

Academic Research and Development Expenditures: Fiscal Year 2004

Detailed Statistical Tables

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CONTENTS

<i>Section</i>	<i>Page</i>
GENERAL NOTES	1
DETAILED STATISTICAL TABLES	2
APPENDIX A: TECHNICAL NOTES	426
Scope of the Survey	427
FY 2004 Survey Frame Design	428
Survey Instrument	428
Response Rate	429
National Total and Imputation	429
Changes in Basic Research Totals	430
Item 1a Analysis	431
Item 1b Analysis	432
Item 2a Analysis	433
Item 2b Analysis	433
Data Anomalies	434
Data Availability	434
APPENDIX B: FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS: FY 2004	435
APPENDIX C: SURVEY INSTRUMENTS	

GENERAL NOTES

The data presented in this report were compiled from the National Science Foundation (NSF) fiscal year 2004 Survey of Research and Development Expenditures at Universities and Colleges (academic R&D expenditures survey). The survey asks universities and colleges to report their separately budgeted R&D expenditures within science and engineering (S&E) fields. Unless noted differently, expenditures analyzed in this report refer to S&E R&D activities only. Non-S&E expenditures are reported separately and are not included in the overall expenditure totals. Terms used in institutional accounting procedures are incorporated throughout the tables and are defined below.

Separately budgeted R&D expenditures include all funds expended for activities that are specifically organized to produce research outcomes. These activities are either commissioned by an agency external to the institution or are separately budgeted by an organizational unit within the institution. *Expenditures* are funds actually spent by an institution during its fiscal year. *Separately budgeted R&D equipment purchased from current funds* includes all research equipment purchased under sponsored research project awards.

Federally funded research and development centers (FFRDCs) are R&D-performing organizations that range from traditional contractor-owned/contractor-operated or government-owned/contractor-operated organizational structures to various degrees of contractor/government control and ownership. FFRDCs are formed to achieve particular federal R&D objectives that cannot be met as effectively by existing organizations.

Imputation and imputed data refer to the computerized process by which NSF develops estimates of data

when institutions do not furnish information upon request. Estimates are based primarily on key data items reported in prior-year surveys. When these key data items are not available, estimates are derived from data of respondent institutions that have similar characteristics, including highest degree granted and type of institutional control (public or private). In this publication, the letter “i” is used to identify imputed data. The letter “e” is used when institutional respondents indicated that their data were estimated or when data required slight mathematical adjustments.

Data presented in trend tables are from the most recently completed survey cycle. Prior-year data have been reviewed for consistency with current-year responses and, when necessary, were revised in consultation with institutional respondents. Institutions revise data from previous years when important changes occur in reporting practices and program classifications, and only the latest tables incorporate such changes. To obtain accurate historical data, use only the latest detailed statistical tables for FY 2004 and not data published earlier.

Requests for additional information concerning the survey findings for the current or prior surveys should be directed to

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DETAILED STATISTICAL TABLES

<i>Table</i>	<i>Page</i>
UNIVERSITIES AND COLLEGES	
R&D EXPENDITURES	
1. R&D expenditures at universities and colleges, by source of funds: FY 1953–2004	8
2. R&D expenditures at universities and colleges, by character of work: FY 1953–2004	10
3. Federally financed R&D expenditures at universities and colleges, by character of work: FY 1953–2004	12
R&D EXPENDITURES, BY SOURCE OF FUNDS AND SCIENCE AND ENGINEERING FIELD	
4. R&D expenditures at universities and colleges, by source of funds and science and engineering field: FY 1997–2004	14
5. Federally financed R&D expenditures at universities and colleges, by science and engineering field: FY 1997–2004	15
6. Nonfederal R&D expenditures at universities and colleges, by science and engineering field: FY 1997–2004	16
7. R&D expenditures at public universities and colleges, by source of funds and science and engineering field: FY 1997–2004	17
8. Federally financed R&D expenditures at public universities and colleges, by science and engineering field: FY 1997–2004	18
9. Nonfederal R&D expenditures at public universities and colleges, by science and engineering field: FY 1997–2004	19
10. R&D expenditures at private universities and colleges, by source of funds and science and engineering field: FY 1997–2004	20
11. Federally financed R&D expenditures at private universities and colleges, by science and engineering field: FY 1997–2004	21
12. Nonfederal R&D expenditures at private universities and colleges, by science and engineering field: FY 1997–2004	22
R&D EXPENDITURES AT HISTORICALLY BLACK COLLEGES AND UNIVERSITIES, BY SOURCE OF FUNDS AND SCIENCE AND ENGINEERING FIELD	
13. R&D expenditures at historically black colleges and universities, by source of funds and science and engineering field: FY 1997–2004	23
14. Federally financed R&D expenditures at historically black colleges and universities, by science and engineering field: FY 1997–2004	24

<i>Table</i>	<i>Page</i>
15. Nonfederal R&D expenditures at historically black colleges and universities, by science and engineering field: FY 1997–2004	25
16. Total and federally financed R&D expenditures at historically black colleges and universities, ranked by FY 2004 total: FY 2001–04	26

GEOGRAPHIC DISTRIBUTION OF R&D EXPENDITURES

17. R&D expenditures at universities and colleges, by geographic division, state, and source of funds: FY 2004	28
18. R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004.....	30
19. Federally financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004	32
20. State and local government-financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004	34
21. Industry-financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004	36
22. Institutionally financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004	38
23. All other sources of financing for R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004	40
24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004.....	42
25. R&D expenditures at universities and colleges, by geographic division, state, and science and engineering field: FY 2004	57
26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004	59

R&D EXPENDITURES, IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION

27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004	80
28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004	96
29. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004	112

<i>Table</i>	<i>Page</i>
30. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by source of funds: FY 2004	118
31. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by source of funds: FY 2004	122
32. R&D expenditures at private universities and colleges, ranked by all R&D expenditures for the first 100 institutions, by source of funds: FY 2004	125
33. Industry-financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004	128
34. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004	132
35. Federally financed R&D expenditures at universities and colleges, ranked by federal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004	138
36. Nonfederal R&D expenditures at universities and colleges, ranked by nonfederal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004	144
37. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by science and engineering field: FY 2004	150
38. Federally financed R&D expenditures at public universities and colleges, ranked by federal R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004	155
39. R&D expenditures at private universities and colleges, ranked by all R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004	158
40. Federally financed R&D expenditures at private universities and colleges, ranked by federal R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004	161
 R&D EXPENDITURES PASSED THROUGH TO SUBRECIPIENTS AND R&D EXPENDITURES RECEIVED AS A SUBRECIPIENT	
41. Total and federally financed academic R&D expenditures passed through to subrecipients: FY 2004	164
42. Total and federally financed academic R&D expenditures received as a subrecipient: FY 2004	165
43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004	166
44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004	181

R&D EXPENDITURES, BY SCIENCE AND ENGINEERING FIELD AND SELECTED SUBFIELDS,
IN DESCENDING ORDER OF AMOUNTS, BY INSTITUTION

45. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04.....	196
46. R&D expenditures in the environmental sciences at universities and colleges, ranked by all FY 2004 environmental sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004.....	199
47. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by all FY 2004 environmental sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004.....	202
48. R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004.....	205
49. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004.....	209
50. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04.....	213
51. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04.....	216
52. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04.....	219
53. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04.....	222
54. R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004.....	225
55. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004.....	228
56. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04.....	231
57. Total and federally financed R&D expenditures in physics at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04.....	234
58. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04.....	237

<i>Table</i>	<i>Page</i>
59. R&D expenditures in the social sciences at universities and colleges, ranked by all FY 2004 social sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004	240
60. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by all FY 2004 social sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004.....	243
61. Total and federally financed R&D expenditures in engineering at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04	246
62. R&D expenditures in engineering subfields at universities and colleges, ranked by all R&D expenditures in subfields for the first 100 institutions: FY 2004	249
63. Federally financed R&D expenditures in engineering subfields at universities and colleges, ranked by all R&D expenditures in subfields for the first 100 institutions: FY 2004	252
 R&D EXPENDITURES IN NON-SCIENCE AND ENGINEERING FIELDS	
64. Non-S&E R&D expenditures at universities and colleges reporting non-S&E R&D, by highest degree granted and institutional control: FY 2004	255
65. Non-S&E R&D expenditures at universities and colleges reporting non-S&E R&D, by field: FY 2004	256
66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004	257
67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004	271
 FEDERALLY FINANCED R&D EXPENDITURES, BY FEDERAL AGENCY	
68. Federally financed R&D expenditures at universities and colleges reporting federal agency R&D, by highest degree granted, institutional control, and federal agency: FY 2004	285
69. Federally financed R&D expenditures at universities and colleges, by science and engineering field and federal agency: FY 2004.....	286
70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004	287
71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004	301
72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004	315
73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004	329

<i>Table</i>	<i>Page</i>
74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004	343
75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004	358
76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004	373
77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004	387
78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004	401
 CURRENT FUND EXPENDITURES FOR RESEARCH EQUIPMENT, BY SCIENCE AND ENGINEERING FIELD AND SOURCE OF FUNDS	
79. Current fund expenditures for research equipment at universities and colleges, by science and engineering field and source of funds: FY 2003–04	415
80. Current fund expenditures for research equipment at universities and colleges, by science and engineering field, source of funds, and institutional control: FY 2004	416
81. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04	417
 FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS	
82. R&D expenditures at university-administered federally funded research and development centers, by character of work: FY 1953–2004	420
83. R&D expenditures at all federally funded research and development centers, by source of funds and type of FFRDC: FY 2004	422
84. Total and federally financed R&D expenditures at university-administered federally funded research and development centers, ranked by FY 2004 total: FY 2001–04	423
85. Total and federally financed R&D expenditures at nonprofit-administered federally funded research and development centers, ranked by FY 2004 total: FY 2001–04	424
86. Total and federally financed R&D expenditures at industry-administered federally funded research and development centers, ranked by FY 2004 total: FY 2001–04	425

TABLE 1. R&D expenditures at universities and colleges, by source of funds: FY 1953–2004
(Dollars in millions)

Fiscal year	All R&D expenditures	Source of funds				
		Federal government	State and local government	Industry	Institutional funds	All other sources
1953	255	138	37	19	35	26
1954	290	160	42	22	38	28
1955	312	169	47	25	41	30
1956	372	213	53	29	43	34
1957	410	229	60	34	49	38
1958	456	254	68	39	53	42
1959	526	306	76	39	58	47
1960	646	405	85	40	64	52
1961	763	500	95	40	70	58
1962	904	613	106	40	79	66
1963	1,081	760	118	41	89	73
1964	1,275	917	132	40	103	83
1965	1,474	1,073	143	41	124	93
1966	1,715	1,261	156	42	148	108
1967	1,921	1,409	164	48	181	119
1968	2,149	1,572	172	55	218	132
1969	2,225	1,600	197	60	223	145
1970	2,335	1,647	219	61	243	165
1971	2,500	1,724	255	70	274	177
1972	2,630	1,795	269	74	305	187
1973	2,884	1,985	295	84	318	202
1974	3,022	2,032	308	95	368	219
1975	3,409	2,288	332	113	417	259
1976	3,729	2,512	364	123	446	285
1977	4,067	2,726	374	139	514	314
1978 ^a	4,625	3,059	414	170	623	359
1979	5,366	3,598	472	193	735	368
1980	6,063	4,098	491	236	835	403
1981	6,847	4,571	546	291	1,004	435
1982	7,324	4,768	616	337	1,111	491
1983	7,882	4,989	626	389	1,302	576
1984	8,620	5,431	690	475	1,411	613
1985	9,687	6,064	752	560	1,617	694
1986	10,928	6,712	915	700	1,869	732
1987	12,153	7,343	1,023	790	2,168	828
1988	13,463	8,193	1,106	872	2,356	935
1989	14,977	8,991	1,224	994	2,698	1,071
1990	16,286	9,638	1,324	1,127	3,006	1,191
1991	17,585	10,234	1,474	1,204	3,367	1,307
1992	18,818	11,093	1,491	1,279	3,547	1,409
1993	19,951	11,957	1,559	1,360	3,589	1,486
1994	21,028	12,650	1,554	1,422	3,827	1,574
1995	22,171	13,332	1,689	1,489	4,047	1,613
1996	23,047	13,841	1,811	1,605	4,171	1,619
1997	24,371	14,315	1,909	1,737	4,698	1,712
1998	25,856	15,151	1,944	1,888	5,003	1,870
1999	27,531	16,102	2,021	2,033	5,381	1,994
2000	30,069	17,536	2,200	2,156	5,924	2,254
2001	32,794	19,222	2,320	2,220	6,607	2,425
2002	36,367	21,863	2,505	2,187	7,126	2,687

TABLE 1. R&D expenditures at universities and colleges, by source of funds: FY 1953–2004
(Dollars in millions)

Fiscal year	All R&D expenditures	Source of funds				
		Federal government	State and local government	Industry	Institutional funds	All other sources
2003	40,057	24,744	2,650	2,163	7,659	2,842
2004	42,945	27,379	2,847	2,107	7,771	2,841

^a FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 2. R&D expenditures at universities and colleges, by character of work: FY 1953–2004
(Dollars in millions)

Fiscal year	All R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
1953	255	110	43.1	145	56.9
1954	290	136	46.9	154	53.1
1955	312	159	51.0	153	49.0
1956	372	200	53.8	172	46.2
1957	410	240	58.5	170	41.5
1958	456	281	61.6	175	38.4
1959	526	343	65.2	183	34.8
1960	646	433	67.0	213	33.0
1961	763	536	70.2	227	29.8
1962	904	659	72.9	245	27.1
1963	1,081	814	75.3	267	24.7
1964	1,275	1,003	78.7	272	21.3
1965	1,474	1,138	77.2	336	22.8
1966	1,715	1,303	76.0	412	24.0
1967	1,921	1,457	75.8	464	24.2
1968	2,149	1,650	76.8	499	23.2
1969	2,225	1,711	76.9	514	23.1
1970	2,335	1,796	76.9	539	23.1
1971	2,500	1,914	76.6	586	23.4
1972	2,630	2,022	76.9	608	23.1
1973	2,884	2,053	71.2	831	28.8
1974	3,022	2,153	71.2	869	28.8
1975	3,409	2,410	70.7	999	29.3
1976	3,729	2,549	68.4	1,180	31.6
1977	4,067	2,800	68.8	1,267	31.2
1978 ^a	4,625	NA	NA	NA	NA
1979	5,366	3,619	67.4	1,747	32.6
1980	6,063	4,036	66.6	2,026	33.4
1981	6,847	4,594	67.1	2,253	32.9
1982	7,324	4,879	66.6	2,445	33.4
1983	7,882	5,303	67.3	2,579	32.7
1984	8,620	5,733	66.5	2,887	33.5
1985	9,687	6,556	67.7	3,131	32.3
1986	10,928	7,492	68.6	3,435	31.4
1987	12,153	8,393	69.1	3,760	30.9
1988	13,463	8,894	66.1	4,569	33.9
1989	14,977	9,792	65.4	5,185	34.6
1990	16,286	10,643	65.4	5,643	34.6
1991	17,585	11,606	66.0	5,979	34.0
1992	18,818	12,516	66.5	6,302	33.5
1993	19,951	13,303	66.7	6,648	33.3
1994	21,028	13,987	66.5	7,041	33.5
1995	22,171	14,809	66.8	7,362	33.2
1996	23,047	15,479	67.2	7,567	32.8
1997	24,371	16,600	68.1	7,771	31.9
1998	25,856	19,048	73.7	6,808	26.3
1999	27,531	20,365	74.0	7,166	26.0
2000	30,069	22,453	74.7	7,616	25.3
2001	32,794	24,372	74.3	8,422	25.7
2002	36,367	27,276	75.0	9,091	25.0

TABLE 2. R&D expenditures at universities and colleges, by character of work: FY 1953–2004

(Dollars in millions)

Fiscal year	All R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
2003	40,057	29,961	74.8	10,095	25.2
2004	42,945	32,308	75.2	10,638	24.8

NA = not available.

^a Separate data for basic research and applied research and development were not collected for FY 1978.

NOTES: R&D expenditures by character of work are based on estimates of basic research provided by universities and colleges. Because of rounding, detail may not add to total. The character of work estimation procedure was revised for FY 1998 and later years; hence, these data are not directly comparable with data for 1997 and earlier years.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 3. Federally financed R&D expenditures at universities and colleges, by character of work: FY 1953–2004
(Dollars in millions)

Fiscal year	All federal R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
1953	138	NA	NA	NA	NA
1954	160	NA	NA	NA	NA
1955	169	NA	NA	NA	NA
1956	213	NA	NA	NA	NA
1957	229	NA	NA	NA	NA
1958	254	NA	NA	NA	NA
1959	306	NA	NA	NA	NA
1960	405	NA	NA	NA	NA
1961	500	NA	NA	NA	NA
1962	613	NA	NA	NA	NA
1963	760	NA	NA	NA	NA
1964	917	NA	NA	NA	NA
1965	1,073	NA	NA	NA	NA
1966	1,261	NA	NA	NA	NA
1967	1,409	NA	NA	NA	NA
1968	1,572	NA	NA	NA	NA
1969	1,600	NA	NA	NA	NA
1970	1,647	NA	NA	NA	NA
1971	1,724	NA	NA	NA	NA
1972	1,795	1,420	79.1	375	20.9
1973	1,985	1,454	73.2	531	26.8
1974	2,032	1,523	75.0	509	25.0
1975	2,288	1,695	74.1	593	25.9
1976	2,512	1,841	73.3	671	26.7
1977	2,726	2,007	73.6	719	26.4
1978 ^a	3,059	NA	NA	NA	NA
1979	3,598	2,577	71.6	1,022	28.4
1980	4,098	2,861	69.8	1,237	30.2
1981	4,571	3,260	71.3	1,311	28.7
1982	4,768	3,402	71.3	1,367	28.7
1983	4,989	3,547	71.1	1,442	28.9
1984	5,431	3,830	70.5	1,601	29.5
1985	6,064	4,343	71.6	1,722	28.4
1986	6,712	4,868	72.5	1,844	27.5
1987	7,343	5,375	73.2	1,968	26.8
1988	8,193	5,678	69.3	2,515	30.7
1989	8,991	6,195	68.9	2,796	31.1
1990	9,638	6,648	69.0	2,990	31.0
1991	10,234	7,127	69.6	3,107	30.4
1992	11,093	7,718	69.6	3,375	30.4
1993	11,957	8,398	70.2	3,559	29.8
1994	12,650	8,878	70.2	3,772	29.8
1995	13,332	9,398	70.5	3,934	29.5
1996	13,841	9,867	71.3	3,973	28.7
1997	14,315	10,314	72.1	4,000	27.9
1998	15,151	11,855	78.2	3,296	21.8
1999	16,102	12,657	78.6	3,444	21.4
2000	17,536	13,838	78.9	3,698	21.1
2001	19,222	15,031	78.2	4,191	21.8
2002	21,863	17,195	78.6	4,668	21.4

TABLE 3. Federally financed R&D expenditures at universities and colleges, by character of work: FY 1953–2004
(Dollars in millions)

Fiscal year	All federal R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
2003	24,744	19,509	78.8	5,235	21.2
2004	27,379	21,627	79.0	5,752	21.0

NA = not available.

^a Separate data for basic research and applied research and development were not collected for FY 1978.

NOTES: R&D expenditures by character of work are based on estimates of basic research provided by universities and colleges. Because of rounding, detail may not add to total. The character of work estimation procedure was revised for FY 1998 and later years; hence, these data are not directly comparable with data for 1997 and earlier years.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 4. R&D expenditures at universities and colleges, by source of funds and science and engineering field: FY 1997–2004

(Dollars in thousands)

Source and field	1997	1998	1999	2000	2001	2002	2003	2004
All R&D expenditures	24,370,716	25,856,006	27,530,968	30,068,664	32,793,818	36,367,358	40,056,637	42,945,081
Source of funds								
Federal government	14,314,924	15,151,228	16,101,914	17,535,692	19,222,037	21,862,995	24,743,653	27,379,233
State and local government	1,909,299	1,943,946	2,021,280	2,199,603	2,320,195	2,505,086	2,649,552	2,846,722
Industry	1,736,793	1,888,299	2,032,727	2,155,741	2,219,791	2,186,906	2,162,963	2,107,322
Institutional funds	4,697,958	5,002,634	5,380,923	5,923,665	6,606,735	7,125,556	7,658,875	7,771,253
All other sources	1,711,742	1,869,899	1,994,124	2,253,963	2,425,060	2,686,815	2,841,594	2,840,551
Field								
Science	20,531,359	21,786,486	23,269,670	25,513,865	27,774,815	30,845,883	34,063,861	36,633,054
Computer sciences	709,527	746,651	861,064	876,398	956,017	1,125,344	1,304,617	1,404,509
Environmental sciences	1,532,900	1,624,511	1,691,787	1,765,345	1,831,387	2,019,481	2,190,230	2,354,063
Atmospheric sciences	245,509	269,180	287,860	287,842	301,416	340,945	395,804	415,645
Earth sciences	449,775	513,620	545,513	562,974	555,110	640,472	724,335	829,609
Oceanography	536,706	545,680	604,173	633,021	675,300	720,371	765,574	776,498
Environmental sciences, nec	300,910	296,031	254,241	281,508	299,561	317,693	304,517	332,311
Life sciences	13,591,422	14,596,872	15,630,121	17,468,638	19,214,458	21,421,027	23,745,699	25,650,300
Agricultural sciences	1,966,202	1,995,736	2,035,689	2,177,086	2,325,084	2,452,650	2,552,331	2,694,818
Biological sciences	4,183,527	4,584,501	5,039,407	5,619,030	5,945,428	6,580,230	7,379,172	7,840,436
Medical sciences	6,907,897	7,471,786	8,003,094	8,986,474	10,190,874	11,501,237	12,787,242	14,040,677
Life sciences, nec	533,796	544,849	551,931	686,048	753,072	886,910	1,026,954	1,074,369
Mathematical sciences	289,621	310,536	313,493	341,454	359,826	388,155	428,494	449,968
Physical sciences	2,371,338	2,483,327	2,605,426	2,711,754	2,804,084	3,018,150	3,277,029	3,545,031
Astronomy	287,601	302,652	384,518	385,564	378,196	402,327	392,048	420,254
Chemistry	820,842	876,340	919,176	961,279	1,007,299	1,130,787	1,227,116	1,316,897
Physics	1,058,635	1,078,600	1,149,230	1,207,356	1,240,452	1,286,481	1,417,777	1,522,134
Physical sciences, nec	204,260	225,735	152,502	157,555	178,137	198,555	240,088	285,746
Psychology	396,317	444,463	464,447	516,536	582,789	671,963	768,615	782,481
Social sciences	1,125,441	1,131,450	1,251,925	1,298,957	1,441,089	1,584,963	1,659,148	1,669,746
Economics	260,757	261,098	266,421	255,206	271,581	283,768	313,106	316,615
Political sciences	175,498	175,559	200,329	229,950	253,402	272,063	289,288	301,938
Sociology	257,394	252,878	271,443	301,100	328,229	377,579	370,101	355,429
Social sciences, nec	431,792	441,915	513,732	512,701	587,877	651,553	686,653	695,764
Sciences, nec	514,793	448,676	451,407	534,783	585,165	616,800	690,029	776,956
Engineering	3,839,357	4,069,520	4,261,298	4,554,799	5,019,003	5,521,475	5,992,776	6,312,027
Aeronautical/astronautical engineering	247,129	249,888	260,590	256,759	339,180	342,928	402,023	439,923
Bioengineering/biomedical engineering	76,791	101,957	136,564	173,710	212,574	281,854	313,504	369,848
Chemical engineering	316,672	327,080	349,020	375,709	414,477	430,741	453,277	493,353
Civil engineering	471,818	494,843	529,269	600,892	664,262	717,172	776,059	789,257
Electrical engineering	942,123	1,042,528	1,016,886	1,118,093	1,163,652	1,305,814	1,400,544	1,437,535
Mechanical engineering	517,735	567,878	625,353	632,552	686,953	780,010	820,995	867,475
Metallurgical/materials engineering	388,828	391,397	384,010	399,350	452,795	467,970	548,232	564,968
Engineering, nec	878,261	893,949	959,606	997,734	1,085,110	1,194,986	1,278,142	1,349,668

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 5. Federally financed R&D expenditures at universities and colleges, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All federal R&D expenditures	14,314,924	15,151,228	16,101,914	17,535,692	19,222,037	21,862,995	24,743,653	27,379,233
Science	12,058,821	12,797,230	13,654,819	14,956,559	16,370,979	18,633,112	21,134,161	23,476,902
Computer sciences	506,424	513,551	583,296	583,627	644,268	770,302	936,700	1,027,929
Environmental sciences	1,012,544	1,076,593	1,102,618	1,134,234	1,185,978	1,292,052	1,442,489	1,595,993
Atmospheric sciences	186,622	209,549	223,164	223,016	232,974	250,017	297,474	322,355
Earth sciences	269,144	312,220	321,260	331,680	329,225	370,103	440,051	534,609
Oceanography	355,498	362,204	405,324	422,511	448,624	486,563	533,771	547,654
Environmental sciences, nec	201,280	192,620	152,870	157,027	175,155	185,369	171,193	191,375
Life sciences	7,764,185	8,333,875	8,957,888	10,068,145	11,194,110	12,856,267	14,645,295	16,413,267
Agricultural sciences	548,427	533,532	545,716	578,745	617,193	689,520	762,311	867,963
Biological sciences	2,685,183	2,938,594	3,224,696	3,657,517	3,871,508	4,410,142	5,016,278	5,503,954
Medical sciences	4,226,951	4,559,321	4,866,044	5,441,885	6,259,561	7,227,829	8,251,009	9,372,273
Life sciences, nec	303,624	302,428	321,432	389,998	445,848	528,776	615,697	669,077
Mathematical sciences	202,096	214,176	210,116	229,918	242,113	268,451	294,994	319,321
Physical sciences	1,683,321	1,761,951	1,863,306	1,915,191	1,972,641	2,132,761	2,356,671	2,566,825
Astronomy	183,154	188,188	272,691	276,743	259,984	277,630	271,502	289,176
Chemistry	551,751	587,040	617,201	630,992	659,757	738,292	820,302	919,489
Physics	803,350	818,027	868,722	902,011	926,913	975,104	1,087,962	1,169,239
Physical sciences, nec	145,066	168,696	104,692	105,445	125,987	141,735	176,905	188,921
Psychology	271,528	298,820	309,616	350,584	398,499	475,251	552,544	586,800
Social sciences	408,749	425,471	472,076	490,691	546,317	616,828	665,054	695,436
Economics	89,803	92,250	90,158	89,179	89,769	99,758	106,376	108,994
Political sciences	51,776	53,124	54,061	62,827	72,195	76,870	91,912	109,700
Sociology	120,614	118,989	122,006	137,002	148,552	180,622	181,634	181,784
Social sciences, nec	146,556	161,108	205,851	201,683	235,801	259,578	285,132	294,958
Sciences, nec	209,974	172,793	155,903	184,169	187,053	221,200	240,414	271,331
Engineering	2,256,103	2,353,998	2,447,095	2,579,133	2,851,058	3,229,883	3,609,492	3,902,331
Aeronautical/astronautical engineering	183,425	170,888	183,517	181,615	254,868	247,252	305,764	335,815
Bioengineering/biomedical engineering	47,517	56,635	72,261	90,787	120,898	167,333	190,494	235,954
Chemical engineering	165,856	169,276	179,939	196,325	214,862	230,158	248,050	267,553
Civil engineering	200,357	197,086	217,064	236,989	264,701	300,402	326,616	347,335
Electrical engineering	624,291	692,580	651,186	701,022	726,395	819,609	925,066	970,538
Mechanical engineering	322,462	350,741	388,553	383,421	416,496	508,110	532,670	582,222
Metallurgical/materials engineering	222,456	221,691	218,231	226,743	240,875	262,898	313,752	352,238
Engineering, nec	489,739	495,101	536,344	562,231	611,963	694,121	767,080	810,676

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 6. Nonfederal R&D expenditures at universities and colleges, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All nonfederal R&D expenditures	10,055,792	10,704,778	11,429,054	12,532,972	13,571,781	14,504,363	15,312,984	15,565,848
Science	8,472,538	8,989,256	9,614,851	10,557,306	11,403,836	12,212,771	12,929,700	13,156,152
Computer sciences	203,103	233,100	277,768	292,771	311,749	355,042	367,917	376,580
Environmental sciences	520,356	547,918	589,169	631,111	645,409	727,429	747,741	758,070
Atmospheric sciences	58,887	59,631	64,696	64,826	68,442	90,928	98,330	93,290
Earth sciences	180,631	201,400	224,253	231,294	225,885	270,369	284,284	295,000
Oceanography	181,208	183,476	198,849	210,510	226,676	233,808	231,803	228,844
Environmental sciences, nec	99,630	103,411	101,371	124,481	124,406	132,324	133,324	140,936
Life sciences	5,827,237	6,262,997	6,672,233	7,400,493	8,020,348	8,564,760	9,100,404	9,237,033
Agricultural sciences	1,417,775	1,462,204	1,489,973	1,598,341	1,707,891	1,763,130	1,790,020	1,826,855
Biological sciences	1,498,344	1,645,907	1,814,711	1,961,513	2,073,920	2,170,088	2,362,894	2,336,482
Medical sciences	2,680,946	2,912,465	3,137,050	3,544,589	3,931,313	4,273,408	4,536,233	4,668,404
Life sciences, nec	230,172	242,421	230,499	296,050	307,224	358,134	411,257	405,292
Mathematical sciences	87,525	96,360	103,377	111,536	117,713	119,704	133,500	130,647
Physical sciences	688,017	721,376	742,120	796,563	831,443	885,389	920,358	978,206
Astronomy	104,447	114,464	111,827	108,821	118,212	124,697	120,546	131,078
Chemistry	269,091	289,300	301,975	330,287	347,542	392,495	406,814	397,408
Physics	255,285	260,573	280,508	305,345	313,539	311,377	329,815	352,895
Physical sciences, nec	59,194	57,039	47,810	52,110	52,150	56,820	63,183	96,825
Psychology	124,789	145,643	154,831	165,952	184,290	196,712	216,071	195,681
Social sciences	716,692	705,979	779,849	808,266	894,772	968,135	994,094	974,310
Economics	170,954	168,848	176,263	166,027	181,812	184,010	206,730	207,621
Political sciences	123,722	122,435	146,268	167,123	181,207	195,193	197,376	192,238
Sociology	136,780	133,889	149,437	164,098	179,677	196,957	188,467	173,645
Social sciences, nec	285,236	280,807	307,881	311,018	352,076	391,975	401,521	400,806
Sciences, nec	304,819	275,883	295,504	350,614	398,112	395,600	449,615	505,625
Engineering	1,583,254	1,715,522	1,814,203	1,975,666	2,167,945	2,291,592	2,383,284	2,409,696
Aeronautical/astronautical engineering	63,704	79,000	77,073	75,144	84,312	95,676	96,259	104,108
Bioengineering/biomedical engineering	29,274	45,322	64,303	82,923	91,676	114,521	123,010	133,894
Chemical engineering	150,816	157,804	169,081	179,384	199,615	200,583	205,227	225,800
Civil engineering	271,461	297,757	312,205	363,903	399,561	416,770	449,443	441,922
Electrical engineering	317,832	349,948	365,700	417,071	437,257	486,205	475,478	466,997
Mechanical engineering	195,273	217,137	236,800	249,131	270,457	271,900	288,325	285,253
Metallurgical/materials engineering	166,372	169,706	165,779	172,607	211,920	205,072	234,480	212,730
Engineering, nec	388,522	398,848	423,262	435,503	473,147	500,865	511,062	538,992

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 7. R&D expenditures at public universities and colleges, by source of funds and science and engineering field: FY 1997–2004

(Dollars in thousands)

Source and field	1997	1998	1999	2000	2001	2002	2003	2004
All R&D expenditures	16,424,522	17,478,696	18,659,556	20,512,338	22,402,874	24,872,519	27,344,429	29,292,010
Source of funds								
Federal government	8,570,877	9,072,312	9,716,099	10,653,651	11,717,336	13,394,141	15,299,066	16,948,937
State and local government	1,741,778	1,773,264	1,844,360	2,004,958	2,084,626	2,254,018	2,362,253	2,560,040
Industry	1,175,763	1,279,648	1,339,691	1,439,676	1,478,621	1,470,065	1,459,435	1,441,761
Institutional funds	3,888,182	4,215,200	4,544,478	4,987,925	5,592,329	6,011,058	6,387,347	6,478,379
All other sources	1,047,922	1,138,272	1,214,928	1,426,128	1,529,962	1,743,237	1,836,328	1,862,893
Field								
Science	13,737,584	14,612,139	15,612,400	17,217,777	18,763,158	20,894,136	23,075,516	24,808,074
Computer sciences	349,682	398,657	488,767	526,609	572,667	665,996	825,937	902,668
Environmental sciences	1,225,620	1,284,009	1,357,833	1,424,307	1,490,803	1,651,948	1,779,587	1,896,244
Atmospheric sciences	213,054	228,106	236,304	234,125	246,696	286,214	330,531	334,134
Earth sciences	334,796	380,881	421,657	447,624	443,773	518,980	593,604	684,459
Oceanography	487,361	490,213	512,844	543,480	583,823	611,976	647,343	648,790
Environmental sciences, nec	190,409	184,809	187,028	199,078	216,511	234,778	208,109	228,861
Life sciences	8,983,666	9,638,543	10,268,407	11,484,713	12,611,842	14,091,457	15,594,275	16,862,248
Agricultural sciences	1,905,748	1,930,706	1,979,307	2,115,751	2,251,769	2,374,772	2,469,362	2,608,435
Biological sciences	2,621,833	2,889,083	3,201,436	3,587,051	3,706,952	4,158,185	4,718,933	4,976,672
Medical sciences	4,138,098	4,494,943	4,767,245	5,351,854	6,154,637	6,956,170	7,696,195	8,522,361
Life sciences, nec	317,987	323,811	320,419	430,057	498,484	602,330	709,785	754,780
Mathematical sciences	178,214	196,137	195,130	215,046	234,472	259,261	288,490	295,117
Physical sciences	1,501,868	1,586,415	1,677,097	1,803,767	1,874,163	2,034,980	2,186,760	2,362,500
Astronomy	188,049	206,684	230,722	244,294	244,189	267,652	261,423	269,630
Chemistry	557,719	587,930	623,243	673,222	715,257	826,168	893,514	956,235
Physics	628,276	647,426	755,085	809,553	831,695	850,801	930,168	1,001,564
Physical sciences, nec	127,824	144,375	68,047	76,698	83,022	90,359	101,655	135,071
Psychology	298,747	333,273	344,669	381,672	434,047	498,010	568,073	568,059
Social sciences	854,273	873,359	971,883	1,000,433	1,128,655	1,249,456	1,332,171	1,328,005
Economics	206,754	208,011	217,311	205,916	228,961	239,634	269,361	269,584
Political sciences	110,892	109,471	122,315	139,216	151,884	152,745	178,520	172,801
Sociology	197,006	194,785	202,841	223,818	249,513	298,526	291,333	277,411
Social sciences, nec	339,621	361,092	429,416	431,483	498,297	558,551	592,957	608,209
Sciences, nec	345,514	301,746	308,614	381,230	416,509	443,028	500,223	593,233
Engineering	2,686,938	2,866,557	3,047,156	3,294,561	3,639,716	3,978,383	4,268,913	4,483,936
Aeronautical/astronautical engineering	154,599	155,112	188,634	179,401	244,810	239,945	283,159	317,000
Bioengineering/biomedical engineering	52,227	62,102	79,067	106,507	134,764	184,945	185,513	213,066
Chemical engineering	237,034	245,193	254,752	272,616	300,274	317,451	334,786	371,960
Civil engineering	399,490	425,828	447,661	509,503	563,038	604,986	654,825	665,827
Electrical engineering	626,078	714,152	712,885	785,191	815,664	921,943	989,830	1,023,002
Mechanical engineering	332,315	368,121	414,864	419,293	453,824	521,656	543,780	578,029
Metallurgical/materials engineering	289,409	281,720	277,709	296,003	345,897	351,944	408,525	410,956
Engineering, nec	595,786	614,329	671,584	726,047	781,445	835,513	868,495	904,096

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 8. Federally financed R&D expenditures at public universities and colleges, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All federal R&D expenditures	8,570,877	9,072,312	9,716,099	10,653,651	11,717,336	13,394,141	15,299,066	16,948,937
Science	7,198,482	7,630,998	8,193,826	9,019,977	9,886,990	11,340,836	13,022,687	14,491,211
Computer sciences	209,821	230,433	285,441	306,282	335,431	396,938	547,439	606,295
Environmental sciences	753,513	788,094	824,531	852,972	905,909	991,152	1,114,011	1,211,654
Atmospheric sciences	156,847	172,048	176,327	174,976	185,260	202,386	240,651	247,026
Earth sciences	172,399	200,834	221,706	242,138	243,328	275,556	338,486	415,674
Oceanography	313,399	313,823	324,574	341,318	365,326	390,907	432,853	437,512
Environmental sciences, nec	110,868	101,389	101,924	94,540	111,995	122,303	102,021	111,442
Life sciences	4,562,971	4,873,519	5,241,285	5,860,863	6,495,943	7,532,779	8,673,785	9,777,641
Agricultural sciences	521,933	508,316	528,466	560,303	594,606	665,849	734,316	836,959
Biological sciences	1,531,391	1,672,990	1,857,214	2,138,422	2,196,886	2,551,679	2,968,099	3,236,476
Medical sciences	2,345,951	2,546,439	2,699,819	2,957,029	3,449,475	4,003,350	4,600,062	5,294,393
Life sciences, nec	163,696	145,774	155,786	205,109	254,976	311,901	371,308	409,813
Mathematical sciences	107,071	115,756	109,975	123,752	135,301	158,707	177,272	186,959
Physical sciences	946,175	1,003,504	1,056,890	1,138,295	1,182,348	1,302,906	1,430,169	1,559,973
Astronomy	98,611	110,243	128,855	144,684	138,802	155,898	155,415	158,603
Chemistry	349,933	361,584	382,765	411,160	438,923	509,423	567,153	636,849
Physics	416,618	429,547	512,840	547,439	559,680	590,735	652,475	706,236
Physical sciences, nec	81,013	102,130	32,430	35,012	44,943	46,850	55,126	58,285
Psychology	198,733	216,081	219,864	248,366	282,645	338,762	394,109	414,808
Social sciences	294,478	310,748	355,445	365,892	412,279	472,401	523,528	543,258
Economics	64,862	65,795	68,404	68,565	71,322	81,595	85,948	86,132
Political sciences	27,415	28,447	29,585	31,117	36,955	35,982	54,675	62,675
Sociology	87,852	85,646	84,473	97,361	110,330	138,273	137,830	136,164
Social sciences, nec	114,349	130,860	172,983	168,849	193,672	216,551	245,075	258,287
Sciences, nec	125,720	92,863	100,395	123,555	137,134	147,191	162,374	190,623
Engineering	1,372,395	1,441,314	1,522,273	1,633,674	1,830,346	2,053,305	2,276,379	2,457,726
Aeronautical/astronautical engineering	100,864	96,801	121,651	116,136	175,878	159,042	206,861	230,717
Bioengineering/biomedical engineering	29,111	26,487	29,590	41,335	63,826	96,985	93,091	118,822
Chemical engineering	113,651	116,970	119,598	130,777	141,520	152,024	167,613	182,347
Civil engineering	155,174	156,426	168,424	180,910	204,721	228,479	249,663	266,609
Electrical engineering	377,082	433,080	416,135	452,438	463,124	525,014	595,808	632,793
Mechanical engineering	178,956	192,166	223,369	218,523	240,239	306,760	318,447	348,739
Metallurgical/materials engineering	148,402	146,223	141,003	152,143	169,057	179,770	212,375	238,334
Engineering, nec	269,155	273,161	302,503	341,412	371,981	405,231	432,521	439,365

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 9. Nonfederal R&D expenditures at public universities and colleges, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All nonfederal R&D expenditures	7,853,645	8,406,384	8,943,457	9,858,687	10,685,538	11,478,378	12,045,363	12,343,073
Science	6,539,102	6,981,141	7,418,574	8,197,800	8,876,168	9,553,300	10,052,829	10,316,863
Computer sciences	139,861	168,224	203,326	220,327	237,236	269,058	278,498	296,373
Environmental sciences	472,107	495,915	533,302	571,335	584,894	660,796	665,576	684,590
Atmospheric sciences	56,207	56,058	59,977	59,149	61,436	83,828	89,880	87,108
Earth sciences	162,397	180,047	199,951	205,486	200,445	243,424	255,118	268,785
Oceanography	173,962	176,390	188,270	202,162	218,497	221,069	214,490	211,278
Environmental sciences, nec	79,541	83,420	85,104	104,538	104,516	112,475	106,088	117,419
Life sciences	4,420,695	4,765,024	5,027,122	5,623,850	6,115,899	6,558,678	6,920,490	7,084,607
Agricultural sciences	1,383,815	1,422,390	1,450,841	1,555,448	1,657,163	1,708,923	1,735,046	1,771,476
Biological sciences	1,090,442	1,216,093	1,344,222	1,448,629	1,510,066	1,606,506	1,750,834	1,740,196
Medical sciences	1,792,147	1,948,504	2,067,426	2,394,825	2,705,162	2,952,820	3,096,133	3,227,968
Life sciences, nec	154,291	178,037	164,633	224,948	243,508	290,429	338,477	344,967
Mathematical sciences	71,143	80,381	85,155	91,294	99,171	100,554	111,218	108,158
Physical sciences	555,693	582,911	620,207	665,472	691,815	732,074	756,591	802,527
Astronomy	89,438	96,441	101,867	99,610	105,387	111,754	106,008	111,027
Chemistry	207,786	226,346	240,478	262,062	276,334	316,745	326,361	319,386
Physics	211,658	217,879	242,245	262,114	272,015	260,066	277,693	295,328
Physical sciences, nec	46,811	42,245	35,617	41,686	38,079	43,509	46,529	76,786
Psychology	100,014	117,192	124,805	133,306	151,402	159,248	173,964	153,251
Social sciences	559,795	562,611	616,438	634,541	716,376	777,055	808,643	784,747
Economics	141,892	142,216	148,907	137,351	157,639	158,039	183,413	183,452
Political sciences	83,477	81,024	92,730	108,099	114,929	116,763	123,845	110,126
Sociology	109,154	109,139	118,368	126,457	139,183	160,253	153,503	141,247
Social sciences, nec	225,272	230,232	256,433	262,634	304,625	342,000	347,882	349,922
Sciences, nec	219,794	208,883	208,219	257,675	279,375	295,837	337,849	402,610
Engineering	1,314,543	1,425,243	1,524,883	1,660,887	1,809,370	1,925,078	1,992,534	2,026,210
Aeronautical/astronautical engineering	53,735	58,311	66,983	63,265	68,932	80,903	76,298	86,283
Bioengineering/biomedical engineering	23,116	35,615	49,477	65,172	70,938	87,960	92,422	94,244
Chemical engineering	123,383	128,223	135,154	141,839	158,754	165,427	167,173	189,613
Civil engineering	244,316	269,402	279,237	328,593	358,317	376,507	405,162	399,218
Electrical engineering	248,996	281,072	296,750	332,753	352,540	396,929	394,022	390,209
Mechanical engineering	153,359	175,955	191,495	200,770	213,585	214,896	225,333	229,290
Metallurgical/materials engineering	141,007	135,497	136,706	143,860	176,840	172,174	196,150	172,622
Engineering, nec	326,631	341,168	369,081	384,635	409,464	430,282	435,974	464,731

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 10. R&D expenditures at private universities and colleges, by source of funds and science and engineering field: FY 1997–2004

(Dollars in thousands)

Source and field	1997	1998	1999	2000	2001	2002	2003	2004
All R&D expenditures	7,946,194	8,377,310	8,871,412	9,556,326	10,390,944	11,494,839	12,712,208	13,653,071
Source of funds								
Federal government	5,744,047	6,078,916	6,385,815	6,882,041	7,504,701	8,468,854	9,444,587	10,430,296
State and local government	167,521	170,682	176,920	194,645	235,569	251,068	287,299	286,682
Industry	561,030	608,651	693,036	716,065	741,170	716,841	703,528	665,561
Institutional funds	809,776	787,434	836,445	935,740	1,014,406	1,114,498	1,271,528	1,292,874
All other sources	663,820	731,627	779,196	827,835	895,098	943,578	1,005,266	977,658
Field								
Science	6,793,775	7,174,347	7,657,270	8,296,088	9,011,657	9,951,747	10,988,345	11,824,980
Computer sciences	359,845	347,994	372,297	349,789	383,350	459,348	478,680	501,841
Environmental sciences	307,280	340,502	333,954	341,038	340,584	367,533	410,643	457,819
Atmospheric sciences	32,455	41,074	51,556	53,717	54,720	54,731	65,273	81,511
Earth sciences	114,979	132,739	123,856	115,350	111,337	121,492	130,731	145,150
Oceanography	49,345	55,467	91,329	89,541	91,477	108,395	118,231	127,708
Environmental sciences, nec	110,501	111,222	67,213	82,430	83,050	82,915	96,408	103,450
Life sciences	4,607,756	4,958,329	5,361,714	5,983,925	6,602,616	7,329,570	8,151,424	8,788,052
Agricultural sciences	60,454	65,030	56,382	61,335	73,315	77,878	82,969	86,383
Biological sciences	1,561,694	1,695,418	1,837,971	2,031,979	2,238,476	2,422,045	2,660,239	2,863,764
Medical sciences	2,769,799	2,976,843	3,235,849	3,634,620	4,036,237	4,545,067	5,091,047	5,518,316
Life sciences, nec	215,809	221,038	231,512	255,991	254,588	284,580	317,169	319,589
Mathematical sciences	111,407	114,399	118,363	126,408	125,354	128,894	140,004	154,851
Physical sciences	869,470	896,912	928,329	907,987	929,921	983,170	1,090,269	1,182,531
Astronomy	99,552	95,968	153,796	141,270	134,007	134,675	130,625	150,624
Chemistry	263,123	288,410	295,933	288,057	292,042	304,619	333,602	360,662
Physics	430,359	431,174	394,145	397,803	408,757	435,680	487,609	520,570
Physical sciences, nec	76,436	81,360	84,455	80,857	95,115	108,196	138,433	150,675
Psychology	97,570	111,190	119,778	134,864	148,742	173,953	200,542	214,422
Social sciences	271,168	258,091	280,042	298,524	312,434	335,507	326,977	341,741
Economics	54,003	53,087	49,110	49,290	42,620	44,134	43,745	47,031
Political sciences	64,606	66,088	78,014	90,734	101,518	119,318	110,768	129,137
Sociology	60,388	58,093	68,602	77,282	78,716	79,053	78,768	78,018
Social sciences, nec	92,171	80,823	84,316	81,218	89,580	93,002	93,696	87,555
Sciences, nec	169,279	146,930	142,793	153,553	168,656	173,772	189,806	183,723
Engineering	1,152,419	1,202,963	1,214,142	1,260,238	1,379,287	1,543,092	1,723,863	1,828,091
Aeronautical/astronautical engineering	92,530	94,776	71,956	77,358	94,370	102,983	118,864	122,923
Bioengineering/biomedical engineering	24,564	39,855	57,497	67,203	77,810	96,909	127,991	156,782
Chemical engineering	79,638	81,887	94,268	103,093	114,203	113,290	118,491	121,393
Civil engineering	72,328	69,015	81,608	91,389	101,224	112,186	121,234	123,430
Electrical engineering	316,045	328,376	304,001	332,902	347,988	383,871	410,714	414,533
Mechanical engineering	185,420	199,757	210,489	213,259	233,129	258,354	277,215	289,446
Metallurgical/materials engineering	99,419	109,677	106,301	103,347	106,898	116,026	139,707	154,012
Engineering, nec	282,475	279,620	288,022	271,687	303,665	359,473	409,647	445,572

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 11. Federally financed R&D expenditures at private universities and colleges, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All federal R&D expenditures	5,744,047	6,078,916	6,385,815	6,882,041	7,504,701	8,468,854	9,444,587	10,430,296
Science	4,860,339	5,166,232	5,460,993	5,936,582	6,483,989	7,292,276	8,111,474	8,985,691
Computer sciences	296,603	283,118	297,855	277,345	308,837	373,364	389,261	421,634
Environmental sciences	259,031	288,499	278,087	281,262	280,069	300,900	328,478	384,339
Atmospheric sciences	29,775	37,501	46,837	48,040	47,714	47,631	56,823	75,329
Earth sciences	96,745	111,386	99,554	89,542	85,897	94,547	101,565	118,935
Oceanography	42,099	48,381	80,750	81,193	83,298	95,656	100,918	110,142
Environmental sciences, nec	90,412	91,231	50,946	62,487	63,160	63,066	69,172	79,933
Life sciences	3,201,214	3,460,356	3,716,603	4,207,282	4,698,167	5,323,488	5,971,510	6,635,626
Agricultural sciences	26,494	25,216	17,250	18,442	22,587	23,671	27,995	31,004
Biological sciences	1,153,792	1,265,604	1,367,482	1,519,095	1,674,622	1,858,463	2,048,179	2,267,478
Medical sciences	1,881,000	2,012,882	2,166,225	2,484,856	2,810,086	3,224,479	3,650,947	4,077,880
Life sciences, nec	139,928	156,654	165,646	184,889	190,872	216,875	244,389	259,264
Mathematical sciences	95,025	98,420	100,141	106,166	106,812	109,744	117,722	132,362
Physical sciences	737,146	758,447	806,416	776,896	790,293	829,855	926,502	1,006,852
Astronomy	84,543	77,945	143,836	132,059	121,182	121,732	116,087	130,573
Chemistry	201,818	225,456	234,436	219,832	220,834	228,869	253,149	282,640
Physics	386,732	388,480	355,882	354,572	367,233	384,369	435,487	463,003
Physical sciences, nec	64,053	66,566	72,262	70,433	81,044	94,885	121,779	130,636
Psychology	72,795	82,739	89,752	102,218	115,854	136,489	158,435	171,992
Social sciences	114,271	114,723	116,631	124,799	134,038	144,427	141,526	152,178
Economics	24,941	26,455	21,754	20,614	18,447	18,163	20,428	22,862
Political sciences	24,361	24,677	24,476	31,710	35,240	40,888	37,237	47,025
Sociology	32,762	33,343	37,533	39,641	38,222	42,349	43,804	45,620
Social sciences, nec	32,207	30,248	32,868	32,834	42,129	43,027	40,057	36,671
Sciences, nec	84,254	79,930	55,508	60,614	49,919	74,009	78,040	80,708
Engineering	883,708	912,684	924,822	945,459	1,020,712	1,176,578	1,333,113	1,444,605
Aeronautical/astronautical engineering	82,561	74,087	61,866	65,479	78,990	88,210	98,903	105,098
Bioengineering/biomedical engineering	18,406	30,148	42,671	49,452	57,072	70,348	97,403	117,132
Chemical engineering	52,205	52,306	60,341	65,548	73,342	78,134	80,437	85,206
Civil engineering	45,183	40,660	48,640	56,079	59,980	71,923	76,953	80,726
Electrical engineering	247,209	259,500	235,051	248,584	263,271	294,595	329,258	337,745
Mechanical engineering	143,506	158,575	165,184	164,898	176,257	201,350	214,223	233,483
Metallurgical/materials engineering	74,054	75,468	77,228	74,600	71,818	83,128	101,377	113,904
Engineering, nec	220,584	221,940	233,841	220,819	239,982	288,890	334,559	371,311

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 12. Nonfederal R&D expenditures at private universities and colleges, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All nonfederal R&D expenditures	2,202,147	2,298,394	2,485,597	2,674,285	2,886,243	3,025,985	3,267,621	3,222,775
Science	1,933,436	2,008,115	2,196,277	2,359,506	2,527,668	2,659,471	2,876,871	2,839,289
Computer sciences	63,242	64,876	74,442	72,444	74,513	85,984	89,419	80,207
Environmental sciences	48,249	52,003	55,867	59,776	60,515	66,633	82,165	73,480
Atmospheric sciences	2,680	3,573	4,719	5,677	7,006	7,100	8,450	6,182
Earth sciences	18,234	21,353	24,302	25,808	25,440	26,945	29,166	26,215
Oceanography	7,246	7,086	10,579	8,348	8,179	12,739	17,313	17,566
Environmental sciences, nec	20,089	19,991	16,267	19,943	19,890	19,849	27,236	23,517
Life sciences	1,406,542	1,497,973	1,645,111	1,776,643	1,904,449	2,006,082	2,179,914	2,152,426
Agricultural sciences	33,960	39,814	39,132	42,893	50,728	54,207	54,974	55,379
Biological sciences	407,902	429,814	470,489	512,884	563,854	563,582	612,060	596,286
Medical sciences	888,799	963,961	1,069,624	1,149,764	1,226,151	1,320,588	1,440,100	1,440,436
Life sciences, nec	75,881	64,384	65,866	71,102	63,716	67,705	72,780	60,325
Mathematical sciences	16,382	15,979	18,222	20,242	18,542	19,150	22,282	22,489
Physical sciences	132,324	138,465	121,913	131,091	139,628	153,315	163,767	175,679
Astronomy	15,009	18,023	9,960	9,211	12,825	12,943	14,538	20,051
Chemistry	61,305	62,954	61,497	68,225	71,208	75,750	80,453	78,022
Physics	43,627	42,694	38,263	43,231	41,524	51,311	52,122	57,567
Physical sciences, nec	12,383	14,794	12,193	10,424	14,071	13,311	16,654	20,039
Psychology	24,775	28,451	30,026	32,646	32,888	37,464	42,107	42,430
Social sciences	156,897	143,368	163,411	173,725	178,396	191,080	185,451	189,563
Economics	29,062	26,632	27,356	28,676	24,173	25,971	23,317	24,169
Political sciences	40,245	41,411	53,538	59,024	66,278	78,430	73,531	82,112
Sociology	27,626	24,750	31,069	37,641	40,494	36,704	34,964	32,398
Social sciences, nec	59,964	50,575	51,448	48,384	47,451	49,975	53,639	50,884
Sciences, nec	85,025	67,000	87,285	92,939	118,737	99,763	111,766	103,015
Engineering	268,711	290,279	289,320	314,779	358,575	366,514	390,750	383,486
Aeronautical/astronautical engineering	9,969	20,689	10,090	11,879	15,380	14,773	19,961	17,825
Bioengineering/biomedical engineering	6,158	9,707	14,826	17,751	20,738	26,561	30,588	39,650
Chemical engineering	27,433	29,581	33,927	37,545	40,861	35,156	38,054	36,187
Civil engineering	27,145	28,355	32,968	35,310	41,244	40,263	44,281	42,704
Electrical engineering	68,836	68,876	68,950	84,318	84,717	89,276	81,456	76,788
Mechanical engineering	41,914	41,182	45,305	48,361	56,872	57,004	62,992	55,963
Metallurgical/materials engineering	25,365	34,209	29,073	28,747	35,080	32,898	38,330	40,108
Engineering, nec	61,891	57,680	54,181	50,868	63,683	70,583	75,088	74,261

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 13. R&D expenditures at historically black colleges and universities, by source of funds and science and engineering field: FY 1997–2004
(Dollars in thousands)

Source and field	1997	1998	1999	2000	2001	2002	2003	2004
All R&D expenditures	290,369	293,190	254,785	263,447	315,517	362,932	392,383	416,071
Source of funds								
Federal government	254,338	248,688	216,510	227,616	270,212	308,744	338,016	353,476
State and local government	11,346	12,908	6,877	10,699	11,544	17,770	17,860	21,062
Industry	5,182	5,030	5,388	6,072	7,108	9,970	9,598	16,055
Institutional funds	13,880	10,641	14,644	13,826	19,824	21,658	21,460	19,544
All other sources	5,623	15,923	11,366	5,234	6,829	4,790	5,449	5,934
Field								
Science	240,630	245,026	222,920	234,124	282,263	330,657	360,848	378,452
Computer sciences	15,738	14,299	15,916	14,554	19,941	13,337	12,552	11,192
Environmental sciences	14,214	14,700	11,327	11,218	13,343	11,850	23,635	37,616
Atmospheric sciences	1,129	1,810	1,871	4,031	1,718	3,110	10,495	24,431
Earth sciences	1,753	2,958	2,443	2,850	6,005	5,358	5,449	4,334
Oceanography	185	173	447	939	1,528	2,049	3,846	1,389
Environmental sciences, nec	11,147	9,759	6,566	3,398	4,092	1,333	3,845	7,462
Life sciences	138,353	143,599	124,574	139,257	166,350	203,517	234,504	241,595
Agricultural sciences	58,412	60,086	48,706	51,993	62,815	79,268	96,463	75,465
Biological sciences	54,739	57,852	45,581	48,286	62,596	73,619	77,744	81,535
Medical sciences	21,871	21,009	25,449	30,595	34,975	45,804	45,705	67,381
Life sciences, nec	3,331	4,652	4,838	8,383	5,964	4,826	14,592	17,214
Mathematical sciences	6,358	5,248	5,054	5,667	6,375	7,625	11,445	6,903
Physical sciences	47,801	46,815	48,920	40,506	44,307	46,424	44,864	41,808
Astronomy	7,269	4,384	4,567	4,304	2,399	2,149	2,793	2,174
Chemistry	16,534	21,772	22,985	14,014	14,232	15,721	16,640	17,013
Physics	23,633	20,206	20,800	22,126	26,634	24,894	23,699	21,831
Physical sciences, nec	365	453	568	62	1,042	3,660	1,732	790
Psychology	1,135	1,002	2,275	1,688	4,820	5,626	4,813	4,995
Social sciences	9,666	7,920	8,347	11,020	13,147	11,355	11,749	12,534
Economics	1,426	1,156	1,344	1,431	2,131	2,071	2,135	1,941
Political sciences	987	464	299	728	531	352	405	182
Sociology	2,964	3,033	2,877	4,253	4,122	4,181	3,848	3,610
Social sciences, nec	4,289	3,267	3,827	4,608	6,363	4,751	5,361	6,801
Sciences, nec	7,365	11,443	6,507	10,214	13,980	30,923	17,286	21,809
Engineering	49,739	48,164	31,865	29,323	33,254	32,275	31,535	37,619
Aeronautical/astronautical engineering	2,514	2,673	3,923	3,607	3,583	2,392	3,007	4,250
Bioengineering/biomedical engineering	164	183	56	882	918	144	110	144
Chemical engineering	5,010	4,660	2,637	2,965	3,292	2,824	2,896	2,883
Civil engineering	5,003	3,963	3,840	3,228	3,956	4,993	4,413	3,739
Electrical engineering	8,749	8,191	6,497	6,067	7,603	9,158	8,228	8,363
Mechanical engineering	16,704	17,899	8,186	6,705	7,258	6,833	5,995	8,720
Metallurgical/materials engineering	3,561	2,518	379	167	0	25	0	0
Engineering, nec	8,034	8,077	6,347	5,702	6,644	5,906	6,886	9,520

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 14. Federally financed R&D expenditures at historically black colleges and universities, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All federal R&D expenditures	254,338	248,688	216,510	227,616	270,212	308,744	338,016	353,476
Science	209,270	207,549	188,897	202,204	241,891	280,978	312,369	321,765
Computer sciences	13,855	12,445	13,780	12,795	18,562	12,100	12,005	10,737
Environmental sciences	11,134	11,926	8,182	9,310	10,817	9,440	20,927	36,442
Atmospheric sciences	825	1,766	1,818	3,991	1,541	2,872	10,357	24,335
Earth sciences	721	1,623	1,042	1,798	3,900	3,753	3,551	3,753
Oceanography	91	79	383	823	1,381	1,875	3,611	1,389
Environmental sciences, nec	9,497	8,458	4,939	2,698	3,995	940	3,408	6,965
Life sciences	121,976	123,460	109,349	121,781	144,236	178,037	205,514	202,392
Agricultural sciences	50,303	47,640	40,446	43,682	48,884	64,176	80,533	56,110
Biological sciences	49,229	53,175	42,388	44,857	58,771	71,006	73,374	77,030
Medical sciences	20,730	18,904	22,886	26,841	31,590	39,655	42,315	55,078
Life sciences, nec	1,714	3,741	3,629	6,401	4,991	3,200	9,292	14,174
Mathematical sciences	4,328	2,530	2,747	4,364	4,220	4,990	7,571	6,475
Physical sciences	43,101	41,314	43,851	36,250	39,981	40,902	39,728	37,072
Astronomy	7,246	4,371	4,209	3,873	1,938	1,683	2,145	1,683
Chemistry	14,014	18,752	21,215	12,850	13,226	13,835	15,418	16,003
Physics	21,511	17,979	17,920	19,521	23,913	21,900	20,853	18,745
Physical sciences, nec	330	212	507	6	904	3,484	1,312	641
Psychology	1,025	979	1,777	1,324	4,490	5,321	4,581	4,823
Social sciences	7,151	5,506	5,270	8,114	9,909	8,498	8,247	10,255
Economics	1,258	1,063	1,171	1,118	1,926	1,677	1,793	1,606
Political sciences	457	254	134	508	402	113	228	40
Sociology	2,177	2,006	1,490	3,374	3,515	3,396	3,040	3,050
Social sciences, nec	3,259	2,183	2,475	3,114	4,066	3,312	3,186	5,559
Sciences, nec	6,700	9,389	3,941	8,266	9,676	21,690	13,796	13,569
Engineering	45,068	41,139	27,613	25,412	28,321	27,766	25,647	31,711
Aeronautical/astronautical engineering	2,433	2,370	3,619	3,530	3,509	2,171	2,752	3,546
Bioengineering/biomedical engineering	159	183	56	567	469	136	110	144
Chemical engineering	4,511	3,668	2,166	2,752	3,090	2,452	2,505	2,547
Civil engineering	3,781	3,139	2,844	2,246	2,679	4,037	3,613	2,681
Electrical engineering	8,492	7,730	5,553	5,290	6,795	8,118	6,833	7,222
Mechanical engineering	15,077	14,657	7,423	6,189	6,673	5,798	4,635	7,311
Metallurgical/materials engineering	3,269	2,370	302	162	0	25	0	0
Engineering, nec	7,346	7,022	5,650	4,676	5,106	5,029	5,199	8,260

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 15. Nonfederal R&D expenditures at historically black colleges and universities, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All nonfederal R&D expenditures	36,031	44,502	38,275	35,831	45,305	54,188	54,367	62,595
Science	31,360	37,477	34,023	31,920	40,372	49,679	48,479	56,687
Computer sciences	1,883	1,854	2,136	1,759	1,379	1,237	547	455
Environmental sciences	3,080	2,774	3,145	1,908	2,526	2,410	2,708	1,174
Atmospheric sciences	304	44	53	40	177	238	138	96
Earth sciences	1,032	1,335	1,401	1,052	2,105	1,605	1,898	581
Oceanography	94	94	64	116	147	174	235	0
Environmental sciences, nec	1,650	1,301	1,627	700	97	393	437	497
Life sciences	16,377	20,139	15,225	17,476	22,114	25,480	28,990	39,203
Agricultural sciences	8,109	12,446	8,260	8,311	13,931	15,092	15,930	19,355
Biological sciences	5,510	4,677	3,193	3,429	3,825	2,613	4,370	4,505
Medical sciences	1,141	2,105	2,563	3,754	3,385	6,149	3,390	12,303
Life sciences, nec	1,617	911	1,209	1,982	973	1,626	5,300	3,040
Mathematical sciences	2,030	2,718	2,307	1,303	2,155	2,635	3,874	428
Physical sciences	4,700	5,501	5,069	4,256	4,326	5,522	5,136	4,736
Astronomy	23	13	358	431	461	466	648	491
Chemistry	2,520	3,020	1,770	1,164	1,006	1,886	1,222	1,010
Physics	2,122	2,227	2,880	2,605	2,721	2,994	2,846	3,086
Physical sciences, nec	35	241	61	56	138	176	420	149
Psychology	110	23	498	364	330	305	232	172
Social sciences	2,515	2,414	3,077	2,906	3,238	2,857	3,502	2,279
Economics	168	93	173	313	205	394	342	335
Political sciences	530	210	165	220	129	239	177	142
Sociology	787	1,027	1,387	879	607	785	808	560
Social sciences, nec	1,030	1,084	1,352	1,494	2,297	1,439	2,175	1,242
Sciences, nec	665	2,054	2,566	1,948	4,304	9,233	3,490	8,240
Engineering	4,671	7,025	4,252	3,911	4,933	4,509	5,888	5,908
Aeronautical/astronautical engineering	81	303	304	77	74	221	255	704
Bioengineering/biomedical engineering	5	0	0	315	449	8	0	0
Chemical engineering	499	992	471	213	202	372	391	336
Civil engineering	1,222	824	996	982	1,277	956	800	1,058
Electrical engineering	257	461	944	777	808	1,040	1,395	1,141
Mechanical engineering	1,627	3,242	763	516	585	1,035	1,360	1,409
Metallurgical/materials engineering	292	148	77	5	0	0	0	0
Engineering, nec	688	1,055	697	1,026	1,538	877	1,687	1,260

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 16. Total and federally financed R&D expenditures at historically black colleges and universities, ranked by FY 2004 total: FY 2001–04
(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	315,517	362,932	392,383	416,071	270,212	308,744	338,016	353,476
1	Howard U.	30,148	35,387	37,577	41,404	27,848	33,949	36,137	40,086
2	Morehouse School of Medicine	19,670	23,956	27,154	33,317	18,127	21,919	24,382	23,331
3	Hampton U.	9,158	11,067	18,673	31,645	8,377	10,058	18,417	31,443
4	Jackson State U.	25,663	25,445	28,843	31,641	22,750	21,721	25,607	28,806
5	FL A&M U.	23,865	31,147	23,503	31,408	22,477	21,592	18,273	24,994
6	Meharry Medical C.	14,984 i	20,508	25,427	27,507	14,822 i	20,453	24,195	26,159
7	NC Agricultural and Technical State U.	15,629	15,353	17,304	19,534	11,937	11,953	12,226	13,487
8	U. of the VI	8,645 i	13,981	15,762	17,874	6,288 i	10,620	10,772	11,598
9	AL A&M U.	11,977 i	15,717	36,856	17,429	8,883 i	10,710	30,343	12,023
10	TN State U.	12,791	15,262	14,306	15,255	10,210	11,218	10,280	11,277
11	Clark Atlanta U.	17,173	17,194	12,760	13,576	14,354	15,325	12,367	13,075
12	Tuskegee U.	9,539	9,965	10,067	11,519	7,259	7,703	7,660	8,904
13	Prairie View A&M U.	11,297	10,444	11,193	10,989	7,094	7,712	7,886	7,965
14	Morgan State U.	2,390	1,674	7,493	8,580	2,390	1,674	6,232	7,227
15	Alcorn State U.	7,370	5,809	7,619	7,622	7,370	5,809	7,582	7,622
16	U. AR Pine Bluff	5,240	5,976	6,543	6,246	2,596	3,016	3,470	3,455
17	Norfolk State U.	3,984	4,967	4,532	6,200	3,952	4,902	4,404	6,054
18	VA State U.	5,066	7,144	7,209	5,953	4,246	6,895	6,964	5,655
19	Xavier U. LA	5,113	6,413	5,515	5,585	4,666	6,019	5,036	5,226
20	U. MD Eastern Shore	5,626	5,905	5,124	5,466 i	5,626	5,718	4,862	5,378 i
21	Fisk U.	2,722	3,030	3,000	5,000	2,577	3,030	3,000	5,000
22	U. DC	3,001	4,223	4,125	4,693	2,008	2,963	2,769	3,492
23	DE State U.	2,494	3,162	3,944	4,370 i	2,222	2,819	3,636	4,030 i
24	Southern U. and A&M C. all campuses	7,306 i	6,310 i	5,314 i	4,317	5,709 i	5,000 i	4,291 i	3,581
25	TX Southern U.	2,468	4,189	3,088	4,088	1,908	3,910	2,925	3,749
26	Langston U.	2,863	3,975	4,332	3,578	2,863	3,975	4,332	3,578
27	SC State U.	2,915 e	2,931	3,225	3,548	1,988 e	1,998	2,198	2,418
28	KY State U.	3,996	6,188	6,395	3,298	3,655	6,036	6,395	3,298
29	Albany State U.	1,972	1,987	2,178	2,619	740	1,640	2,056	2,547
30	Ft. Valley State U.	2,768 e	2,985	2,892	2,596	2,417 e	2,985	2,798	2,558
31	Morehouse C.	2,853 i	2,853 i	2,410 i	2,518 i	1,843 i	1,843 i	1,517 i	1,619 i
32	Spelman C.	3,406	3,082	2,298	2,481	3,262	2,968	2,186	2,419
33	Lincoln U. (Jefferson City, MO)	2,236	3,291	2,601	2,181	2,236	2,513	2,149	1,552
34	Savannah State U.	2,181	2,206	2,150 i	2,094	2,181	2,206	2,150 i	2,094
35	Winston-Salem State U.	6,057	2,022	2,022 e	2,073 e	4,853	2,022	2,022 e	2,073 e
36	Grambling State U.	2,264 e	2,452	2,218	1,934	2,200 e	1,977	1,880	1,522
37	Bowie State U.	2,207	2,330	2,206	1,883	2,022	2,200	2,206	1,883
38	AL State U.	1,433 e	1,433	1,633	1,688	1,249 e	1,249	1,449	1,683
39	WV State C.	63 e	519 i	975 i	1,433	0 e	467 i	934 i	1,403
40	Shaw U.	487 i	874 i	1,261	1,270	411 i	722 i	1,033	1,033
41	NC Central U.	913 i	1,035 i	1,100 i	1,219 i	853 i	971 i	1,029 i	1,141 i
42	Elizabeth City State U.	1,248	1,058	1,103	1,044	1,248	1,058	1,103	1,032
43	Benedict C.	1,044	1,061	1,071	1,035	1,014	966	1,002	1,020
44	Tougaloo C.	1,007	1,007 i	851 i	889 i	407	407 i	335 i	358 i
45	Bethune-Cookman C.	926	794	741	723	926	794	741	723
46	Dillard U.	349	528	668	679	199	393	441	351
47	Central State U.	560 i	560 i	574 i	597 i	283 i	283 i	304 i	312 i
48	Southern U. New Orleans	680	937	587	556	652	902	552	556
49	Lincoln U. (Lincoln University, PA)	620	718	704	526	620	718	704	526
50	Oakwood C.	567 i	567 i	479 i	501 i	447 i	447 i	368 i	393 i
51	MS Valley State U.	1,316	1,030	636	493	1,316	1,030	636	493

TABLE 16. Total and federally financed R&D expenditures at historically black colleges and universities, ranked by FY 2004 total: FY 2001–04
(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
52	Morris Brown C.	116 e	343	290 i	303 i	116 e	343	282 i	301 i
53	Wiley C.	0	15	298	270	0	0	263	169
54	Clafin U.	2,074	203	293	255	1,958	203	293	255
55	Jarvis Christian C.	55 e	30	335	247	55 e	10	100	232
56	Fayetteville State U.	589	311	586	166	298	311	546	161
57	Bluefield State C.	0	0	54	156	0	0	36	156
	All other sampled institutions	2,433	9,379	286	0	2,204	8,419	260	0

e = estimated.

i = imputed.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 17. R&D expenditures at universities and colleges, by geographic division, state, and source of funds: FY 2004
(Dollars in thousands)

Division and state	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
United States	42,945,081	27,379,233	2,846,722	2,107,322	7,771,253	2,840,551
New England	3,322,441	2,493,016	78,953	173,120	326,986	250,366
Connecticut	649,663	468,589	7,015	25,306	82,238	66,515
Maine	87,353	38,918	10,824	3,829	30,645	3,137
Massachusetts	2,000,120	1,580,959	41,699	122,022	106,923	148,517
New Hampshire	277,201	191,026	7,323	10,812	47,743	20,297
Rhode Island	192,326	133,282	7,085	4,284	43,061	4,614
Vermont	115,778	80,242	5,007	6,867	16,376	7,286
Middle Atlantic	6,377,413	4,239,237	354,193	336,915	974,535	472,533
New Jersey	805,732	419,726	58,500	35,277	218,656	73,573
New York	3,365,658	2,224,543	196,548	146,242	529,399	268,926
Pennsylvania	2,206,023	1,594,968	99,145	155,396	226,480	130,034
East North Central	6,219,787	3,662,870	360,689	263,732	1,558,415	374,081
Illinois	1,707,597	1,066,129	72,030	52,814	416,965	99,659
Indiana	840,957	365,336	53,998	55,162	310,642	55,819
Michigan	1,397,011	820,716	83,945	61,363	353,185	77,802
Ohio	1,318,420	847,844	109,415	72,504	230,194	58,463
Wisconsin	955,802	562,845	41,301	21,889	247,429	82,338
West North Central	2,763,597	1,582,260	238,782	117,245	667,946	157,364
Iowa	531,770	306,237	50,647	29,465	130,679	14,742
Kansas	332,547	170,548	46,142	9,163	93,116	13,578
Minnesota	524,260	313,517	53,435	22,416	74,199	60,693
Missouri	841,584	543,107	37,081	28,925	190,978	41,493
Nebraska	324,541	129,578	12,102	20,921	142,109	19,831
North Dakota	151,710	81,724	28,498	5,622	31,203	4,663
South Dakota	57,185	37,549	10,877	733	5,662	2,364
South Atlantic	8,092,097	5,261,366	584,972	474,172	1,421,218	350,369
Delaware	114,355	80,613	3,533	3,060	23,415	3,734
District of Columbia	303,049	239,752	3,776	7,600	16,907	35,014
Florida	1,306,810	746,889	199,642	71,644	237,317	51,318
Georgia	1,221,251	699,002	83,728	67,975	335,013	35,533
Maryland	2,269,201	1,710,103	60,817	93,749	286,103	118,429
North Carolina	1,442,854	933,291	123,960	151,840	190,658	43,105
South Carolina	455,964	245,411	19,312	23,366	154,982	12,893
Virginia	848,556	526,823	85,427	50,903	137,512	47,891
West Virginia	130,057	79,482	4,777	4,035	39,311	2,452
East South Central	2,000,732	1,259,360	168,193	55,672	413,482	104,025
Alabama	570,982	417,000	9,369	15,851	106,597	22,165
Kentucky	424,013	195,032	52,458	10,446	126,040	40,037
Mississippi	347,772	211,346	52,693	9,485	68,521	5,727
Tennessee	657,965	435,982	53,673	19,890	112,324	36,096
West South Central	3,914,651	2,121,427	549,142	216,942	648,116	379,024
Arkansas	182,958	93,971	45,420	10,348	24,936	8,283
Louisiana	567,501	239,381	114,039	29,424	134,595	50,062
Oklahoma	283,408	140,863	34,257	15,013	77,796	15,479
Texas	2,880,784	1,647,212	355,426	162,157	410,789	305,200
Mountain	2,636,345	1,762,061	142,802	119,515	507,493	104,474
Arizona	650,961	376,657	24,650	38,914	186,762	23,978
Colorado	771,821	604,598	24,176	36,420	70,850	35,777
Idaho	116,757	64,623	20,770	4,852	24,227	2,285
Montana	154,726	97,411	21,279	5,597	29,062	1,377
Nevada	163,764	105,035	11,784	7,036	36,857	3,052

TABLE 17. R&D expenditures at universities and colleges, by geographic division, state, and source of funds: FY 2004
(Dollars in thousands)

Division and state	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
New Mexico	303,922	204,358	13,435	13,819	63,799	8,511
Utah	414,340	286,193	24,715	10,383	66,566	26,483
Wyoming	60,054	23,186	1,993	2,494	29,370	3,011
Pacific	7,504,172	4,912,260	358,706	345,405	1,241,511	646,290
Alaska	146,465	82,681	3,103	16,934	40,699	3,048
California	5,714,383	3,560,993	268,525	243,017	1,048,828	593,020
Hawaii	241,346	191,252	8,815	21,234	19,892	153
Oregon	505,065	371,371	37,268	14,213	60,770	21,443
Washington	896,913	705,963	40,995	50,007	71,322	28,626
Outlying areas ^a	113,846	85,376	10,290	4,604	11,551	2,025

^a Outlying areas include Guam, Puerto Rico, and the Virgin Islands.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 18. R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004

(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
United States	27,530,968	30,068,664	32,793,818	36,367,358	40,056,637	42,945,081
New England	2,178,371	2,357,803	2,562,185	2,777,696	3,037,372	3,322,441
Connecticut	419,289	468,435	498,745	538,070	594,541	649,663
Maine	44,437	57,753	68,034	69,222	75,092	87,353
Massachusetts	1,401,851	1,486,174	1,578,924	1,697,102	1,821,817	2,000,120
New Hampshire	127,135	150,982	196,975	220,061	252,210	277,201
Rhode Island	120,868	129,697	142,625	163,052	187,131	192,326
Vermont	64,791	64,762	76,882	90,189	106,581	115,778
Middle Atlantic	3,981,819	4,411,832	4,796,978	5,366,818	5,847,859	6,377,413
New Jersey	521,304	567,666	628,040	690,642	754,590	805,732
New York	2,069,952	2,291,749	2,476,008	2,763,416	3,079,897	3,365,658
Pennsylvania	1,390,563	1,552,417	1,692,930	1,912,760	2,013,372	2,206,023
East North Central	3,911,237	4,267,177	4,698,127	5,246,468	5,873,938	6,219,787
Illinois	1,101,453	1,170,743	1,280,955	1,440,716	1,613,691	1,707,597
Indiana	460,418	509,141	584,418	650,718	725,752	840,957
Michigan	921,256	1,007,582	1,108,270	1,233,511	1,389,683	1,397,011
Ohio	831,288	918,241	995,866	1,115,710	1,267,802	1,318,420
Wisconsin	596,822	661,470	728,618	805,813	877,010	955,802
West North Central	1,830,109	2,012,131	2,214,892	2,406,932	2,617,672	2,763,597
Iowa	375,300	418,263	439,810	485,756	498,669	531,770
Kansas	234,501	258,336	268,800	299,728	310,052	332,547
Minnesota	377,393	418,029	469,370	504,398	517,912	524,260
Missouri	549,876	614,028	678,202	705,593	806,907	841,584
Nebraska	205,495	208,480	241,638	266,930	300,540	324,541
North Dakota	61,695	67,406	84,574	106,078	133,615	151,710
South Dakota	25,849	27,589	32,498	38,449	49,977	57,185
South Atlantic	5,166,764	5,571,168	6,115,250	6,855,470	7,510,194	8,092,097
Delaware	76,286	78,126	79,985	88,319	104,650	114,355
District of Columbia	223,786	245,828	228,110	251,601	263,342	303,049
Florida	788,743	851,932	985,628	1,085,764	1,204,592	1,306,810
Georgia	840,953	926,749	988,883	1,076,424	1,175,657	1,221,251
Maryland	1,387,262	1,507,549	1,644,467	1,886,027	2,035,273	2,269,201
North Carolina	1,012,576	1,039,812	1,137,248	1,276,823	1,394,545	1,442,854
South Carolina	267,881	294,274	361,404	399,982	435,328	455,964
Virginia	504,937	553,478	610,449	693,204	775,594	848,556
West Virginia	64,340	73,420	79,076	97,326	121,213	130,057
East South Central	1,238,078	1,327,185	1,435,533	1,618,193	1,852,412	2,000,732
Alabama	416,594	428,122	448,294	503,470	550,756	570,982
Kentucky	274,927	276,986	298,268	334,208	377,635	424,013
Mississippi	175,118	217,064	260,991	289,521	324,298	347,772
Tennessee	371,439	405,013	427,980	490,994	599,723	657,965
West South Central	2,557,262	2,830,679	3,084,985	3,433,995	3,758,103	3,914,651
Arkansas	112,379	131,868	142,310	140,813	183,908	182,958
Louisiana	376,098	408,711	435,619	475,883	513,463	567,501
Oklahoma	238,799	252,419	255,217	282,062	295,098	283,408
Texas	1,829,986	2,037,681	2,251,839	2,535,237	2,765,634	2,880,784
Mountain	1,739,467	1,884,285	2,033,640	2,212,687	2,465,462	2,636,345
Arizona	439,286	465,777	500,548	531,106	617,978	650,961
Colorado	507,673	544,584	572,950	645,291	694,862	771,821
Idaho	71,674	73,726	82,496	93,323	105,039	116,757
Montana	84,460	99,069	107,744	122,375	141,220	154,726
Nevada	91,485	106,154	115,934	126,713	154,515	163,764
New Mexico	224,500	243,822	274,209	292,691	306,636	303,922

TABLE 18. R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004

(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
Utah	273,192	308,059	338,127	359,556	385,158	414,340
Wyoming	47,197	43,094	41,632	41,632	60,054	60,054
Pacific	4,831,179	5,324,435	5,776,076	6,360,261	6,992,464	7,504,172
Alaska	94,280	108,099	119,199	128,875	142,413	146,465
California	3,662,636	4,065,130	4,426,401	4,888,197	5,357,748	5,714,383
Hawaii	156,810	161,300	156,976	172,664	184,602	241,346
Oregon	327,932	346,149	366,023	386,666	436,958	505,065
Washington	589,521	643,757	707,477	783,859	870,743	896,913
Outlying areas ^a	96,682	81,969	76,152	88,838	101,161	113,846

^a Outlying areas include Guam, Puerto Rico, and the Virgin Islands.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 19. Federally financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004
(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
United States	16,101,914	17,535,692	19,222,037	21,862,995	24,743,653	27,379,233
New England	1,508,019	1,619,803	1,761,615	1,974,004	2,200,142	2,493,016
Connecticut	274,098	304,155	327,983	375,054	418,449	468,589
Maine	20,137	25,309	25,116	25,830	31,293	38,918
Massachusetts	1,018,172	1,065,307	1,141,725	1,261,765	1,379,361	1,580,959
New Hampshire	77,327	95,290	115,067	138,084	165,497	191,026
Rhode Island	81,512	88,510	101,629	113,841	133,560	133,282
Vermont	36,773	41,232	50,095	59,430	71,982	80,242
Middle Atlantic	2,485,786	2,769,208	2,987,448	3,439,194	3,828,070	4,239,237
New Jersey	240,011	257,445	274,865	316,912	369,740	419,726
New York	1,337,196	1,475,694	1,564,816	1,778,239	2,014,221	2,224,543
Pennsylvania	908,579	1,036,069	1,147,767	1,344,043	1,444,109	1,594,968
East North Central	2,147,535	2,311,014	2,558,720	2,900,387	3,331,207	3,662,870
Illinois	626,981	681,074	741,603	838,708	963,582	1,066,129
Indiana	224,035	228,768	247,944	276,401	327,720	365,336
Michigan	508,705	553,667	622,049	699,888	792,755	820,716
Ohio	475,650	498,726	560,683	642,680	742,798	847,844
Wisconsin	312,164	348,779	386,441	442,710	504,352	562,845
West North Central	898,713	1,023,213	1,136,070	1,297,182	1,457,820	1,582,260
Iowa	177,847	203,437	219,361	257,084	284,091	306,237
Kansas	88,728	105,610	114,732	134,301	155,589	170,548
Minnesota	210,798	233,522	267,938	300,102	298,114	313,517
Missouri	321,115	371,666	409,902	447,795	519,515	543,107
Nebraska	61,268	65,702	76,507	89,322	106,040	129,578
North Dakota	25,923	29,343	30,950	46,418	66,276	81,724
South Dakota	13,034	13,933	16,680	22,160	28,195	37,549
South Atlantic	3,038,231	3,218,151	3,573,352	4,153,777	4,723,641	5,261,366
Delaware	36,683	40,768	44,052	51,002	73,129	80,613
District of Columbia	173,466	186,632	192,314	206,000	214,574	239,752
Florida	396,395	408,826	463,776	559,327	667,688	746,889
Georgia	380,775	417,664	472,593	534,419	638,208	699,002
Maryland	1,058,128	1,090,445	1,196,085	1,410,960	1,508,621	1,710,103
North Carolina	552,310	590,649	655,114	743,236	838,312	933,291
South Carolina	111,506	131,171	169,257	183,701	226,288	245,411
Virginia	302,379	318,024	344,635	405,663	482,410	526,823
West Virginia	26,589	33,972	35,526	59,469	74,411	79,482
East South Central	667,172	731,929	858,725	1,011,885	1,172,792	1,259,360
Alabama	261,752	275,912	313,644	365,187	409,919	417,000
Kentucky	93,221	98,512	120,529	151,228	172,464	195,032
Mississippi	94,229	117,168	154,848	179,681	207,790	211,346
Tennessee	217,970	240,337	269,704	315,789	382,619	435,982
West South Central	1,264,533	1,425,338	1,575,244	1,781,061	1,978,378	2,121,427
Arkansas	45,932	58,543	64,166	62,269	82,851	93,971
Louisiana	154,341	171,899	181,160	196,496	216,732	239,381
Oklahoma	88,507	93,434	96,349	112,438	127,055	140,863
Texas	975,753	1,101,462	1,233,569	1,409,858	1,551,740	1,647,212
Mountain	1,076,005	1,191,855	1,283,393	1,415,168	1,607,845	1,762,061
Arizona	239,142	244,938	265,716	287,052	341,715	376,657
Colorado	361,598	427,768	438,664	484,762	534,716	604,598
Idaho	28,116	28,888	34,347	42,376	55,928	64,623
Montana	43,872	51,686	56,668	65,575	84,991	97,411
Nevada	51,387	60,005	69,085	85,085	103,532	105,035
New Mexico	155,218	169,914	185,733	195,383	199,607	204,358

TABLE 19. Federally financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004
(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
Utah	177,563	192,100	213,163	234,918	264,170	286,193
Wyoming	19,109	16,556	20,017	20,017	23,186	23,186
Pacific	2,960,911	3,197,256	3,432,919	3,827,523	4,371,495	4,912,260
Alaska	37,689	49,763	59,273	71,129	78,725	82,681
California	2,181,345	2,361,804	2,531,345	2,809,753	3,183,762	3,560,993
Hawaii	93,418	95,419	97,716	119,381	148,662	191,252
Oregon	230,289	246,684	255,324	273,901	317,704	371,371
Washington	418,170	443,586	489,261	553,359	642,642	705,963
Outlying areas ^a	55,009	47,925	54,551	62,814	72,263	85,376

^a Outlying areas include Guam, Puerto Rico, and the Virgin Islands.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 20. State and local government-financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004

(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
United States	2,021,280	2,199,603	2,320,195	2,505,086	2,649,552	2,846,722
New England	62,888	79,755	83,644	85,160	82,517	78,953
Connecticut	10,953	15,539	15,167	8,969	9,279	7,015
Maine	1,964	6,445	8,536	11,151	11,952	10,824
Massachusetts	33,807	40,198	38,184	46,514	43,373	41,699
New Hampshire	8,961	9,747	12,194	7,870	7,709	7,323
Rhode Island	4,485	4,564	5,511	6,293	6,764	7,085
Vermont	2,718	3,262	4,052	4,363	3,440	5,007
Middle Atlantic	182,010	193,280	233,414	277,468	320,602	354,193
New Jersey	45,020	46,071	54,230	62,789	66,704	58,500
New York	84,453	102,753	127,736	136,155	159,881	196,548
Pennsylvania	52,537	44,456	51,448	78,524	94,017	99,145
East North Central	259,369	299,806	315,687	345,381	329,780	360,689
Illinois	62,687	73,042	82,742	92,536	93,468	72,030
Indiana	27,877	34,377	45,456	54,494	51,364	53,998
Michigan	57,785	63,291	66,798	69,484	95,036	83,945
Ohio	68,051	83,520	80,268	78,725	39,432	109,415
Wisconsin	42,969	45,576	40,423	50,142	50,480	41,301
West North Central	199,975	195,950	205,958	211,355	212,202	238,782
Iowa	53,415	56,351	59,668	56,410	51,078	50,647
Kansas	51,101	44,396	45,153	44,698	42,116	46,142
Minnesota	49,452	52,631	58,483	61,380	59,826	53,435
Missouri	25,591	26,387	25,166	27,322	33,582	37,081
Nebraska	10,653	7,243	7,007	9,936	12,014	12,102
North Dakota	1,965	2,417	1,440	2,569	3,760	28,498
South Dakota	7,798	6,525	9,041	9,040	9,826	10,877
South Atlantic	453,522	483,471	479,811	491,070	492,987	584,972
Delaware	5,401	4,142	4,712	4,270	3,745	3,533
District of Columbia	3,117	3,826	3,193	4,166	3,968	3,776
Florida	91,371	103,167	110,244	118,480	118,531	199,642
Georgia	74,523	76,857	78,760	79,163	85,361	83,728
Maryland	76,138	82,069	59,552	58,425	62,688	60,817
North Carolina	123,045	114,283	120,663	117,024	117,139	123,960
South Carolina	26,670	31,705	30,135	26,270	21,673	19,312
Virginia	50,053	64,459	70,081	81,259	76,661	85,427
West Virginia	3,204	2,963	2,471	2,013	3,221	4,777
East South Central	121,296	106,272	132,059	144,142	147,621	168,193
Alabama	8,923	6,052	5,485	7,582	6,765	9,369
Kentucky	42,173	22,129	41,257	45,257	48,960	52,458
Mississippi	31,155	38,833	41,505	41,966	37,397	52,693
Tennessee	39,045	39,258	43,812	49,337	54,499	53,673
West South Central	337,262	382,198	391,390	436,684	539,190	549,142
Arkansas	32,543	35,076	38,437	39,777	55,395	45,420
Louisiana	79,834	77,281	84,265	96,449	104,722	114,039
Oklahoma	41,736	42,396	40,615	40,462	40,582	34,257
Texas	183,149	227,445	228,073	259,996	338,491	355,426
Mountain	107,428	116,483	119,967	127,865	158,234	142,802
Arizona	11,753	15,221	14,269	14,553	39,564	24,650
Colorado	24,992	24,012	21,934	24,385	30,808	24,176
Idaho	15,718	18,545	18,389	21,328	18,749	20,770
Montana	14,639	17,873	19,745	23,118	21,506	21,279
Nevada	5,442	7,032	10,275	5,925	8,024	11,784

TABLE 20. State and local government-financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004

(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
New Mexico	12,302	11,965	11,872	13,803	14,913	13,435
Utah	19,852	20,365	21,445	22,715	22,677	24,715
Wyoming	2,730	1,470	2,038	2,038	1,993	1,993
Pacific	272,340	326,059	352,768	379,238	358,152	358,706
Alaska	4,187	3,551	3,488	3,758	5,036	3,103
California	186,066	236,283	256,062	284,042	283,263	268,525
Hawaii	35,111	35,474	33,125	31,062	11,822	8,815
Oregon	30,636	35,485	41,449	42,027	38,016	37,268
Washington	16,340	15,266	18,644	18,349	20,015	40,995
Outlying areas ^a	25,190	16,329	5,497	6,723	8,267	10,290

^a Outlying areas include Guam, Puerto Rico, and the Virgin Islands.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 21. Industry-financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004
(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
United States	2,032,727	2,155,741	2,219,791	2,186,906	2,162,963	2,107,322
New England	173,363	187,617	205,188	186,663	181,915	173,120
Connecticut	26,378	28,327	24,282	23,332	27,845	25,306
Maine	2,476	2,994	3,769	4,075	3,385	3,829
Massachusetts	125,557	138,651	156,335	139,160	128,944	122,022
New Hampshire	8,939	9,197	12,140	10,389	11,257	10,812
Rhode Island	2,901	2,735	2,228	2,538	2,995	4,284
Vermont	7,112	5,713	6,434	7,169	7,489	6,867
Middle Atlantic	286,404	295,654	331,545	325,208	311,719	336,915
New Jersey	30,402	29,817	39,539	38,275	37,225	35,277
New York	101,760	106,136	129,384	128,208	133,211	146,242
Pennsylvania	154,242	159,701	162,622	158,725	141,283	155,396
East North Central	260,880	274,510	275,116	263,190	263,807	263,732
Illinois	56,765	56,088	59,183	54,937	49,425	52,814
Indiana	41,727	42,343	41,625	43,339	51,182	55,162
Michigan	61,927	66,955	65,453	63,724	69,052	61,363
Ohio	80,705	87,570	86,186	80,152	73,981	72,504
Wisconsin	19,756	21,554	22,669	21,038	20,167	21,889
West North Central	131,314	138,704	136,544	134,751	124,369	117,245
Iowa	35,940	32,473	34,716	35,462	35,511	29,465
Kansas	19,525	23,410	12,484	13,741	8,200	9,163
Minnesota	24,323	26,889	26,987	27,200	24,748	22,416
Missouri	30,380	33,535	37,930	30,459	26,561	28,925
Nebraska	17,232	17,636	17,782	21,104	22,024	20,921
North Dakota	3,608	4,400	6,242	6,505	6,636	5,622
South Dakota	306	361	403	280	689	733
South Atlantic	449,416	482,459	506,131	507,650	521,224	474,172
Delaware	4,246	3,878	5,041	5,667	3,051	3,060
District of Columbia	14,349	16,286	12,789	12,423	10,901	7,600
Florida	63,637	78,906	72,561	67,194	68,616	71,644
Georgia	90,792	94,341	96,843	95,964	74,235	67,975
Maryland	33,777	50,154	71,874	82,214	98,798	93,749
North Carolina	182,766	172,838	167,883	158,753	183,682	151,840
South Carolina	12,826	15,478	23,006	27,051	22,995	23,366
Virginia	41,491	43,068	49,608	51,573	56,640	50,903
West Virginia	5,532	7,510	6,526	6,811	2,306	4,035
East South Central	76,662	67,011	67,083	59,295	54,765	55,672
Alabama	22,287	19,581	21,738	18,856	15,019	15,851
Kentucky	21,719	17,937	13,999	9,090	8,491	10,446
Mississippi	11,126	10,973	9,843	10,822	9,595	9,485
Tennessee	21,530	18,520	21,503	20,527	21,660	19,890
West South Central	210,721	215,889	225,038	237,262	232,105	216,942
Arkansas	10,286	8,121	7,484	9,106	9,528	10,348
Louisiana	25,601	25,828	25,724	30,451	30,940	29,424
Oklahoma	14,802	16,789	17,382	19,530	17,211	15,013
Texas	160,032	165,151	174,448	178,175	174,426	162,157
Mountain	99,395	106,269	110,146	109,159	123,817	119,515
Arizona	22,242	28,519	29,924	31,455	40,280	38,914
Colorado	27,226	24,096	29,497	33,640	37,265	36,420
Idaho	3,962	5,338	6,683	7,469	6,152	4,852
Montana	8,967	10,298	9,084	7,712	6,909	5,597
Nevada	5,196	5,532	5,078	4,120	5,593	7,036
New Mexico	12,866	11,692	12,297	10,936	15,326	13,819

TABLE 21. Industry-financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004
(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
Utah	15,730	17,853	15,002	11,246	9,798	10,383
Wyoming	3,206	2,941	2,581	2,581	2,494	2,494
Pacific	341,095	382,607	360,548	359,767	343,686	345,405
Alaska	19,732	20,087	29,176	24,002	23,093	16,934
California	249,447	274,481	261,717	263,223	250,966	243,017
Hawaii	13,021	11,158	7,232	9,971	6,931	21,234
Oregon	4,218	14,775	14,489	11,720	10,706	14,213
Washington	54,677	62,106	47,934	50,851	51,990	50,007
Outlying areas ^a	3,477	5,021	2,452	3,961	5,556	4,604

^a Outlying areas include Guam, Puerto Rico, and the Virgin Islands.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 22. Institutionally financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004
(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
United States	5,380,923	5,923,665	6,606,735	7,125,556	7,658,875	7,771,253
New England	228,201	252,686	267,124	272,257	297,797	326,986
Connecticut	67,375	74,534	76,044	68,711	71,403	82,238
Maine	17,293	20,555	25,536	22,182	24,896	30,645
Massachusetts	85,061	94,145	80,566	89,124	98,296	106,923
New Hampshire	18,102	22,924	43,031	42,231	49,139	47,743
Rhode Island	28,474	30,289	29,609	35,622	37,239	43,061
Vermont	11,896	10,239	12,338	14,387	16,824	16,376
Middle Atlantic	675,166	736,769	815,293	865,651	938,198	974,535
New Jersey	162,648	160,412	190,380	205,134	211,918	218,656
New York	323,115	373,726	413,649	453,221	514,126	529,399
Pennsylvania	189,403	202,631	211,264	207,296	212,154	226,480
East North Central	960,803	1,067,896	1,193,905	1,335,986	1,517,018	1,558,415
Illinois	272,226	279,787	311,891	357,341	399,539	416,965
Indiana	149,209	178,613	203,717	225,350	236,893	310,642
Michigan	229,891	253,325	278,480	307,336	347,026	353,185
Ohio	149,014	179,704	193,146	228,135	315,682	230,194
Wisconsin	160,463	176,467	206,671	217,824	217,878	247,429
West North Central	473,664	510,534	597,554	624,861	654,150	667,946
Iowa	91,684	104,472	103,688	114,077	114,738	130,679
Kansas	58,212	69,872	74,134	91,401	87,446	93,116
Minnesota	63,144	72,247	81,911	77,464	72,780	74,199
Missouri	127,617	130,262	163,916	161,444	182,470	190,978
Nebraska	102,776	101,159	127,825	129,790	140,401	142,109
North Dakota	27,782	28,651	42,409	46,964	51,377	31,203
South Dakota	2,449	3,871	3,671	3,721	4,938	5,662
South Atlantic	979,688	1,091,568	1,243,882	1,351,336	1,411,730	1,421,218
Delaware	19,715	19,562	16,486	18,239	19,840	23,415
District of Columbia	13,110	15,480	4,291	9,777	14,229	16,907
Florida	198,479	220,827	291,649	276,617	284,656	237,317
Georgia	258,563	299,214	297,178	312,922	321,643	335,013
Maryland	151,053	181,039	210,933	237,812	256,665	286,103
North Carolina	126,591	130,577	152,944	209,552	207,365	190,658
South Carolina	101,808	102,793	131,435	144,576	152,311	154,982
Virginia	85,617	97,777	109,537	113,248	116,317	137,512
West Virginia	24,752	24,299	29,429	28,593	38,704	39,311
East South Central	283,726	324,296	296,543	323,106	378,770	413,482
Alabama	79,251	88,167	86,537	91,942	98,258	106,597
Kentucky	108,830	121,470	101,779	98,940	113,143	126,040
Mississippi	36,156	47,025	51,339	53,207	62,619	68,521
Tennessee	59,489	67,634	56,888	79,017	104,750	112,324
West South Central	490,352	534,354	590,539	637,139	662,097	648,116
Arkansas	16,437	22,797	23,291	21,985	26,915	24,936
Louisiana	96,378	101,321	105,146	106,769	123,402	134,595
Oklahoma	76,192	88,152	88,219	93,459	94,350	77,796
Texas	301,345	322,084	373,883	414,926	417,430	410,789
Mountain	375,164	380,415	424,179	457,968	480,726	507,493
Arizona	150,366	158,810	169,472	171,237	171,749	186,762
Colorado	60,743	53,741	57,315	77,073	71,433	70,850
Idaho	16,877	17,505	21,948	21,077	22,683	24,227
Montana	15,566	15,658	20,919	24,212	26,436	29,062
Nevada	25,484	29,040	27,681	28,370	33,435	36,857
New Mexico	39,260	41,740	55,841	64,449	68,935	63,799

TABLE 22. Institutionally financed R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004
(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
Utah	46,220	43,818	54,787	55,334	56,685	66,566
Wyoming	20,648	20,103	16,216	16,216	29,370	29,370
Pacific	902,570	1,013,033	1,165,189	1,243,640	1,305,154	1,241,511
Alaska	32,353	34,391	26,612	28,132	32,693	40,699
California	729,709	824,940	954,715	1,029,323	1,079,615	1,048,828
Hawaii	15,260	19,249	18,903	12,232	17,171	19,892
Oregon	45,962	32,568	35,864	36,531	46,523	60,770
Washington	79,286	101,885	129,095	137,422	129,152	71,322
Outlying areas ^a	11,589	12,114	12,527	13,612	13,235	11,551

^a Outlying areas include Guam, Puerto Rico, and the Virgin Islands.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 23. All other sources of financing for R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004
(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
United States	1,994,124	2,253,963	2,425,060	2,686,815	2,841,594	2,840,551
New England	205,900	217,942	244,614	259,612	275,001	250,366
Connecticut	40,485	45,880	55,269	62,004	67,565	66,515
Maine	2,567	2,450	5,077	5,984	3,566	3,137
Massachusetts	139,254	147,873	162,114	160,539	171,843	148,517
New Hampshire	13,806	13,824	14,543	21,487	18,608	20,297
Rhode Island	3,496	3,599	3,648	4,758	6,573	4,614
Vermont	6,292	4,316	3,963	4,840	6,846	7,286
Middle Atlantic	352,453	416,921	429,278	459,297	449,270	472,533
New Jersey	43,223	73,921	69,026	67,532	69,003	73,573
New York	223,428	233,440	240,423	267,593	258,458	268,926
Pennsylvania	85,802	109,560	119,829	124,172	121,809	130,034
East North Central	282,650	313,951	354,699	401,524	432,126	374,081
Illinois	82,794	80,752	85,536	97,194	107,677	99,659
Indiana	17,570	25,040	45,676	51,134	58,593	55,819
Michigan	62,948	70,344	75,490	93,079	85,814	77,802
Ohio	57,868	68,721	75,583	86,018	95,909	58,463
Wisconsin	61,470	69,094	72,414	74,099	84,133	82,338
West North Central	126,443	143,730	138,766	138,783	169,131	157,364
Iowa	16,414	21,530	22,377	22,723	13,251	14,742
Kansas	16,935	15,048	22,297	15,587	16,701	13,578
Minnesota	29,676	32,740	34,051	38,252	62,444	60,693
Missouri	45,173	52,178	41,288	38,573	44,779	41,493
Nebraska	13,566	16,740	12,517	16,778	20,061	19,831
North Dakota	2,417	2,595	3,533	3,622	5,566	4,663
South Dakota	2,262	2,899	2,703	3,248	6,329	2,364
South Atlantic	245,907	295,519	312,074	351,637	360,612	350,369
Delaware	10,241	9,776	9,694	9,141	4,885	3,734
District of Columbia	19,744	23,604	15,523	19,235	19,670	35,014
Florida	38,861	40,206	47,398	64,146	65,101	51,318
Georgia	36,300	38,673	43,509	53,956	56,210	35,533
Maryland	68,166	103,842	106,023	96,616	108,501	118,429
North Carolina	27,864	31,465	40,644	48,258	48,047	43,105
South Carolina	15,071	13,127	7,571	18,384	12,061	12,893
Virginia	25,397	30,150	36,588	41,461	43,566	47,891
West Virginia	4,263	4,676	5,124	440	2,571	2,452
East South Central	89,222	97,677	81,123	79,765	98,464	104,025
Alabama	44,381	38,410	20,890	19,903	20,795	22,165
Kentucky	8,984	16,938	20,704	29,693	34,577	40,037
Mississippi	2,452	3,065	3,456	3,845	6,897	5,727
Tennessee	33,405	39,264	36,073	26,324	36,195	36,096
West South Central	254,394	272,900	302,774	341,849	346,333	379,024
Arkansas	7,181	7,331	8,932	7,676	9,219	8,283
Louisiana	19,944	32,382	39,324	45,718	37,667	50,062
Oklahoma	17,562	11,648	12,652	16,173	15,900	15,479
Texas	209,707	221,539	241,866	272,282	283,547	305,200
Mountain	81,475	89,263	95,955	102,527	94,840	104,474
Arizona	15,783	18,289	21,167	26,809	24,670	23,978
Colorado	33,114	14,967	25,540	25,431	20,640	35,777
Idaho	7,001	3,450	1,129	1,073	1,527	2,285
Montana	1,416	3,554	1,328	1,758	1,378	1,377
Nevada	3,976	4,545	3,815	3,213	3,931	3,052
New Mexico	4,854	8,511	8,466	8,120	7,855	8,511

TABLE 23. All other sources of financing for R&D expenditures at universities and colleges, by geographic division and state: FY 1999–2004
(Dollars in thousands)

Division and state	1999	2000	2001	2002	2003	2004
Utah	13,827	33,923	33,730	35,343	31,828	26,483
Wyoming	1,504	2,024	780	780	3,011	3,011
Pacific	354,263	405,480	464,652	550,093	613,977	646,290
Alaska	319	307	650	1,854	2,866	3,048
California	316,069	367,622	422,562	501,856	560,142	593,020
Hawaii	0	0	0	18	16	153
Oregon	16,827	16,637	18,897	22,487	24,009	21,443
Washington	21,048	20,914	22,543	23,878	26,944	28,626
Outlying areas ^a	1,417	580	1,125	1,728	1,840	2,025

^a Outlying areas include Guam, Puerto Rico, and the Virgin Islands.

NOTES: Because of rounding, detail may not add to total. Includes R&D expenditures financed by sources other than government (federal, state, local), industry, or institutional funds.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004
(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
United States	42,945,081	27,379,233	2,846,722	2,107,322	7,771,253	2,840,551
Public	29,292,010	16,948,937	2,560,040	1,441,761	6,478,379	1,862,893
Private	13,653,071	10,430,296	286,682	665,561	1,292,874	977,658
Alabama	570,982	417,000	9,369	15,851	106,597	22,165
Public	558,962	407,703	9,369	15,851	106,516	19,523
AL A&M U.	17,429	12,023	3,208	15	2,067	116
AL State U.	1,688	1,683	0	5	0	0
Auburn U. all campuses	125,705	49,565	2,394	3,833	65,179	4,734
U. AL, The	33,835	25,329	2,253	1,428	4,825	0
U. AL Birmingham, The	310,950	261,664	309	9,391	25,850	13,736
U. AL Huntsville, The	49,259	39,607	301	756	8,595	0
U. South AL	20,096	17,832	904	423	0	937
Private	12,020	9,297	0	0	81	2,642
Oakwood C.	501 i	393 i	0 i	0 i	81 i	27 i
Tuskegee U.	11,519	8,904	0	0	0	2,615
Alaska	146,465	82,681	3,103	16,934	40,699	3,048
Public	146,465	82,681	3,103	16,934	40,699	3,048
U. AK Anchorage all campuses	13,285	6,721	1,219	0	2,404	2,941
U. AK Fairbanks all campuses	132,212	75,269	1,741	16,934	38,268	0
U. AK Southeast all campuses	968	691	143	0	27	107
Arizona	650,961	376,657	24,650	38,914	186,762	23,978
Public	650,811	376,587	24,645	38,904	186,726	23,949
AZ State U. main campus	152,164	79,877	13,857	8,062	46,801	3,567
Northern AZ U.	19,967	12,754	4,366	1,271	1,436	140
U. AZ	478,680	283,956	6,422	29,571	138,489	20,242
Private	150	70	5	10	36	29
Prescott C.	150 i	70 i	5 i	10 i	36 i	29 i
Arkansas	182,958	93,971	45,420	10,348	24,936	8,283
Public	182,327	93,356	45,420	10,348	24,920	8,283
AR State U. main campus	4,572	569	3,618	0	201	184
AR Tech U.	842	144 i	138 i	54 i	486 i	20 i
U. AR for Medical Sciences	74,063	53,249	6,149	3,270	7,525	3,870
U. AR Little Rock	4,127	2,586	730	809	2	0
U. AR main campus	88,918	31,088	34,273	5,958	13,863	3,736
U. AR Pine Bluff	6,246	3,455	287	0	2,502	2
U. Central AR	3,559	2,265	225	257	341	471
Private	631	615	0	0	16	0
Hendrix C.	631	615	0	0	16	0
California	5,714,383	3,560,993	268,525	243,017	1,048,828	593,020
Public	4,253,777	2,384,019	246,105	177,012	910,829	535,812
CA State Polytechnic U. Pomona	4,059	4,059	0	0	0	0
CA State Polytechnic U. San Luis Obispo	9,417	2,616	2,400	1,625	1,200	1,576
CA State U. Bakersfield	4,946 i	673 i	1,051 i	524 i	742 i	1,956 i
CA State U. Chico	4,500 e	1,647 i	1,857 i	996 i	0 i	0 i
CA State U. Dominguez Hills	5,320	4,179	186	0	914	41
CA State U. Fresno	15,211	3,750	9,740	76	1,282	363
CA State U. Fullerton	4,432	3,979	139	169	145	0
CA State U. Hayward	2,160	1,639	129	0	249	143
CA State U. Long Beach	9,877	8,351	464	420	375	267
CA State U. Los Angeles	8,728	8,094	16	28	0	590

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
CA State U. Monterey Bay	3,002	2,548	310	0	0	144
CA State U. Northridge	10,305	6,521	2,489	55	1,207	33
CA State U. San Bernardino	8,755	5,127	1,929	537	1,162	0
Humboldt State U.	8,391 i	4,316 i	1,179 i	1,207 i	622 i	1,067 i
Naval Postgraduate School	65,092 i	64,667 i	38 i	23 i	80 i	284 i
San Diego State U.	66,710	30,092	8,544	730	21,317	6,027
San Francisco State U.	42,903	37,056	5,847	0	0	0
San Jose State U.	29,268	20,363	4,947	786	941	2,231
Sonoma State U.	260	234	8	0	14	4
U. CA Office of the President	90,233	203	37,662	7	51,798	563
U. CA, Berkeley	525,598	268,830	37,428	22,833	123,116	73,391
U. CA, Davis	511,757	221,937	42,023	24,248	172,914	50,635
U. CA, Irvine	257,024	150,995	9,392	13,391	50,556	32,690
U. CA, Los Angeles	772,569	461,145	20,798	27,656	140,060	122,910
U. CA, Riverside	110,627	40,981	6,909	4,807	45,324	12,606
U. CA, San Diego	708,690	465,629	18,999	31,028	115,730	77,304
U. CA, San Francisco	728,321	418,944	27,900	31,482	128,769	121,226
U. CA, Santa Barbara	151,325	92,248	2,165	12,286	27,110	17,516
U. CA, Santa Cruz	94,297	53,196	1,556	2,098	25,202	12,245
Private	1,460,606	1,176,974	22,420	66,005	137,999	57,208
CA Institute of Technology	261,098	244,187	1,607	3,918	6,777	4,609
Chapman U.	965	439	0	0	319	207
Charles R. Drew U. of Medicine and Science	51,994	40,430	6,420	5,135	9	0
Claremont Graduate U.	2,295	945	105	34	356	855
Harvey Mudd C.	2,180 e	1,489 i	19 i	99 i	123 i	450 i
Loma Linda U.	29,651	26,631	128	256	653	1,983
Loyola Marymount U.	736	508	42	14	80	92
Mt. St. Mary's C. (Los Angeles, CA)	492	492	0	0	0	0
Occidental C.	2,781 i	1,606 i	191 i	951 i	33 i	0 i
Pitzer C.	320	223	0	0	91	6
Pomona C.	1,996	940	0	0	1,056	0
Stanford U.	671,046	541,667	5,027	34,296	41,603	48,453
U. Redlands	2,038	1,711	200	0	0	127
U. San Diego	895	399	15	113	0	368
U. San Francisco	1,163	706	52	19	386	0
U. Southern CA	426,665	312,589	8,547	19,960	85,569	0
U. of the Pacific	2,961	1,700	67	1,194	0	0
Western U. of Health Sciences	1,330	312	0	16	944	58
Colorado	771,821	604,598	24,176	36,420	70,850	35,777
Public	757,944	594,680	24,035	35,517	68,395	35,317
CO School of Mines	27,087	16,550	1,027	9,510	0	0
CO State U.	214,888	145,213	16,288	15,333	22,258	15,796
CO State U. Pueblo	786	714	9	0	1	62
Ft. Lewis C.	227	150	36	31	10	0
U.S. Air Force Academy	29,998	15,739	0	625	13,634	0
U. CO Boulder	234,311	208,075	1,379	3,903	16,662	4,292
U. CO Colorado Springs	3,526	2,725	18	180	441	162
U. CO Denver	5,992	2,669	328	55	2,577	363
U. CO Health Sciences Ctr.	239,163	201,517	4,944	5,880	12,228	14,594
U. Northern CO	1,966	1,328	6	0	584	48
Private	13,877	9,918	141	903	2,455	460
CO C.	1,377 i	79 i	0 i	319 i	979 i	0 i
U. Denver	12,500	9,839	141	584	1,476	460
Connecticut	649,663	468,589	7,015	25,306	82,238	66,515

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
Public	212,914	129,026	6,170	10,829	52,908	13,981
Central CT State U.	388	239	0	9	0	140
Southern CT State U.	424	312	30	82	0	0
U.S. Coast Guard Academy	866	866	0	0	0	0
U. CT all campuses	211,236	127,609	6,140	10,738	52,908	13,841
Private	436,749	339,563	845	14,477	29,330	52,534
CT C.	626 i	0 i	1 i	12 i	20 i	593 i
Fairfield U.	1,926	267	0	5	1,557	97
Trinity C. (Hartford, CT)	768	686	0	12	60	10
U. Hartford	1,136	697	222	19	125	73
U. New Haven	1,724 i	1,688 i	0 i	0 i	0 i	36 i
Wesleyan U.	7,741	5,388	45	35	1,447	826
Yale U.	422,828	330,837	577	14,394	26,121	50,899
Delaware	114,355	80,613	3,533	3,060	23,415	3,734
Public	114,355	80,613	3,533	3,060	23,415	3,734
DE State U.	4,370 i	4,030 i	264 i	76 i	0 i	0 i
U. DE	109,985	76,583	3,269	2,984	23,415	3,734
District of Columbia	303,049	239,752	3,776	7,600	16,907	35,014
Public	4,693	3,492	782	0	411	8
U. DC	4,693	3,492	782	0	411	8
Private	298,356	236,260	2,994	7,600	16,496	35,006
American U.	1,745	1,456	0	8	202	79
Catholic U. America, The	23,610	18,927	40	186	4,121	336
Gallaudet U.	1,804	1,747	57	0	0	0
George Washington U.	103,473	78,192	676	2,058	1,835	20,712
Georgetown U.	126,320	95,852	1,836	4,415	10,338	13,879
Howard U.	41,404	40,086	385	933	0	0
Florida	1,306,810	746,889	199,642	71,644	237,317	51,318
Public	1,089,826	591,268	193,970	49,429	228,144	27,015
FL A&M U.	31,408	24,994	3,367	3,047	0	0
FL Atlantic U.	23,767	14,662	5,454	648	1,698	1,305
FL Gulf Coast U.	1,407	884	26	0	0	497
FL International U.	63,545	47,913	7,130	5,101	0	3,401
FL State U.	168,132	102,967	8,556	1,658	48,943	6,008
New C. FL	305	199	13	0	93	0
U. Central FL	103,261	44,020	15,086	14,652	29,503	0
U. FL	447,146	221,898	79,797	16,666	112,983	15,802
U. North FL	3,029	1,493	630	906	0	0
U. South FL	240,021	126,906	72,236	6,533	34,346	0
U. West FL	7,805	5,332	1,675	218	578	2
Private	216,984	155,621	5,672	22,215	9,173	24,303
Bethune-Cookman C.	723	723	0	0	0	0
Eckerd C.	317 i	317 i	0 i	0 i	0 i	0 i
Embry-Riddle Aeronautical U.	8,558	5,179	393	2,516	470	0
FL Institute of Technology	7,801	5,575	452	775	130	869
Nova Southeastern U.	5,139	1,884	1,169	0	264	1,822
U. Miami	194,446	141,943	3,658	18,924	8,309	21,612
Georgia	1,221,251	699,002	83,728	67,975	335,013	35,533
Public	838,934	405,396	71,157	46,678	303,382	12,321
Albany State U.	2,619	2,547	72	0	0	0
Ft. Valley State U.	2,596	2,558	9	0	0	29
GA Institute of Technology all campuses	410,799	237,483	10,473	29,500	127,213	6,130

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
GA Southern U.	2,042	1,746	281	15	0	0
GA State U.	45,415	25,845	2,704	1,196	12,906	2,764
Kennesaw State U.	374	311	44	19	0	0
Medical C. GA	58,808	35,841	1,987	3,055	15,693	2,232
Savannah State U.	2,094	2,094	0	0	0	0
State U. West GA	1,027	623	200	99	105	0
U. GA	313,160	96,348	55,387	12,794	147,465	1,166
Private	382,317	293,606	12,571	21,297	31,631	23,212
Clark Atlanta U.	13,576	13,075	75	0	349	77
Emory U.	311,685	243,248	10,509	5,524	29,298	23,106
Mercer U. all campuses	18,437	9,613	233	6,899	1,692	0
Morehouse C.	2,518 i	1,619 i	0 i	716 i	156 i	27 i
Morehouse School of Medicine	33,317	23,331	1,754	8,096	136	0
Morris Brown C.	303 i	301 i	0 i	0 i	0 i	2 i
Spelman C.	2,481	2,419	0	62	0	0
Hawaii	241,346	191,252	8,815	21,234	19,892	153
Public	241,346	191,252	8,815	21,234	19,892	153
U. HI Hilo	4,978	4,217	2	0	606	153
U. HI Manoa	236,368	187,035	8,813	21,234	19,286	0
Idaho	116,757	64,623	20,770	4,852	24,227	2,285
Public	116,757	64,623	20,770	4,852	24,227	2,285
Boise State U.	9,126	7,642	206	679	599	0
ID State U.	14,385	8,416	175	2,758	2,724	312
U. ID	93,246	48,565	20,389	1,415	20,904	1,973
Illinois	1,707,597	1,066,129	72,030	52,814	416,965	99,659
Public	907,547	497,002	61,568	29,464	282,289	37,224
Chicago State U.	1,280 i	1,227 i	0 i	0 i	53 i	0 i
Eastern IL U.	315 i	315 i	0 i	0 i	0 i	0 i
IL State U.	4,498	2,650	425	592	831	0
Northeastern IL U.	206	17	45	101	42	1
Northern IL U.	11,687	6,824	397	1,512	2,954	0
Southern IL U. Carbondale	53,953	15,557	6,338	7,519	21,207	3,332
Southern IL U. Edwardsville	18,973	829	758	211	17,125	50
U. IL Chicago	307,699	192,825	9,020	6,369	77,871	21,614
U. IL Springfield	1,491	493	191	1	682	124
U. IL Urbana-Champaign	506,041	275,896	43,633	13,128	161,294	12,090
Western IL U.	1,404	369	761	31	230	13
Private	800,050	569,127	10,462	23,350	134,676	62,435
Augustana C. (Rock Island, IL)	599	504	0	0	95	0
Bradley U.	1,638	671	73	450	444	0
DePaul U.	3,748	3,539	2	123	84	0
IL Institute of Technology	22,948	14,903	3,250	0	1,107	3,688
Lake Forest C.	561	228	0	35	298	0
Loyola U. Chicago	36,134	29,150	490	527	3,123	2,844
Midwestern U. (Chicago, IL)	2,816	857	0	254	1,548	157
National U. of Health Sciences	401	31	0	0	370	0
Northwestern U.	358,947	230,593	2,211	9,221	86,051	30,871
Rosalind Franklin U. of Medicine and Science	10,614	7,843	0	255	1,208	1,308
Rush U.	89,254	51,706	34	9,387	25,378	2,749
U. Chicago	272,390	229,102	4,402	3,098	14,970	20,818
Indiana	840,957	365,336	53,998	55,162	310,642	55,819
Public	759,110	315,191	51,823	47,792	294,110	50,194

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
Ball State U.	7,483	3,441	584	1,126	2,328	4
IN State U. all campuses	1,680	747	114	819	0	0
IN U. all campuses	384,168	166,913	4,274	7,939	155,170	49,872
Purdue U. all campuses	365,779	144,090	46,851	37,908	136,612	318
Private	81,847	50,145	2,175	7,370	16,532	5,625
DePauw U.	199 i	199 i	0 i	0 i	0 i	0 i
Rose-Hulman Institute of Technology	6,388	726	0	56	0	5,606
U. of Notre Dame	74,255	48,650	2,133	7,312	16,160	0
Valparaiso U.	551	404	25	2	120	0
Wabash C.	454	166	17	0	252	19
Iowa	531,770	306,237	50,647	29,465	130,679	14,742
Public	526,334	302,746	50,635	29,131	129,156	14,666
IA State U.	211,996	92,235	39,730	15,056	61,820	3,155
U. IA	312,914	209,865	10,739	14,075	66,766	11,469
U. Northern IA	1,424	646	166	0	570	42
Private	5,436	3,491	12	334	1,523	76
Des Moines U. Osteopathic Medical Ctr.	676 e	78 e	0 e	35 e	550 e	13 e
Drake U.	1,255	647	12	299	234	63
Grinnell C.	964	225	0	0	739	0
Maharishi U. of Management	2,541 e	2,541 e	0 e	0 e	0 e	0 e
Kansas	332,547	170,548	46,142	9,163	93,116	13,578
Public	332,547	170,548	46,142	9,163	93,116	13,578
KS State U.	119,306	56,088	33,730	3,407	21,799	4,282
Pittsburg State U.	2,101	744	640	524	2	191
U. KS all campuses	181,192	101,920	4,850	2,295	63,179	8,948
Wichita State U.	29,948	11,796	6,922	2,937	8,136	157
Kentucky	424,013	195,032	52,458	10,446	126,040	40,037
Public	424,013	195,032	52,458	10,446	126,040	40,037
Eastern KY U.	345	175	100	11	59	0
KY State U.	3,298	3,298	0	0	0	0
Morehead State U.	1,443	1,137	31	49	198	28
Murray State U.	4,059	1,185	1,678	115	1,081	0
Northern KY U.	876	474	33	0	292	77
U. KY all campuses	297,610	129,887	44,278	7,299	94,387	21,759
U. Louisville	110,653	54,476	5,656	2,862	29,486	18,173
Western KY U.	5,729	4,400	682	110	537	0
Louisiana	567,501	239,381	114,039	29,424	134,595	50,062
Public	428,453	141,473	106,070	15,883	118,771	46,256
Grambling State U.	1,934	1,522	412	0	0	0
LA State U. and A&M C.	222,556	55,773	77,483	6,987	68,143	14,170
LA State U. Health Sciences Ctr.	95,777	44,668	12,659	3,745	23,859	10,846
LA State U. Shreveport	345	78	220	15	0	32
LA Tech U.	16,118	4,718	1,410	169	9,505	316
McNeese State U.	834	451	121	0	253	9
Nicholls State U.	1,075	98	186	0	298	493
Southeastern LA U.	1,681	1,257	202	59	163	0
Southern U. and A&M C. all campuses	4,317	3,581	652	0	68	16
Southern U. New Orleans	556	556	0	0	0	0
U. LA Lafayette	55,218	15,850	6,003	0	13,672	19,693
U. LA Monroe	5,086	1,271	3,120	149	18	528
U. New Orleans	22,956	11,650	3,602	4,759	2,792	153
Private	139,048	97,908	7,969	13,541	15,824	3,806

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
Dillard U.	679	351	303	0	25	0
Tulane U.	132,784	92,331	7,356	13,541	15,799	3,757
Xavier U. LA	5,585	5,226	310	0	0	49
Maine	87,353	38,918	10,824	3,829	30,645	3,137
Public	83,279	36,715	10,802	3,737	29,732	2,293
U. ME	81,216	36,513	9,941	3,737	28,871	2,154
U. Southern ME	2,063 i	202 i	861 i	0 i	861 i	139 i
Private	4,074	2,203	22	92	913	844
Bates C.	1,006	679	20	6	202	99
Bowdoin C.	2,073	1,151	2	86	468	366
Colby C.	995	373	0	0	243	379
Maryland	2,269,201	1,710,103	60,817	93,749	286,103	118,429
Public	893,102	480,285	54,996	73,859	218,905	65,057
Bowie State U.	1,883	1,883	0	0	0	0
Morgan State U.	8,580	7,227	317	367	515	154
St. Mary's C. MD	322	151	166	0	5	0
Towson U.	614	302	7	59	158	88
Uniformed Services U. of the Health Sciences	89,999	62,408	0	0	23,760	3,831
U.S. Naval Academy	5,985	5,341	0	602	42	0
U. MD Baltimore	317,293	141,221	27,431	59,838	44,929	43,874
U. MD Baltimore County	49,403	37,548	4,555	546	3,925	2,829
U. MD Biotechnology Institute	48,278	24,059	116	3,175	20,928	0
U. MD Ctr. for Environmental Science	39,631	13,824	5,202	78	16,392	4,135
U. MD College Park	325,648	180,943	17,168	9,188	108,251	10,098
U. MD Eastern Shore	5,466 i	5,378 i	34 i	6 i	0 i	48 i
Private	1,376,099	1,229,818	5,821	19,890	67,198	53,372
Goucher C.	150 i	0 i	8 i	19 i	67 i	56 i
Johns Hopkins U., The ^a	1,375,014	1,229,426	5,365	19,838	67,069	53,316
Loyola C.	935	392	448	33	62	0
Massachusetts	2,000,120	1,580,959	41,699	122,022	106,923	148,517
Public	345,833	222,916	36,099	15,498	51,337	19,983
Bridgewater State C.	258	36	76	23	122	1
U. MA Amherst	120,788	65,452	3,597	4,914	38,932	7,893
U. MA Boston	15,460	5,412	1,001	0	5,861	3,186
U. MA Dartmouth	18,074	9,199	4,027	753	4,092	3
U. MA Lowell	22,163	16,655	380	3,904	1,224	0
U. MA Worcester	169,090	126,162	27,018	5,904	1,106	8,900
Private	1,654,287	1,358,043	5,600	106,524	55,586	128,534
Amherst C.	2,604	1,126	0	149	1,329	0
Boston C.	32,158 e	22,907 e	50 e	1,251 e	4,175 e	3,775 e
Boston U.	240,867	219,054	399	8,575	0	12,839
Brandeis U.	51,498	38,041	177	0	5,876	7,404
Clark U.	5,638 e	4,475 e	115 e	31 e	829 e	188 e
C. of the Holy Cross	683	538	0	36	3	106
Hampshire C.	3,051	1,181	0	63	0	1,807
Harvard U.	454,495	399,764	1,850	5,877	0	47,004
MA C. of Pharmacy and Health Sciences	457	270	0	46	15	126
MA Institute of Technology	543,448	427,552	185	72,227	11,854	31,630
Mt. Holyoke C.	2,877	1,800	46	0	129	902
New England C. of Optometry	2,297	1,958	0	109	192	38
Northeastern U.	47,283	30,659	1,633	8,316	6,675	0
Simmons C.	892	208	0	15	98	571

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
Smith C.	2,631	1,602	4	268	0	757
Tufts U.	126,432	92,997	489	7,392	11,826	13,728
Wellesley C.	5,714	3,708	266	56	0	1,684
Williams C.	3,130	1,258	0	0	1,091	781
Woods Hole Oceanographic Institution	114,087	100,456	116	72	9,138	4,305
Worcester Polytechnic Institute	14,045	8,489	270	2,041	2,356	889
Michigan	1,397,011	820,716	83,945	61,363	353,185	77,802
Public	1,389,924	817,432	83,786	60,751	351,349	76,606
Central MI U.	5,681	2,707	133	435	2,066	340
Eastern MI U.	3,266	2,375	120	266	404	101
Grand Valley State U.	4,408	221	2,423	0	1,141	623
MI State U.	325,438	143,473	48,561	8,628	109,154	15,622
MI Technological U.	35,670	18,735	980	3,761	11,790	404
Oakland U.	6,616	5,559	221	619	0	217
Saginaw Valley State U.	332	10	0	1	157	164
U. MI all campuses	769,126	521,339	16,232	32,215	156,534	42,806
Wayne State U.	225,475	114,700	15,044	12,473	67,450	15,808
Western MI U.	13,912	8,313	72	2,353	2,653	521
Private	7,087	3,284	159	612	1,836	1,196
Andrews U.	584	249	0	63	133	139
Calvin C.	1,907	530	4	73	994	306
Hope C.	2,213	1,576	0	0	224	413
Kalamazoo C.	519	254	0	0	122	143
Kettering U.	661	298	47	115	105	96
Lawrence Technological U.	655	219	108	196	132	0
U. Detroit Mercy	548 e	158 e	0 e	165 e	126 e	99 e
Minnesota	524,260	313,517	53,435	22,416	74,199	60,693
Public	517,995	309,456	53,430	22,325	72,361	60,423
MN State U. Mankato	929	115 i	351 i	280 i	183 i	0 i
St. Cloud State U.	2,005	972	155 i	213 i	367 i	298 i
U. MN all campuses	515,061	308,369	52,924	21,832	71,811	60,125
Private	6,265	4,061	5	91	1,838	270
Augsburg C.	493	493	0	0	0	0
Carleton C.	1,897	1,575	0	7	312	3
Gustavus Adolphus C.	707	533	0	80	94	0
Macalester C.	2,371	959	0	0	1,327	85
St. Olaf C.	516	347	0	0	0	169
U. of St. Thomas (St. Paul, MN)	281	154	5	4	105	13
Mississippi	347,772	211,346	52,693	9,485	68,521	5,727
Public	346,883	210,988	52,693	9,485	67,991	5,726
Alcorn State U.	7,622	7,622	0	0	0	0
Jackson State U.	31,641	28,806	0	62	2,773	0
MS State U.	191,352	82,205	47,905	6,788	54,454	0
MS Valley State U.	493	493	0	0	0	0
U. MS all campuses	79,867	59,787	3,754	987	9,967	5,372
U. Southern MS	35,908	32,075	1,034	1,648	797	354
Private	889	358	0	0	530	1
Tougaloo C.	889 i	358 i	0 i	0 i	530 i	1 i
Missouri	841,584	543,107	37,081	28,925	190,978	41,493
Public	308,893	134,335	24,387	12,206	129,868	8,097
Lincoln U. (Jefferson City, MO)	2,181	1,552	629	0	0	0
Southwest MO State U.	2,935	1,863	628	213	169	62

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
Truman State U.	588	84	9	36	459	0
U. MO-Columbia	217,550	90,304	22,807	4,177	95,769	4,493
U. MO-Kansas City	31,968	15,696	0	1,044	13,955	1,273
U. MO-Rolla	41,242	20,218	314	6,505	12,674	1,531
U. MO-St. Louis	12,429	4,618	0	231	6,842	738
Private	532,691	408,772	12,694	16,719	61,110	33,396
Kirksville C. of Osteopathic Medicine	839	333	0	0	169	337
St. Louis U. all campuses	41,189 e	36,989 e	276 e	3,605 e	75 e	244 e
U. of Health Sciences	1,098	407	0	0	686	5
Washington U. St. Louis	489,565	371,043	12,418	13,114	60,180	32,810
Montana	154,726	97,411	21,279	5,597	29,062	1,377
Public	154,726	97,411	21,279	5,597	29,062	1,377
MT State U. Bozeman	97,696	58,874	18,376	4,446	16,000	0
MT Tech of the U. MT	5,952	4,059	1,455	438	0	0
U. MT, The	51,078	34,478	1,448	713	13,062	1,377
Nebraska	324,541	129,578	12,102	20,921	142,109	19,831
Public	299,090	115,833	9,562	13,471	140,549	19,675
U. NE Kearney	713	1	653	0	24	35
U. NE Lincoln	192,846	66,933	4,689	4,941	112,802	3,481
U. NE Omaha	6,795	4,450	113	87	2,063	82
U. NE Medical Ctr.	98,736	44,449	4,107	8,443	25,660	16,077
Private	25,451	13,745	2,540	7,450	1,560	156
Creighton U.	25,451	13,745	2,540	7,450	1,560	156
Nevada	163,764	105,035	11,784	7,036	36,857	3,052
Public	163,764	105,035	11,784	7,036	36,857	3,052
Desert Research Institute	34,783	26,235	3,294	2,127	879	2,248
U. NV, Las Vegas	45,429	28,013	4,779	3,446	9,191	0
U. NV, Reno	83,552	50,787	3,711	1,463	26,787	804
New Hampshire	277,201	191,026	7,323	10,812	47,743	20,297
Public	103,935	67,917	4,034	6,032	19,312	6,640
U. NH	103,935	67,917	4,034	6,032	19,312	6,640
Private	173,266	123,109	3,289	4,780	28,431	13,657
Dartmouth C.	173,266	123,109	3,289	4,780	28,431	13,657
New Jersey	805,732	419,726	58,500	35,277	218,656	73,573
Public	591,328	287,157	54,446	25,478	163,087	61,160
C. NJ, The	3,165 i	587 i	852 i	0 i	1,726 i	0 i
Montclair State U.	1,047 i	493 i	0 i	0 i	456 i	98 i
NJ City U.	273	260	0	0	13	0
NJ Institute of Technology	74,998	30,995	7,696	675	27,881	7,751
Rowan U.	6,177	4,355	1,134	605	83	0
Rutgers, The State U. NJ all campuses	296,534	128,655	36,417	9,665	94,224	27,573
U. of Medicine and Dentistry NJ	209,134	121,812	8,347	14,533	38,704	25,738
Private	214,404	132,569	4,054	9,799	55,569	12,413
Princeton U.	188,373	111,435	2,154	7,975	54,794	12,015
Rider U.	1,276	428	42	88	530	188
Seton Hall U.	1,941	1,233	75	423	0	210
Stevens Institute of Technology	22,814	19,473	1,783	1,313	245	0
New Mexico	303,922	204,358	13,435	13,819	63,799	8,511
Public	303,922	204,358	13,435	13,819	63,799	8,511

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
NM Highlands U.	2,032	1,810	0	0	0	222
NM Institute of Mining and Technology	38,476	13,853	4,082	10,755	8,446	1,340
NM State U. all campuses	93,329	76,396	7,305	651	7,942	1,035
U. NM all campuses	170,085	112,299	2,048	2,413	47,411	5,914
New York	3,365,658	2,224,543	196,548	146,242	529,399	268,926
Public	902,077	498,010	92,920	34,271	198,194	78,682
CUNY Baruch C.	687	232	306	1	148	0
CUNY Brooklyn C.	3,917	2,559	67	241	548	502
CUNY City C.	25,947	19,711	2,696	3,183	305	52
CUNY C. Staten Island	2,730	1,624	261	76	280	489
CUNY Graduate Ctr.	5,106	3,324	0	0	280	1,502
CUNY Herbert H. Lehman C.	3,291	2,936	0	191	131	33
CUNY Hunter C.	34,931	18,836	4,410	32	7,822	3,831
CUNY John Jay C. of Criminal Justice	900	177	105	0	40	578
CUNY Medgar Evers C.	568	555	0	0	13	0
CUNY Queens C.	6,819	5,820	197	612	190	0
CUNY York C.	1,710	1,669	0	11	30	0
SUNY Albany	203,977	94,712	63,706	7,409	24,115	14,035
SUNY Binghamton	25,405	10,414	1,259	2,418	3,615	7,699
SUNY Buffalo all campuses	258,952	143,865	8,960	10,363	70,676	25,088
SUNY C. Brockport	755	574	66	0	98	17
SUNY C. Buffalo	2,375	883	13	123	867	489
SUNY C. Cortland	392	245	0	0	130	17
SUNY C. Geneseo	862	588	10	0	178	86
SUNY C. of Environmental Science and Forestry	28,568 i	5,726 i	2,072 i	1,150 i	18,191 i	1,429 i
SUNY C. of Optometry	2,435	1,856	0	126	182	271
SUNY C. Old Westbury	1,326	1,258	0	0	68	0
SUNY C. Oswego	2,055	1,342	83	17	612	1
SUNY C. Plattsburgh	1,224	896	80	23	195	30
SUNY Fredonia	193	116	23	0	11	43
SUNY Health Science Ctr. Brooklyn	40,985 i	32,218 i	256 i	2,003 i	4,590 i	1,918 i
SUNY Purchase C.	330	100	74	22	125	9
SUNY Stony Brook all campuses	213,547	123,124	6,628	4,802	63,547	15,446
SUNY Upstate Medical U.	32,090	22,650	1,648	1,468	1,207	5,117
Private	2,463,581	1,726,533	103,628	111,971	331,205	190,244
Albany C. of Pharmacy	855	235	0	541	79	0
Albany Medical C.	15,562	11,849	204	176	2,426	907
Alfred U. all campuses	6,395	1,494	1,877	1,736	1,288	0
Barnard C.	1,516 e	1,369 e	0 e	142 e	5 e	0 e
Clarkson U.	14,703	6,434	2,742	1,992	3,535	0
Colgate U.	1,927	777	0	0	708	442
Columbia U. in the City of NY	468,484	406,576	2,852	7,420	30,656	20,980
Cooper Union	150	0	0	56	0	94
Cornell U. all campuses	575,554	339,107	59,875	23,023	107,438	46,111
Fordham U.	3,391	929	591	0	372	1,499
Hamilton C. (Clinton, NY)	1,393	901	1	41	254	196
Hartwick C.	609	581	0	0	28	0
Hofstra U.	791 i	497 i	0 i	121 i	0 i	173 i
Iona C.	223	213	0	0	10	0
Ithaca C.	2,152	1,807	0	0	345	0
Long Island U. all campuses	1,377	962	0	149	213	53
Manhattan C.	271 i	271 i	0 i	0 i	0 i	0 i
Mt. Sinai School of Medicine	212,786	170,757	4,339	10,780	6,268	20,642
New School, The	5,642	2,330	0	0	0	3,312
NY Institute of Technology all campuses	3,476	1,110	142	110	2,097	17

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004
(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
NY Medical C.	33,521	25,103	178	6,253	202	1,785
NY U.	259,333	181,441	4,296	9,032	30,499	34,065
Pace U. all campuses	1,099	644	0	0	0	455
Polytechnic U.	11,627	4,660	1,893	2,497	1,594	983
Rensselaer Polytechnic Institute	56,907	36,651	4,571	6,429	7,380	1,876
Rochester Institute of Technology	19,423	12,415	1,467	4,293	0	1,248
Rockefeller U.	192,222	82,535	247	3,063	74,790	31,587
Skidmore C.	785	364	0	375	46	0
St. John's U. (Jamaica, NY)	1,574 i	1,312 i	86 i	0 i	176 i	0 i
Syracuse U. all campuses	58,276	43,162	5,430	1,611	4,428	3,645
Teachers C. Columbia U.	9,684	6,256	0	0	0	3,428
Union C. (Schenectady, NY)	4,068	664	57	2,387	684	276
U. Rochester	312,303	231,193	12,723	27,926	25,769	14,692
Vassar C.	2,249 i	414 i	57 i	0 i	0 i	1,778 i
Yeshiva U.	183,253	151,520	0	1,818	29,915	0
North Carolina	1,442,854	933,291	123,960	151,840	190,658	43,105
Public	786,960	464,287	106,450	51,694	159,297	5,232
Appalachian State U.	555	272	25	99	96	63
East Carolina U.	13,296	9,399	919	2,029	0	949
Elizabeth City State U.	1,044	1,032	12	0	0	0
Fayetteville State U.	166	161	0	0	0	5
NC Agricultural and Technical State U.	19,534	13,487	484	336	5,227	0
NC Central U.	1,219 i	1,141 i	0 i	0 i	0 i	78 i
NC State U.	292,720	103,586	86,492	40,734	59,199	2,709
U. NC Asheville	1,644	265	437	126	75	741
U. NC Chapel Hill	416,727	304,204	16,286	6,543	89,694	0
U. NC Charlotte	17,425	13,816	165	1,605	1,786	53
U. NC Greensboro	3,762	3,267	135	203	3	154
U. NC Wilmington	14,381	9,951	714	19	3,217	480
Western Carolina U.	2,414	1,633	781	0	0	0
Winston-Salem State U.	2,073 e	2,073 e	0 e	0 e	0 e	0 e
Private	655,894	469,004	17,510	100,146	31,361	37,873
Duke U.	520,871	347,896	17,245	94,359	29,471	31,900
Shaw U.	1,270	1,033	89	0	0	148
Wake Forest U.	133,753	120,075	176	5,787	1,890	5,825
North Dakota	151,710	81,724	28,498	5,622	31,203	4,663
Public	151,710	81,724	28,498	5,622	31,203	4,663
ND State U. all campuses	102,115	45,375	26,546	704	25,911	3,579
U. ND all campuses	49,595	36,349	1,952	4,918	5,292	1,084
Ohio	1,318,420	847,844	109,415	72,504	230,194	58,463
Public	1,020,803	594,422	85,914	63,167	219,626	57,674
Air Force Institute of Technology	13,001	4,664	134	4	8,199	0
Bowling Green State U. all campuses	8,271	5,318	732	104	1,381	736
Central State U.	597 i	312 i	0 i	133 i	39 i	113 i
Cleveland State U.	16,888	6,380	2,831	384	5,896	1,397
Kent State U. all campuses	12,712	9,093	917	818	1,884	0
Medical C. OH	20,159	14,591	620	360	3,185	1,403
Miami U. all campuses	15,377	5,132	1,448	905	7,365	527
Northeastern OH Universities C. of Medicine	5,601	2,964	235	100	1,870	432
OH State U. all campuses	518,088	284,675	61,831	42,763	97,526	31,293
OH U. all campuses	38,704	20,831	2,418	2,959	11,310	1,186
U. Akron all campuses	27,488	10,284	992	3,475	9,323	3,414

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
U. Cincinnati all campuses	276,326	194,965	8,981	6,958	49,821	15,601
U. Toledo	27,708	13,229	1,009	1,238	10,971	1,261
Wright State U. all campuses	38,052	20,599	3,519	2,900	10,723	311
Youngstown State U.	1,831	1,385	247	66	133	0
Private	297,617	253,422	23,501	9,337	10,568	789
Case Western Reserve U.	231,800	195,525	22,097	5,340	8,838	0
C. Wooster	281 e	281 e	0	0	0	0
Denison U.	415	224	0	0	59	132
John Carroll U.	478	197	127	0	0	154
Oberlin C.	381	291	17	36	37	0
OH Wesleyan U.	297 i	217 i	0 i	0 i	36 i	44 i
U. Dayton	63,734	56,647	1,254	3,781	1,593	459
U. Findlay, The	231	40	6	180	5	0
Oklahoma	283,408	140,863	34,257	15,013	77,796	15,479
Public	268,033	129,623	33,397	12,475	77,059	15,479
Langston U.	3,578	3,578	0	0	0	0
Northeastern State U.	1,422 i	1,261 i	119 i	14 i	28 i	0 i
OK State U. all campuses	103,915	43,345	23,380	4,326	32,365	499
Southeastern OK State U.	383	320	13	50	0	0
U. Central OK	157	71	79	0	0	7
U. OK all campuses	158,578	81,048	9,806	8,085	44,666	14,973
Private	15,375	11,240	860	2,538	737	0
U. Tulsa	15,375	11,240	860	2,538	737	0
Oregon	505,065	371,371	37,268	14,213	60,770	21,443
Public	501,624	369,378	37,138	14,200	60,076	20,832
Eastern OR U.	288	64	82	0	142	0
OR Health & Science U.	254,447	206,219	2,853	9,233	22,530	13,612
OR Institute of Technology	2,378	1,322	55	1,001	0	0
OR State U.	170,286	104,276	32,781	2,713	28,119	2,397
Portland State U.	21,433 e	13,276 e	1,072 e	668 e	4,953 e	1,464 e
Southern OR U.	836	587	0	36	65	148
U. OR	51,956	43,634	295	549	4,267	3,211
Private	3,441	1,993	130	13	694	611
Lewis and Clark C.	399	129	0	13	206	51
Pacific U.	885 i	885 i	0 i	0 i	0 i	0 i
Reed C.	1,295	702	0	0	330	263
U. Portland	634	183	130	0	37	284
Willamette U.	228	94	0	0	121	13
Pennsylvania	2,206,023	1,594,968	99,145	155,396	226,480	130,034
Public	1,142,737	796,701	67,781	98,787	145,807	33,661
Indiana U. PA all campuses	2,368	1,446	149	335	381	57
Lincoln U. (Lincoln University, PA)	526	526	0	0	0	0
PA State U. all campuses	600,139	347,996	54,553	85,570	110,662	1,358
Temple U.	76,055	50,456	3,025	6,202	9,456	6,916
U. Pittsburgh all campuses	461,693	394,444	9,977	6,639	25,308	25,325
West Chester U. PA	1,956	1,833	77	41	0	5
Private	1,063,286	798,267	31,364	56,609	80,673	96,373
Allegheny C.	1,007	476	43	0	204	284
Bryn Mawr C.	5,664	1,065	12	0	3,941	646
Bucknell U.	1,817	955	426	323	0	113
Carnegie Mellon U.	205,149	172,858	8,776	14,728	4,141	4,646
Dickinson C.	1,608	708	255	419	226	0
Drexel U.	76,120	54,963	3,254	2,344	13,071	2,488

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
Duquesne U.	8,082	3,479	307	336	3,903	57
Franklin & Marshall C.	1,300	815	0	0	256	229
Haverford C.	1,679	1,066	0	0	96	517
Juniata C.	898	778	0	32	0	88
La Salle U.	260	57	0	0	203	0
Lafayette C.	1,806	1,187	17	0	602	0
Lehigh U.	32,048	19,400	7,459	1,259	3,509	421
PA C. of Optometry	1,509	1,407	7	0	0	95
Philadelphia C. of Osteopathic Medicine	961	951	10	0	0	0
St. Joseph's U.	3,250	2,612	309	0	47	282
Swarthmore C.	2,200	1,449	12	0	540	199
Thomas Jefferson U.	112,078	92,296	6,512	8,035	1,954	3,281
U. PA	596,756	435,343	3,642	27,678	47,909	82,184
U. Scranton	1,528	1,374	6	77	71	0
U. of the Sciences Philadelphia	544	207	0	337	0	0
Villanova U.	6,455 i	4,669 i	295 i	868 i	0 i	623 i
Widener U. all campuses	267 i	47 i	0 i	0 i	0 i	220 i
Wilkes U.	300	105	22	173	0	0
Rhode Island	192,326	133,282	7,085	4,284	43,061	4,614
Public	60,947	48,590	6,974	2,474	2,909	0
U. RI	60,947	48,590	6,974	2,474	2,909	0
Private	131,379	84,692	111	1,810	40,152	4,614
Brown U.	130,741	84,126	111	1,785	40,105	4,614
Providence C.	286	214	0	25	47	0
Roger Williams U. Bristol	352	352	0	0	0	0
South Carolina	455,964	245,411	19,312	23,366	154,982	12,893
Public	453,118	242,939	19,297	23,366	154,982	12,534
Clemson U.	158,585	61,065	15,833	12,687	66,813	2,187
Coastal Carolina U.	1,260	785	31	300	122	22
C. Charleston	4,875	3,321	79	18	1,118	339
Medical U. SC	163,179	103,494	1,096	7,472	46,919	4,198
SC State U.	3,548	2,418	31	0	340	759
U. SC all campuses	121,671	71,856	2,227	2,889	39,670	5,029
Private	2,846	2,472	15	0	0	359
Benedict C.	1,035	1,020	15	0	0	0
Clafin U.	255	255	0	0	0	0
Furman U.	1,556	1,197	0	0	0	359
South Dakota	57,185	37,549	10,877	733	5,662	2,364
Public	56,897	37,276	10,877	733	5,647	2,364
Black Hills State U.	1,184	934	68	8	174	0
SD School of Mines and Technology	10,626	8,366	358	51	1,646	205
SD State U.	29,564	15,127	10,325	674	2,405	1,033
U. SD	15,523	12,849	126	0	1,422	1,126
Private	288	273	0	0	15	0
Augustana C. (Sioux Falls, SD)	288	273	0	0	15	0
Tennessee	657,965	435,982	53,673	19,890	112,324	36,096
Public	307,123	143,339	53,601	14,830	72,318	23,035
East TN State U.	7,788	4,412	1,373	0	171	1,832
Middle TN State U.	2,421	1,651	189	92	475	14
TN State U.	15,255	11,277	229	100	3,590	59
TN Technological U.	8,779	2,564	3,951	494	1,619	151

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
U. Memphis, The	44,120	14,078	3,043	284	24,291	2,424
U. TN Chattanooga	6,629	648	103	129	2,341	3,408
U. TN Martin	2,021	167	16	0	1,792	46
U. TN system office	220,110	108,542	44,697	13,731	38,039	15,101
Private	350,842	292,643	72	5,060	40,006	13,061
Fisk U.	5,000	5,000	0	0	0	0
Meharry Medical C.	27,507	26,159	0	8	0	1,340
Vanderbilt U.	318,335	261,484	72	5,052	40,006	11,721
Texas	2,880,784	1,647,212	355,426	162,157	410,789	305,200
Public	2,321,517	1,270,546	349,000	138,459	354,680	208,832
Lamar U.	3,365	1,494	1,465	87	205	114
Prairie View A&M U.	10,989	7,965	2,285	72	579	88
Sam Houston State U.	3,487 i	3,015 i	295 i	92 i	85 i	0 i
Stephen F. Austin State U.	3,663	740	191	532	1,609	591
Sul Ross State U.	1,058	261	416	0	0	381
Tarleton State U.	7,194	5,208	905	211	870	0
TX A&M U. all campuses	456,809	173,705	118,622	32,094	121,998	10,390
TX A&M U. Commerce	267	54	0	0	71	142
TX A&M U. Corpus Christi	12,266	5,685	3,061	34	2,700	786
TX A&M U. Kingsville	11,102	3,832	1,089	271	5,173	737
TX A&M U. System Health Science Ctr.	64,170	30,283	1,057	2,876	20,083	9,871
TX Southern U.	4,088	3,749	67	272	0	0
TX State U. San Marcos	9,130	3,536	2,744	59	1,709	1,082
TX Tech U.	57,592	23,181	14,291	6,224	11,430	2,466
TX Tech U. Health Science Ctr.	19,827	7,604	4,831	950	6,442	0
TX Woman's U.	2,120	1,175	637	143	0	165
U. Houston	60,962	34,468	10,192	5,297	6,119	4,886
U. Houston-Clear Lake	754	238	274	17	116	109
U. Houston-Downtown	627	449	156	0	20	2
U. North TX	11,958	5,499	1,505	618	3,255	1,081
U. North TX Health Science Ctr. Ft. Worth	18,520	13,259	608	1,954	1,697	1,002
U. TX Arlington	19,003	10,498	2,517	1,984	4,004	0
U. TX Austin	343,886	235,281	21,009	27,176	37,877	22,543
U. TX Dallas	31,274	15,733	9,113	1,016	1,368	4,044
U. TX El Paso	25,440	16,900	6,008	1,792	740	0
U. TX Health Science Ctr. Houston	147,328	106,737	5,752	7,373	12,239	15,227
U. TX Health Science Ctr. San Antonio	137,039	89,662	4,924	6,268	25,274	10,911
U. TX M. D. Anderson Cancer Ctr.	353,034	150,529	89,902	22,338	51,215	39,050
U. TX Medical Branch	166,798	102,491	16,183	5,842	29,920	12,362
U. TX San Antonio	15,738	11,644	3,211	116	767	0
U. TX Southwestern Medical Ctr. Dallas	314,403	200,888	23,298	12,493	7,100	70,624
U. TX-Pan American	3,747	2,578	960	16	15	178
West TX A&M U.	3,879	2,205	1,432	242	0	0
Private	559,267	376,666	6,426	23,698	56,109	96,368
Abilene Christian U.	229	135	0	1	93	0
Baylor C. of Medicine	476,075	312,669	3,140	18,642	52,100	89,524
Baylor U.	5,242	1,372	706	1,033	1,567	564
Jarvis Christian C.	247	232	0	0	15	0
Rice U.	60,872	51,157	1,909	2,265	0	5,541
Southern Methodist U.	10,432	6,752	462	367	2,147	704
St. Mary's U. (San Antonio, TX)	512	414	0	0	98	0
TX Christian U.	3,960	2,961	143	830	26	0
Trinity U.	1,428	805	0	560	63	0
Wiley C.	270	169	66	0	0	35

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004
(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
Utah	414,340	286,193	24,715	10,383	66,566	26,483
Public	390,775	269,064	23,450	8,370	64,577	25,314
U. UT	237,159	161,119	2,714	5,032	45,986	22,308
UT State U.	153,616	107,945	20,736	3,338	18,591	3,006
Private	23,565	17,129	1,265	2,013	1,989	1,169
Brigham Young U. all campuses	23,565	17,129	1,265	2,013	1,989	1,169
Vermont	115,778	80,242	5,007	6,867	16,376	7,286
Public	114,120	79,015	5,003	6,856	16,370	6,876
U. VT	114,120	79,015	5,003	6,856	16,370	6,876
Private	1,658	1,227	4	11	6	410
Middlebury C.	1,658	1,227	4	11	6	410
Virginia	848,556	526,823	85,427	50,903	137,512	47,891
Public	780,934	476,586	85,144	45,776	136,793	36,635
Christopher Newport U.	2,029	1,904	45	0	0	80
C. of William and Mary all campuses	49,420	26,049	4,471	468	15,294	3,138
George Mason U.	46,210	39,758	843	1,239	0	4,370
James Madison U.	5,442	2,843	1,680	0	243	676
Norfolk State U.	6,200	6,054	17	0	0	129
Old Dominion U.	34,819	21,377	5,766	3,772	3,904	0
Radford U.	195	90	105	0	0	0
U. VA all campuses	228,532	188,121	2,275	7,456	21,673	9,007
VA Commonwealth U.	132,839	89,066	3,569	9,489	26,143	4,572
VA Military Institute	543	0	3	461	59	20
VA Polytechnic Institute and State U.	268,752	95,669	66,126	22,857	69,457	14,643
VA State U.	5,953	5,655	244	34	20	0
Private	67,622	50,237	283	5,127	719	11,256
Eastern VA Medical School	33,798	17,530	283	4,709	38	11,238
Hampton U.	31,645	31,443	0	76	121	5
Roanoke C.	554	364	0	0	190	0
U. Richmond	1,625	900	0	342	370	13
Washington	896,913	705,963	40,995	50,007	71,322	28,626
Public	895,057	704,954	40,993	49,857	70,913	28,340
Central WA U.	3,134	2,200	405	181	339	9
Eastern WA U.	1,339	288	784	0	118	149
Evergreen State C.	354	354	0	0	0	0
U. WA	713,976	625,218	10,454	46,531	15,230	16,543
WA State U.	171,735	74,944	28,850	3,031	53,740	11,170
Western WA U.	4,519	1,950	500	114	1,486	469
Private	1,856	1,009	2	150	409	286
Seattle U.	744	95	2	150	398	99
U. Puget Sound	398	370	0	0	11	17
Whitman C.	714	544	0	0	0	170
West Virginia	130,057	79,482	4,777	4,035	39,311	2,452
Public	130,057	79,482	4,777	4,035	39,311	2,452
Bluefield State C.	156	156	0	0	0	0
Marshall U.	20,221	17,104	782	278	1,258	799
WV School of Osteopathic Medicine	245	0	133	0	108	4
WV State C.	1,433	1,403	30	0	0	0
WV U.	108,002	60,819	3,832	3,757	37,945	1,649
Wisconsin	955,802	562,845	41,301	21,889	247,429	82,338

TABLE 24. R&D expenditures at universities and colleges, by state, control, and source of funds: FY 2004
(Dollars in thousands)

State, control, and institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
Public	803,769	455,590	40,078	18,831	219,934	69,336
U. WI Eau Claire	1,056	721	35	10	103	187
U. WI Green Bay	1,739	1,293	40	188	150	68
U. WI La Crosse	1,963	1,221	134	168	280	160
U. WI Madison	763,875	434,423	35,872	17,911	210,191	65,478
U. WI Milwaukee	28,268	13,670	3,653	515	8,171	2,259
U. WI Oshkosh	1,252	879	47	2	140	184
U. WI Parkside	608	548	15	0	37	8
U. WI River Falls	345	106	65	15	114	45
U. WI Stevens Point	2,042	884	178	4	330	646
U. WI Stout	1,144	838	20	0	210	76
U. WI Superior	1,136	743	0	18	190	185
U. WI Whitewater	341	264	19	0	18	40
Private	152,033	107,255	1,223	3,058	27,495	13,002
Marquette U.	9,652	6,046	650	1,001	1,137	818
Medical C. WI	139,235	100,547	0	716	25,853	12,119
Milwaukee School of Engineering	3,146	662	573	1,341	505	65
Wyoming	60,054	23,186	1,993	2,494	29,370	3,011
Public	60,054	23,186	1,993	2,494	29,370	3,011
U. WY	60,054 e	23,186 e	1,993 e	2,494 e	29,370 e	3,011 e
Guam	9,458	9,205	253	0	0	0
Public	9,458	9,205	253	0	0	0
U. GU	9,458	9,205	253	0	0	0
Puerto Rico	86,514	64,573	5,404	2,965	11,551	2,021
Public	66,577	46,896	4,566	2,004	11,158	1,953
U. PR Humacao U. C.	3,382	3,201	0	0	160	21
U. PR Mayaguez Campus	16,686	7,539	3,010	562	3,792	1,783
U. PR Medical Sciences Campus	34,092	28,063	1,548	1,437	2,977	67
U. PR Rio Piedras Campus	12,417	8,093	8	5	4,229	82
Private	19,937	17,677	838	961	393	68
Ponce School of Medicine	10,140	9,179	0	961	0	0
Universidad Central del Caribe	9,797	8,498	838	0	393	68
Virgin Islands	17,874	11,598	4,633	1,639	0	4
Public	17,874	11,598	4,633	1,639	0	4
U. of the VI	17,874	11,598	4,633	1,639	0	4

e = estimated.

i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$670 million in total R&D expenditures.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 25. R&D expenditures at universities and colleges, by geographic division, state, and science and engineering field: FY 2004

(Dollars in thousands)

Division and state	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
United States	42,945,081	2,354,063	25,650,300	1,854,477	3,545,031	782,481	1,669,746	776,956	6,312,027
New England	3,322,441	280,314	1,897,786	135,372	316,940	74,132	101,286	68,453	448,158
Connecticut	649,663	12,364	521,682	12,364	30,728	22,984	13,583	966	34,992
Maine	87,353	24,356	33,706	1,856	7,614	1,338	5,436	1,323	11,724
Massachusetts	2,000,120	164,309	1,007,129	100,258	252,105	36,269	69,416	39,570	331,064
New Hampshire	277,201	46,424	147,033	5,230	10,072	6,408	5,365	13,556	43,113
Rhode Island	192,326	32,339	87,623	14,149	13,828	6,285	7,254	6,123	24,725
Vermont	115,778	522	100,613	1,515	2,593	848	232	6,915	2,540
Middle Atlantic	6,377,413	209,769	3,960,494	327,958	503,518	153,569	236,362	82,941	902,802
New Jersey	805,732	53,688	395,302	42,779	78,514	22,852	53,723	22,116	136,758
New York	3,365,658	110,115	2,264,628	118,444	279,053	76,724	95,189	32,063	389,442
Pennsylvania	2,206,023	45,966	1,300,564	166,735	145,951	53,993	87,450	28,762	376,602
East North Central	6,219,787	170,234	3,643,423	290,005	519,663	132,261	352,887	103,633	1,007,681
Illinois	1,707,597	54,134	991,834	152,902	156,892	40,386	63,444	28,276	219,729
Indiana	840,957	11,005	412,929	44,322	93,331	22,006	54,958	54,604	147,802
Michigan	1,397,011	20,126	837,193	30,636	118,381	22,223	128,699	4,497	235,256
Ohio	1,318,420	22,341	777,251	41,529	91,929	16,948	55,413	15,128	297,881
Wisconsin	955,802	62,628	624,216	20,616	59,130	30,698	50,373	1,128	107,013
West North Central	2,763,597	69,304	1,960,826	65,548	137,229	48,536	109,626	45,799	326,729
Iowa	531,770	8,360	355,317	18,001	27,445	6,370	23,388	11,849	81,040
Kansas	332,547	15,001	209,125	5,704	21,640	2,725	13,637	5,801	58,914
Minnesota	524,260	13,968	375,184	19,957	27,872	13,130	21,752	8	52,389
Missouri	841,584	15,042	684,467	10,073	28,829	15,160	22,880	552	64,581
Nebraska	324,541	5,137	227,799	8,908	13,706	9,650	14,018	17,214	28,109
North Dakota	151,710	7,444	72,692	2,594	15,358	1,403	9,476	9,660	33,083
South Dakota	57,185	4,352	36,242	311	2,379	98	4,475	715	8,613
South Atlantic	8,092,097	483,444	4,537,077	377,925	627,674	128,819	356,559	112,782	1,467,817
Delaware	114,355	12,226	29,064	3,092	17,118	3,328	6,313	7,001	36,213
District of Columbia	303,049	544	185,029	30,221	29,960	7,542	25,361	512	23,880
Florida	1,306,810	143,390	703,679	30,587	137,729	36,781	56,045	24,150	174,449
Georgia	1,221,251	30,710	655,772	73,090	60,199	32,255	63,847	6,410	298,968
Maryland	2,269,201	119,203	1,132,946	146,550	215,070	12,462	87,975	44,943	510,052
North Carolina	1,442,854	59,487	1,060,480	42,706	71,737	9,317	71,538	7,420	120,169
South Carolina	455,964	24,670	254,919	8,081	29,896	7,321	20,222	21,144	89,711
Virginia	848,556	85,967	441,041	42,366	60,292	19,536	21,949	1,087	176,318
West Virginia	130,057	7,247	74,147	1,232	5,673	277	3,309	115	38,057
East South Central	2,000,732	49,305	1,319,195	60,853	120,451	45,195	58,099	57,735	289,899

TABLE 25. R&D expenditures at universities and colleges, by geographic division, state, and science and engineering field: FY 2004

(Dollars in thousands)

Division and state	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Alabama	570,982	11,909	410,941	13,916	26,206	11,304	9,643	4,600	82,463
Kentucky	424,013	5,536	306,289	9,572	16,442	9,055	11,263	12,670	53,186
Mississippi	347,772	21,908	170,313	16,809	41,778	3,689	9,727	17,844	65,704
Tennessee	657,965	9,952	431,652	20,556	36,025	21,147	27,466	22,621	88,546
West South Central	3,914,651	207,439	2,654,897	134,810	251,024	35,930	84,069	36,594	509,888
Arkansas	182,958	4,587	141,301	2,115	11,791	474	4,010	182	18,498
Louisiana	567,501	34,215	390,189	14,544	29,618	2,542	16,662	15,344	64,387
Oklahoma	283,408	31,581	152,662	7,012	23,298	1,748	16,990	6,129	43,988
Texas	2,880,784	137,056	1,970,745	111,139	186,317	31,166	46,407	14,939	383,015
Mountain	2,636,345	289,448	1,239,836	76,226	323,567	47,099	88,335	103,273	468,561
Arizona	650,961	25,959	298,948	18,048	147,730	12,846	30,118	7,805	109,507
Colorado	771,821	160,003	374,493	20,029	80,470	16,581	15,731	5,404	99,110
Idaho	116,757	8,703	62,836	2,041	8,952	457	3,261	14,737	15,770
Montana	154,726	4,696	92,301	2,971	17,928	776	8,122	13,273	14,659
Nevada	163,764	51,822	54,343	3,277	14,868	509	6,979	16,475	15,491
New Mexico	303,922	15,054	117,508	8,119	21,030	7,164	15,063	28,399	91,585
Utah	414,340	15,135	211,655	21,301	27,318	7,174	7,261	8,621	115,875
Wyoming	60,054	8,076	27,752	440	5,271	1,592	1,800	8,559	6,564
Pacific	7,504,172	586,491	4,363,700	385,290	736,022	115,775	277,826	157,106	881,962
Alaska	146,465	68,036	29,491	12,704	2,059	41	1,268	18,462	14,404
California	5,714,383	334,509	3,303,837	318,730	644,301	81,286	205,937	86,923	738,860
Hawaii	241,346	56,024	102,461	18,189	22,713	4,486	7,407	21,382	8,684
Oregon	505,065	42,572	334,028	28,775	15,532	18,724	15,481	24,925	25,028
Washington	896,913	85,350	593,883	6,892	51,417	11,238	47,733	5,414	94,986
Outlying areas ^a	113,846	8,315	73,066	490	8,943	1,165	4,697	8,640	8,530

nec = not elsewhere classified.

^a Outlying areas include Guam, Puerto Rico, and the Virgin Islands.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
United States	42,945,081	2,354,063	25,650,300	1,854,477	3,545,031	782,481	1,669,746	776,956	6,312,027
Public	29,292,010	1,896,244	16,862,248	1,197,785	2,362,500	568,059	1,328,005	593,233	4,483,936
Private	13,653,071	457,819	8,788,052	656,692	1,182,531	214,422	341,741	183,723	1,828,091
Alabama	570,982	11,909	410,941	13,916	26,206	11,304	9,643	4,600	82,463
Public	558,962	11,904	402,841	13,898	25,809	11,304	7,318	4,600	81,288
AL A&M U.	17,429	0	13,288	274	2,163	0	237	903	564
AL State U.	1,688	0	1,416	210	0	0	62	0	0
Auburn U. all campuses	125,705	1,636	79,811	464	6,944	665	2,223	3,575	30,387
U. AL, The	33,835	1,612	3,441	2,743	3,481	2,821	2,377	40	17,320
U. AL Birmingham, The	310,950	0	288,286	1,310	3,100	7,514	983	0	9,757
U. AL Huntsville, The	49,259	6,796	2,105	8,630	9,831	18	467	77	21,335
U. South AL	20,096	1,860	14,494	267	290	286	969	5	1,925
Private	12,020	5	8,100	18	397	0	2,325	0	1,175
Oakwood C.	501 i	5 i	297 i	18 i	181 i	0 i	0 i	0 i	0 i
Tuskegee U.	11,519	0	7,803	0	216	0	2,325	0	1,175
Alaska	146,465	68,036	29,491	12,704	2,059	41	1,268	18,462	14,404
Public	146,465	68,036	29,491	12,704	2,059	41	1,268	18,462	14,404
U. AK Anchorage all campuses	13,285	0 i	0 i	0 i	0 i	0 i	0 i	13,285 i	0 i
U. AK Fairbanks all campuses	132,212	67,891	29,193	12,616	1,919	0	1,206	5,112	14,275
U. AK Southeast all campuses	968	145 i	298 i	88 i	140 i	41 i	62 i	65 i	129 i
Arizona	650,961	25,959	298,948	18,048	147,730	12,846	30,118	7,805	109,507
Public	650,811	25,945	298,900	18,041	147,691	12,836	30,107	7,791	109,500
AZ State U. main campus	152,164	11,197	29,588	7,055	21,447	8,694	10,878	7,657	55,648
Northern AZ U.	19,967	2,777	13,724	341	1,678	6	1,017	114	310
U. AZ	478,680	11,971	255,588	10,645	124,566	4,136	18,212	20	53,542
Private	150	14	48	7	39	10	11	14	7
Prescott C.	150 i	14 i	48 i	7 i	39 i	10 i	11 i	14 i	7 i
Arkansas	182,958	4,587	141,301	2,115	11,791	474	4,010	182	18,498
Public	182,327	4,500	141,154	2,115	11,603	474	4,009	182	18,290
AR State U. main campus	4,572	257	3,786	0	428	26	0	0	75
AR Tech U.	842	416 i	318 i	1 i	6 i	0 i	0 i	17 i	84 i
U. AR for Medical Sciences	74,063	0	74,063	0	0	0	0	0	0
U. AR Little Rock	4,127	43	202	661	280	0	0	0	2,941
U. AR main campus	88,918	3,248	56,053	1,116	10,107	335	3,516	0	14,543
U. AR Pine Bluff	6,246	0	5,687	0	284	0	275	0	0
U. Central AR	3,559	536 i	1,045 i	337 i	498 i	113 i	218 i	165 i	647 i

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Private	631	87	147	0	188	0	1	0	208
Hendrix C.	631	87	147	0	188	0	1	0	208
California	5,714,383	334,509	3,303,837	318,730	644,301	81,286	205,937	86,923	738,860
Public	4,253,777	282,397	2,563,855	191,227	401,194	65,876	178,519	74,569	496,140
CA State Polytechnic U. Pomona	4,059	0	3,701	0	0	0	0	0	358
CA State Polytechnic U. San Luis Obispo	9,417	557	4,921	937	372	50	111	1,156	1,313
CA State U. Bakersfield	4,946 i	797 i	1,339 i	275 i	488 i	78 i	355 i	761 i	853 i
CA State U. Chico	4,500 e	0 i	957 i	1,203 i	9 i	151 i	887 i	654 i	639 i
CA State U. Dominguez Hills	5,320	5	2,964	1,672	501	115	63	0	0
CA State U. Fresno	15,211	692	11,798	35	180	1,284	57	0	1,165
CA State U. Fullerton	4,432	311	983	15	145	86	2,873	0	19
CA State U. Hayward	2,160	299 i	660 i	207 i	330 i	114 i	119 i	124 i	307 i
CA State U. Long Beach	9,877	701	2,731	125	737	129	355	367	4,732
CA State U. Los Angeles	8,728	1,009	2,062	119	3,014	275	217	0	2,032
CA State U. Monterey Bay	3,002	2,373	566	63	0	0	0	0	0
CA State U. Northridge	10,305	1,094	1,458	288	2,006	2,113	653	1,336	1,357
CA State U. San Bernardino	8,755	671	353	1,497	590	1,245	1,025	3,290	84
Humboldt State U.	8,391 i	742 i	5,116 i	563 i	25 i	10 i	635 i	149 i	1,151 i
Naval Postgraduate School	65,092 i	11,548 i	0 i	18,708 i	3,436 i	0 i	13,971 i	7,138 i	10,291 i
San Diego State U.	66,710	2,676	25,707	1,660	4,156	9,020	5,004	7,657	10,830
San Francisco State U.	42,903	2,849 i	11,398 i	0 i	14,398 i	0 i	0 i	5,702 i	8,556 i
San Jose State U.	29,268	11,858	483	1,356	2,926	9,056	115	990	2,484
Sonoma State U.	260	0	218	0	42	0	0	0	0
U. CA Office of the President	90,233	7,639	56,382	2,164	17,713	0	1,833	4,194	308
U. CA, Berkeley	525,598	9,093	178,073	9,179	97,862	11,531	49,840	18,625	151,395
U. CA, Davis	511,757	26,891	381,707	6,223	24,424	1,625	17,683	2,750	50,454
U. CA, Irvine	257,024	6,045	171,927	14,499	22,364	3,508	9,303	614	28,764
U. CA, Los Angeles	772,569	15,396	562,755	22,251	59,270	11,982	36,461	6,307	58,147
U. CA, Riverside	110,627	11,823	58,891	3,594	7,882	1,950	8,661	3,744	14,082
U. CA, San Diego	708,690	122,387	359,714	88,614	45,849	7,369	12,825	800	71,132
U. CA, San Francisco	728,321	0	698,712	0	29,609	0	0	0	0
U. CA, Santa Barbara	151,325	26,527	4,586	13,125	25,236	3,089	11,807	8,145	58,810
U. CA, Santa Cruz	94,297	18,414	13,693	2,855	37,630	1,096	3,666	66	16,877
Private	1,460,606	52,112	739,982	127,503	243,107	15,410	27,418	12,354	242,720
CA Institute of Technology	261,098	13,136	44,270	13,098	139,631	0	1,723	9,760	39,480
Chapman U.	965	328	175	27	0	135	242	58	0
Charles R. Drew U. of Medicine and Science	51,994	0	51,994	0	0	0	0	0	0
Claremont Graduate U.	2,295	0	0	386	0	839	1,070	0	0
Harvey Mudd C.	2,180 e	20 i	1,027 i	115 i	307 i	33 i	119 i	64 i	495 i
Loma Linda U.	29,651	0	29,648	0	0	0	3	0	0

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Loyola Marymount U.	736	52	170	0	111	0	1	0	402
Mt. St. Mary's C. (Los Angeles, CA)	492	0	482	0	10	0	0	0	0
Occidental C.	2,781 i	162 i	310 i	0 i	871 i	0 i	1,151 i	287 i	0 i
Pitzer C.	320	0	0	0	0	223	97	0	0
Pomona C.	1,996	77	562	66	485	565	241	0	0
Stanford U.	671,046	17,147	373,952	24,193	89,041	8,602	10,895	0	147,216
U. Redlands	2,038	1,798	36	72	81	0	15	0	36
U. San Diego	895	60	419	7	409	0	0	0	0
U. San Francisco	1,163	157	67	0	146	398	323	72	0
U. Southern CA	426,665	18,687	233,541	89,524	11,984	4,615	11,347	2,113	54,854
U. of the Pacific	2,961	488	1,999	15	31	0	191	0	237
Western U. of Health Sciences	1,330	0	1,330	0	0	0	0	0	0
Colorado	771,821	160,003	374,493	20,029	80,470	16,581	15,731	5,404	99,110
Public	757,944	159,698	370,682	19,822	77,357	14,200	15,077	5,272	95,836
CO School of Mines	27,087	2,008	0	699	6,328	0	12	0	18,040
CO State U.	214,888	71,410	96,375	4,577	10,230	3,784	3,647	3,041	21,824
CO State U. Pueblo	786	0	434	15	327	0	1	0	9
Ft. Lewis C.	227	14	139	0	64	0	10	0	0
U.S. Air Force Academy	29,998	0	742	4,373	2,926	474	849	0	20,634
U. CO Boulder	234,311	85,731	30,493	8,915	56,788	9,410	8,924	1,735	32,315
U. CO Colorado Springs	3,526	12	539	256	296	275	336	0	1,812
U. CO Denver	5,992	399	2,134	980	388	223	663	3	1,202
U. CO Health Sciences Ctr.	239,163	0	239,163	0	0	0	0	0	0
U. Northern CO	1,966	124	663	7	10	34	635	493	0
Private	13,877	305	3,811	207	3,113	2,381	654	132	3,274
CO C.	1,377 i	186 i	265 i	92 i	274 i	85 i	343 i	132 i	0 i
U. Denver	12,500	119	3,546	115	2,839	2,296	311	0	3,274
Connecticut	649,663	12,364	521,682	12,364	30,728	22,984	13,583	966	34,992
Public	212,914	8,412	150,276	3,920	7,523	12,910	7,112	684	22,077
Central CT State U.	388	0	100	0	38	2	248	0	0
Southern CT State U.	424	0	0	191	233	0	0	0	0
U.S. Coast Guard Academy	866	0	0	0	5	0	0	0	861
U. CT all campuses	211,236	8,412	150,176	3,729	7,247	12,908	6,864	684	21,216
Private	436,749	3,952	371,406	8,444	23,205	10,074	6,471	282	12,915
CT C.	626 i	4 i	242 i	34 i	145 i	2 i	27 i	23 i	149 i
Fairfield U.	1,926	1	330	128	428	216	500	255	68
Trinity C. (Hartford, CT)	768	82	114	8	146	252	72	0	94
U. Hartford	1,136	0	55	42	76	138	291	0	534
U. New Haven	1,724 i	0 i	0 i	1,720 i	0 i	0 i	0 i	4 i	0 i

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Wesleyan U.	7,741	343	3,666	156	2,274	1,217	85	0	0
Yale U.	422,828	3,522	366,999	6,356	20,136	8,249	5,496	0	12,070
Delaware	114,355	12,226	29,064	3,092	17,118	3,328	6,313	7,001	36,213
Public	114,355	12,226	29,064	3,092	17,118	3,328	6,313	7,001	36,213
DE State U.	4,370 i	0 i	3,820 i	269 i	281 i	0 i	0 i	0 i	0 i
U. DE	109,985	12,226	25,244	2,823	16,837	3,328	6,313	7,001	36,213
District of Columbia	303,049	544	185,029	30,221	29,960	7,542	25,361	512	23,880
Public	4,693	169	1,954	0	516	0	1,672	222	160
U. DC	4,693	169	1,954	0	516	0	1,672	222	160
Private	298,356	375	183,075	30,221	29,444	7,542	23,689	290	23,720
American U.	1,745	0	42	41	328	356	634	0	344
Catholic U. America, The	23,610	0	1,482	0	18,820	1,181	500	0	1,627
Gallaudet U.	1,804	0	392	0	0	1,355	57	0	0
George Washington U.	103,473	375	42,195	28,287	3,041	1,125	11,472	148	16,830
Georgetown U.	126,320	0	111,732	356	2,806	777	10,649	0	0
Howard U.	41,404	0	27,232	1,537	4,449	2,748	377	142	4,919
Florida	1,306,810	143,390	703,679	30,587	137,729	36,781	56,045	24,150	174,449
Public	1,089,826	94,293	569,422	27,760	132,363	26,052	53,514	22,913	163,509
FL A&M U.	31,408	2,512	21,046	625	1,980	67	1	277	4,900
FL Atlantic U.	23,767	1,518	7,115	951	5,646	533	813	0	7,191
FL Gulf Coast U.	1,407	1,083	307	0	17	0	0	0	0
FL International U.	63,545	16,191	15,633	3,756	6,496	2,597	13,846	652	4,374
FL State U.	168,132	21,459	32,559	10,475	50,839	8,574	15,029	255	28,942
New C. FL	305	98	79	12	22	24	70	0	0
U. Central FL	103,261	13,747	9,955	509	27,738	2,016	7,759	21,281	20,256
U. FL	447,146	7,879	311,513	7,165	33,960	8,952	10,482	0	67,195
U. North FL	3,029	0	1,239	131	220	88	592	0	759
U. South FL	240,021	28,375	169,407	162	5,006	3,164	3,567	448	29,892
U. West FL	7,805	1,431	569	3,974	439	37	1,355	0	0
Private	216,984	49,097	134,257	2,827	5,366	10,729	2,531	1,237	10,940
Bethune-Cookman C.	723	0	589	0	134	0	0	0	0
Eckerd C.	317 i	33 i	114 i	15 i	84 i	26 i	7 i	24 i	14 i
Embry-Riddle Aeronautical U.	8,558	224	0	56	965	0	0	829	6,484
FL Institute of Technology	7,801	1,264	924	2,451	1,657	216	0	0	1,289
Nova Southeastern U.	5,139	3,256	1,206	0	0	293	0	384	0
U. Miami	194,446	44,320	131,424	305	2,526	10,194	2,524	0	3,153
Georgia	1,221,251	30,710	655,772	73,090	60,199	32,255	63,847	6,410	298,968

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Public	838,934	30,610	314,309	71,883	46,490	28,925	61,437	2,050	283,230
Albany State U.	2,619	228	847	32	15	0	779	267	451
Ft. Valley State U.	2,596	0	2,596	0	0	0	0	0	0
GA Institute of Technology all campuses	410,799	15,046	16,907	61,006	26,380	3,236	11,010	1,663	275,551
GA Southern U.	2,042	479	1,244	75	161	50	33	0	0
GA State U.	45,415	397	14,509	1,712	6,596	11,634	10,447	120	0
Kennesaw State U.	374	0	23	40	311	0	0	0	0
Medical C. GA	58,808	0	58,808	0	0	0	0	0	0
Savannah State U.	2,094	1,169	437	0	0	0	0	0	488
State U. West GA	1,027	400	275	28	294	0	30	0	0
U. GA	313,160	12,891	218,663	8,990	12,733	14,005	39,138	0	6,740
Private	382,317	100	341,463	1,207	13,709	3,330	2,410	4,360	15,738
Clark Atlanta U.	13,576	0	3,919	501	3,337	263	544	3,384	1,628
Emory U.	311,685	100	298,183	497	8,774	2,461	1,670	0	0
Mercer U. all campuses	18,437	0	3,569	64	512	8	8	166	14,110
Morehouse C.	2,518 i	0 i	968 i	54 i	258 i	240 i	188 i	810 i	0 i
Morehouse School of Medicine	33,317	0	33,317	0	0	0	0	0	0
Morris Brown C.	303 i	0 i	65 i	2 i	183 i	53 i	0 i	0 i	0 i
Spelman C.	2,481	0	1,442	89	645	305	0	0	0
Hawaii	241,346	56,024	102,461	18,189	22,713	4,486	7,407	21,382	8,684
Public	241,346	56,024	102,461	18,189	22,713	4,486	7,407	21,382	8,684
U. HI Hilo	4,978	1,133	3,447	0	60	338	0	0	0
U. HI Manoa	236,368	54,891	99,014	18,189	22,653	4,148	7,407	21,382	8,684
Idaho	116,757	8,703	62,836	2,041	8,952	457	3,261	14,737	15,770
Public	116,757	8,703	62,836	2,041	8,952	457	3,261	14,737	15,770
Boise State U.	9,126	2,192	2,326	326	1,119	249	93	103	2,718
ID State U.	14,385	1,624	5,323	124	4,683	7	787	1,400	437
U. ID	93,246	4,887	55,187	1,591	3,150	201	2,381	13,234	12,615
Illinois	1,707,597	54,134	991,834	152,902	156,892	40,386	63,444	28,276	219,729
Public	907,547	48,219	402,185	132,833	73,312	23,131	49,969	21,757	156,141
Chicago State U.	1,280 i	0 i	0 i	0 i	0 i	0 i	0 i	1,280 i	0 i
Eastern IL U.	315 i	55 i	101 i	28 i	42 i	34 i	19 i	16 i	20 i
IL State U.	4,498	100	2,796	163	1,030	41	301	67	0
Northeastern IL U.	206	128	5	13	8	43	0	9	0
Northern IL U.	11,687	1,463	1,842	581	5,861	1,614	0	0	326
Southern IL U. Carbondale	53,953	1,568	32,716	767	1,744	568	1,828	2,637	12,125
Southern IL U. Edwardsville	18,973	318	2,582	1,050	973	0	4,478	4,095	5,477
U. IL Chicago	307,699	3,265	229,586	12,820	13,385	6,566	14,592	9,324	18,161
U. IL Springfield	1,491	170	96	0	16	0	1,181	28	0

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
U. IL Urbana-Champaign	506,041	41,152	131,495	117,271	50,152	14,265	27,373	4,301	120,032
Western IL U.	1,404	0	966	140	101	0	197	0	0
Private	800,050	5,915	589,649	20,069	83,580	17,255	13,475	6,519	63,588
Augustana C. (Rock Island, IL)	599	75	101	0	328	0	0	95	0
Bradley U.	1,638	0	208	138	369	0	8	56	859
DePaul U.	3,748	19	269	397	85	2,685	293	0	0
IL Institute of Technology	22,948	0	4,877	1,172	9,148	434	9	0	7,308
Lake Forest C.	561	0	338	37	106	14	66	0	0
Loyola U. Chicago	36,134	8	34,145	156	797	707	321	0	0
Midwestern U. (Chicago, IL)	2,816	0	2,816	0	0	0	0	0	0
National U. of Health Sciences	401	0	401	0	0	0	0	0	0
Northwestern U.	358,947	911	250,795	4,965	27,063	4,098	9,450	6,368	55,297
Rosalind Franklin U. of Medicine and Science	10,614	0	10,095	0	0	519	0	0	0
Rush U.	89,254	0	86,802	0	0	2,452	0	0	0
U. Chicago	272,390	4,902	198,802	13,204	45,684	6,346	3,328	0	124
Indiana	840,957	11,005	412,929	44,322	93,331	22,006	54,958	54,604	147,802
Public	759,110	10,987	400,374	38,829	72,055	18,064	50,415	40,244	128,142
Ball State U.	7,483	566	3,249	1,353	909	93	1,142	60	111
IN State U. all campuses	1,680	339	559	0	86	243	453	0	0
IN U. all campuses	384,168	5,458	233,402	16,367	51,497	12,234	32,037	29,991	3,182
Purdue U. all campuses	365,779	4,624	163,164	21,109	19,563	5,494	16,783	10,193	124,849
Private	81,847	18	12,555	5,493	21,276	3,942	4,543	14,360	19,660
DePauw U.	199 i	18 i	47 i	14 i	58 i	9 i	3 i	18 i	32 i
Rose-Hulman Institute of Technology	6,388	0	0	1,876	1,265	0	0	0	3,247
U. of Notre Dame	74,255	0	12,420	3,577	19,271	3,932	4,531	14,309	16,215
Valparaiso U.	551	0	40	21	324	0	0	0	166
Wabash C.	454	0	48	5	358	1	9	33	0
Iowa	531,770	8,360	355,317	18,001	27,445	6,370	23,388	11,849	81,040
Public	526,334	8,109	351,802	17,928	26,505	6,275	23,213	11,462	81,040
IA State U.	211,996	5,768	103,733	14,475	10,306	798	17,597	11,021	48,298
U. IA	312,914	2,016	247,550	3,367	16,081	5,477	5,240	441	32,742
U. Northern IA	1,424	325	519	86	118	0	376	0	0
Private	5,436	251	3,515	73	940	95	175	387	0
Des Moines U. Osteopathic Medical Ctr.	676 e	0 e	676 e	0 e	0 e	0 e	0 e	0 e	0 e
Drake U.	1,255	251	138	0	382	26	71	387	0
Grinnell C.	964	0	170	63	558	69	104	0	0
Maharishi U. of Management	2,541 e	0 e	2,531 e	10 e	0 e	0 e	0 e	0 e	0 e

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Kansas	332,547	15,001	209,125	5,704	21,640	2,725	13,637	5,801	58,914
Public	332,547	15,001	209,125	5,704	21,640	2,725	13,637	5,801	58,914
KS State U.	119,306	526	78,673	3,948	11,048	687	3,844	2,754	17,826
Pittsburg State U.	2,101	2	279	3	1	0	0	0	1,816
U. KS all campuses	181,192	14,438	128,426	1,384	7,817	944	9,314	3,047	15,822
Wichita State U.	29,948	35	1,747	369	2,774	1,094	479	0	23,450
Kentucky	424,013	5,536	306,289	9,572	16,442	9,055	11,263	12,670	53,186
Public	424,013	5,536	306,289	9,572	16,442	9,055	11,263	12,670	53,186
Eastern KY U.	345	7	205	2	55	15	27	34	0
KY State U.	3,298	6	3,148	0	0	0	0	0	144
Morehead State U.	1,443	290	321	8	124	194	501	0	5
Murray State U.	4,059	769	2,132	83	237	4	781	0	53
Northern KY U.	876	0	266	165	205	93	147	0	0
U. KY all campuses	297,610	3,549	206,585	8,649	9,933	5,099	7,889	12,200	43,706
U. Louisville	110,653	794	92,381	555	2,298	3,163	1,901	331	9,230
Western KY U.	5,729	121	1,251	110	3,590	487	17	105	48
Louisiana	567,501	34,215	390,189	14,544	29,618	2,542	16,662	15,344	64,387
Public	428,453	33,054	270,774	12,297	24,587	2,093	13,009	14,923	57,716
Grambling State U.	1,934	53	1,224	48	609	0	0	0	0
LA State U. and A&M C.	222,556	29,364	125,640	4,417	14,428	262	6,469	7,363	34,613
LA State U. Health Sciences Ctr.	95,777	0	95,777	0	0	0	0	0	0
LA State U. Shreveport	345	0	298	10	0	0	37	0	0
LA Tech U.	16,118	0	2,690	1,202	1,642	140	761	0	9,683
McNeese State U.	834	441	46	76	68	45	1	0	157
Nicholls State U.	1,075	0	449	28	16	507	75	0	0
Southeastern LA U.	1,681	0	1,556	20	104	0	1	0	0
Southern U. and A&M C. all campuses	4,317	1,201	1,377	0	752	0	772	0	215
Southern U. New Orleans	556	0	133	10	0	0	0	413	0
U. LA Lafayette	55,218	347	35,099	5,983	1,055	344	958	7,147	4,285
U. LA Monroe	5,086	185	4,532	83	16	0	270	0	0
U. New Orleans	22,956	1,463	1,953	420	5,897	795	3,665	0	8,763
Private	139,048	1,161	119,415	2,247	5,031	449	3,653	421	6,671
Dillard U.	679	0	61	40	578	0	0	0	0
Tulane U.	132,784	897	115,925	2,013	2,942	449	3,653	421	6,484
Xavier U. LA	5,585	264	3,429	194	1,511	0	0	0	187
Maine	87,353	24,356	33,706	1,856	7,614	1,338	5,436	1,323	11,724
Public	83,279	23,243	32,483	1,794	6,551	1,222	4,939	1,323	11,724

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
U. ME	81,216	22,830	31,107	1,687	6,551	1,222	4,772	1,323	11,724
U. Southern ME	2,063 i	413 i	1,376 i	107 i	0 i	0 i	167 i	0 i	0 i
Private	4,074	1,113	1,223	62	1,063	116	497	0	0
Bates C.	1,006	286	369	2	338	11	0	0	0
Bowdoin C.	2,073	765	684	39	434	101	50	0	0
Colby C.	995	62	170	21	291	4	447	0	0
Maryland	2,269,201	119,203	1,132,946	146,550	215,070	12,462	87,975	44,943	510,052
Public	893,102	80,604	512,554	44,476	66,158	6,606	84,686	5,117	92,901
Bowie State U.	1,883	0	235	1,507	0	0	141	0	0
Morgan State U.	8,580	0	1,323	2,480	674	2	199	83	3,819
St. Mary's C. MD	322	78	230	0	14	0	0	0	0
Towson U.	614	0	232	200	65	3	114	0	0
Uniformed Services U. of the Health Sciences	89,999	0	89,850	0	0	149	0	0	0
U.S. Naval Academy	5,985	271	0	1,070	1,075	151	70	0	3,348
U. MD Baltimore	317,293	0	317,293	0	0	0	0	0	0
U. MD Baltimore County	49,403	17,943	3,521	5,899	9,354	1,503	4,290	3,925	2,968
U. MD Biotechnology Institute	48,278	8,756	39,522	0	0	0	0	0	0
U. MD Ctr. for Environmental Science	39,631	39,631	0	0	0	0	0	0	0
U. MD College Park	325,648	11,158	58,758	33,320	54,976	4,798	79,872	0	82,766
U. MD Eastern Shore	5,466 i	2,767 i	1,590 i	0 i	0 i	0 i	0 i	1,109 i	0 i
Private	1,376,099	38,599	620,392	102,074	148,912	5,856	3,289	39,826	417,151
Goucher C.	150 i	14 i	48 i	7 i	39 i	10 i	11 i	14 i	7 i
Johns Hopkins U., The ^a	1,375,014	38,585	619,835	101,850	148,780	5,846	3,167	39,812	417,139
Loyola C.	935	0	509	217	93	0	111	0	5
Massachusetts	2,000,120	164,309	1,007,129	100,258	252,105	36,269	69,416	39,570	331,064
Public	345,833	15,457	211,942	20,453	40,990	6,678	14,689	1,349	34,275
Bridgewater State C.	258	19	18	9	41	3	168	0	0
U. MA Amherst	120,788	3,387	34,791	18,674	32,108	5,077	3,010	696	23,045
U. MA Boston	15,460	1,757	2,596	474	614	1,268	8,630	15	106
U. MA Dartmouth	18,074	8,345	1,529	905	1,791	162	299	29	5,014
U. MA Lowell	22,163	1,949	3,918	391	6,436	168	2,582	609	6,110
U. MA Worcester	169,090	0	169,090	0	0	0	0	0	0
Private	1,654,287	148,852	795,187	79,805	211,115	29,591	54,727	38,221	296,789
Amherst C.	2,604	311	702	48	1,085	156	302	0	0
Boston C.	32,158 e	514 e	4,395 e	12,544 e	8,225 e	870 e	5,610 e	0 e	0 e
Boston U.	240,867	3,890	164,576	4,565	24,437	6,622	1,085	12,480	23,212
Brandeis U.	51,498	0	27,311	1,859	6,363	3,208	12,757	0	0
Clark U.	5,638 e	1,394 e	507 e	32 e	786 e	582 e	31 e	0 e	2,306 e

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
C. of the Holy Cross	683	0	16	107	456	97	7	0	0
Hampshire C.	3,051	176	62	688	352	216	832	217	508
Harvard U.	454,495	15,690	351,469	3,260	41,824	8,245	17,914	0	16,093
MA C. of Pharmacy and Health Sciences	457	0	457	0	0	0	0	0	0
MA Institute of Technology	543,448	28,648	130,170	49,579	104,868	1,568	6,195	21,647	200,773
Mt. Holyoke C.	2,877	578	701	775	746	21	56	0	0
New England C. of Optometry	2,297	0	2,297	0	0	0	0	0	0
Northeastern U.	47,283	0	8,253	2,633	14,081	3,514	2,665	0	16,137
Simmons C.	892	0	48	0	276	23	545	0	0
Smith C.	2,631	135	994	285	336	255	72	28	526
Tufts U.	126,432	856	101,374	1,640	5,374	4,042	5,956	0	7,190
Wellesley C.	5,714	38	701	117	723	122	285	3,728	0
Williams C.	3,130	74 i	668 i	249 i	535 i	50 i	213 i	121 i	1,220 i
Woods Hole Oceanographic Institution	114,087	96,548	0	0	0	0	0	0	17,539
Worcester Polytechnic Institute	14,045	0	486	1,424	648	0	202	0	11,285
Michigan	1,397,011	20,126	837,193	30,636	118,381	22,223	128,699	4,497	235,256
Public	1,389,924	19,962	835,693	30,011	115,961	22,105	128,319	4,226	233,647
Central MI U.	5,681	206	797	198	2,886	268	242	1,060	24
Eastern MI U.	3,266	30	1,044	49	118	753	69	0	1,203
Grand Valley State U.	4,408	1,583	409	0	74	21	168	0	2,153
MI State U.	325,438	1,409	203,707	7,784	52,277	6,472	27,952	909	24,928
MI Technological U.	35,670	6,820	809	1,952	2,159	0	538	880	22,512
Oakland U.	6,616	0	2,684	643	1,298	21	36	0	1,934
Saginaw Valley State U.	332	7	41	123	36	0	0	70	55
U. MI all campuses	769,126	8,166	441,349	13,893	38,783	10,823	92,602	448	163,062
Wayne State U.	225,475	108	182,077	2,710	15,325	3,533	6,425	859	14,438
Western MI U.	13,912	1,633	2,776	2,659	3,005	214	287	0	3,338
Private	7,087	164	1,500	625	2,420	118	380	271	1,609
Andrews U.	584	0	124	103	172	3	177	0	5
Calvin C.	1,907	89	470	293	607	112	195	51	90
Hope C.	2,213	75	655	164	1,171	0	0	0	148
Kalamazoo C.	519	0	245	45	222	0	0	7	0
Kettering U.	661	0	0	20	43	0	0	0	598
Lawrence Technological U.	655	0	0	0	0	0	8	0	647
U. Detroit Mercy	548 e	0 e	6 e	0 e	205 e	3 e	0 e	213 e	121 e
Minnesota	524,260	13,968	375,184	19,957	27,872	13,130	21,752	8	52,389
Public	517,995	12,464	373,716	19,320	26,005	12,872	21,224	8	52,386
MN State U. Mankato	929	77 i	585 i	149 i	6 i	8 i	61 i	8 i	35 i
St. Cloud State U.	2,005	155	641	85	125	0	955	0	44

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
U. MN all campuses	515,061	12,232	372,490	19,086	25,874	12,864	20,208	0	52,307
Private	6,265	1,504	1,468	637	1,867	258	528	0	3
Augsburg C.	493	386	0	107	0	0	0	0	0
Carleton C.	1,897	887	409	118	404	76	3	0	0
Gustavus Adolphus C.	707	87	138	32	410	11	29	0	0
Macalester C.	2,371	144	514	380	710	148	475	0	0
St. Olaf C.	516	0	316	0	158	21	21	0	0
U. of St. Thomas (St. Paul, MN)	281	0	91	0	185	2	0	0	3
Mississippi	347,772	21,908	170,313	16,809	41,778	3,689	9,727	17,844	65,704
Public	346,883	21,908	169,865	16,613	41,533	3,689	9,727	17,844	65,704
Alcorn State U.	7,622	0	7,622	0	0	0	0	0	0
Jackson State U.	31,641	3,757	8,565	4,414	5,014	1,240	343	7,637	671
MS State U.	191,352	4,815	94,584	11,625	10,566	2,099	6,580	5,950	55,133
MS Valley State U.	493	0	183	218	78	0	0	0	14
U. MS all campuses	79,867	0	52,366	224	17,555	201	1,700	429	7,392
U. Southern MS	35,908	13,336	6,545	132	8,320	149	1,104	3,828	2,494
Private	889	0	448	196	245	0	0	0	0
Tougaloo C.	889 i	0 i	448 i	196 i	245 i	0 i	0 i	0 i	0 i
Missouri	841,584	15,042	684,467	10,073	28,829	15,160	22,880	552	64,581
Public	308,893	9,330	198,760	3,997	14,839	10,625	18,729	459	52,154
Lincoln U. (Jefferson City, MO)	2,181	105	2,076	0	0	0	0	0	0
Southwest MO State U.	2,935	97	1,039	4	1,548	0	29	0	218
Truman State U.	588	0	77	11	41	0	0	459	0
U. MO-Columbia	217,550	1,945	165,113	2,841	4,850	7,273	14,648	0	20,880
U. MO-Kansas City	31,968	0	24,032	488	1,867	2,230	417	0	2,934
U. MO-Rolla	41,242	7,183	661	337	4,865	19	55	0	28,122
U. MO-St. Louis	12,429	0	5,762	316	1,668	1,103	3,580	0	0
Private	532,691	5,712	485,707	6,076	13,990	4,535	4,151	93	12,427
Kirksville C. of Osteopathic Medicine	839	0	839	0	0	0	0	0	0
St. Louis U. all campuses	41,189 e	819 e	39,869 e	161 e	85 e	60 e	102 e	93 e	0 e
U. of Health Sciences	1,098	0	1,098	0	0	0	0	0	0
Washington U. St. Louis	489,565	4,893	443,901	5,915	13,905	4,475	4,049	0	12,427
Montana	154,726	4,696	92,301	2,971	17,928	776	8,122	13,273	14,659
Public	154,726	4,696	92,301	2,971	17,928	776	8,122	13,273	14,659
MT State U. Bozeman	97,696	1,184	58,661	1,294	13,947	0	3,014	7,620	11,976
MT Tech of the U. MT	5,952	2,828	290	2	242	0	0	0	2,590
U. MT, The	51,078	684	33,350	1,675	3,739	776	5,108	5,653	93

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Nebraska	324,541	5,137	227,799	8,908	13,706	9,650	14,018	17,214	28,109
Public	299,090	5,004	202,657	8,900	13,548	9,650	14,008	17,214	28,109
U. NE Kearney	713	3	557	0	117	2	33	1	0
U. NE Lincoln	192,846	4,925	102,350	7,063	13,287	8,660	13,097	16,922	26,542
U. NE Omaha	6,795	76	1,014	1,837	144	988	878	291	1,567
U. NE Medical Ctr.	98,736	0	98,736	0	0	0	0	0	0
Private	25,451	133	25,142	8	158	0	10	0	0
Creighton U.	25,451	133	25,142	8	158	0	10	0	0
Nevada	163,764	51,822	54,343	3,277	14,868	509	6,979	16,475	15,491
Public	163,764	51,822	54,343	3,277	14,868	509	6,979	16,475	15,491
Desert Research Institute	34,783	26,318	0	0	0	0	0	8,465	0
U. NV, Las Vegas	45,429	17,432 i	6,107 i	1,959 i	7,082 i	0 i	5,939 i	0 i	6,910 i
U. NV, Reno	83,552	8,072	48,236	1,318	7,786	509	1,040	8,010	8,581
New Hampshire	277,201	46,424	147,033	5,230	10,072	6,408	5,365	13,556	43,113
Public	103,935	45,307	26,522	403	4,540	338	4,299	1,606	20,920
U. NH	103,935	45,307	26,522	403	4,540	338	4,299	1,606	20,920
Private	173,266	1,117	120,511	4,827	5,532	6,070	1,066	11,950	22,193
Dartmouth C.	173,266	1,117	120,511	4,827	5,532	6,070	1,066	11,950	22,193
New Jersey	805,732	53,688	395,302	42,779	78,514	22,852	53,723	22,116	136,758
Public	591,328	28,736	354,889	26,222	43,274	12,935	26,142	20,619	78,511
C. NJ, The	3,165 i	0 i	351 i	633 i	177 i	328 i	323 i	1,204 i	149 i
Montclair State U.	1,047 i	375 i	317 i	266 i	34 i	55 i	0 i	0 i	0 i
NJ City U.	273	2	2	4	263	2	0	0	0
NJ Institute of Technology	74,998	0	0	6,430	8,139	0	196	17,945	42,288
Rowan U.	6,177	0	111	724	1,761	1,172	173	0	2,236
Rutgers, The State U. NJ all campuses	296,534	28,359	144,974	18,165	32,900	11,378	25,450	1,470	33,838
U. of Medicine and Dentistry NJ	209,134	0	209,134	0	0	0	0	0	0
Private	214,404	24,952	40,413	16,557	35,240	9,917	27,581	1,497	58,247
Princeton U.	188,373	17,067	38,198	12,298	31,297	9,863	27,524	0	52,126
Rider U.	1,276	10	519	0	41	54	19	633	0
Seton Hall U.	1,941	0	1,223	0	680	0	38	0	0
Stevens Institute of Technology	22,814	7,875	473	4,259	3,222	0	0	864	6,121
New Mexico	303,922	15,054	117,508	8,119	21,030	7,164	15,063	28,399	91,585
Public	303,922	15,054	117,508	8,119	21,030	7,164	15,063	28,399	91,585
NM Highlands U.	2,032	202	244	0	1,115	471	0	0	0
NM Institute of Mining and Technology	38,476	10,031	1,106	363	2,390	2	0	6,561	18,023

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
NM State U. all campuses	93,329	833	25,766	2,865	9,456	1,026	2,551	250	50,582
U. NM all campuses	170,085	3,988	90,392	4,891	8,069	5,665	12,512	21,588	22,980
New York	3,365,658	110,115	2,264,628	118,444	279,053	76,724	95,189	32,063	389,442
Public	902,077	42,190	513,874	33,979	105,511	27,445	32,785	3,874	142,419
CUNY Baruch C.	687	2	32	37	74	148	191	203	0
CUNY Brooklyn C.	3,917	109	774	971	409	1,334	304	0	16
CUNY City C.	25,947	511	5,847	745	9,541	390	101	0	8,812
CUNY C. Staten Island	2,730	3	758	239	1,555	58	19	0	98
CUNY Graduate Ctr.	5,106	0	1,231	1,652	38	427	761	997	0
CUNY Herbert H. Lehman C.	3,291	25	285	432	156	2,330	63	0	0
CUNY Hunter C.	34,931	4,223	12,552	402	7,673	6,133	3,791	157	0
CUNY John Jay C. of Criminal Justice	900	8	0	74	6	146	55	611	0
CUNY Medgar Evers C.	568	94	84	266	124	0	0	0	0
CUNY Queens C.	6,819	339	3,797	388	1,251	781	263	0	0
CUNY York C.	1,710	0	1,536	0	174	0	0	0	0
SUNY Albany	203,977	7,391	90,232	4,262	30,653	1,797	13,158	0	56,484
SUNY Binghamton	25,405	838	3,244	1,773	3,554	3,890	3,990	39	8,077
SUNY Buffalo all campuses	258,952	1,734	185,181	10,865	16,751	4,749	4,566	712	34,394
SUNY C. Brockport	755	23	626	0	44	10	0	52	0
SUNY C. Buffalo	2,375	1,204	104	0	20	230	817	0	0
SUNY C. Cortland	392	61	196	0	32	12	91	0	0
SUNY C. Geneseo	862	4	201	60	378	195	24	0	0
SUNY C. of Environmental Science and Forestry	28,568 i	2,780 i	13,579 i	0 i	2,270 i	0 i	283 i	0 i	9,656 i
SUNY C. of Optometry	2,435	0	2,435	0	0	0	0	0	0
SUNY C. Old Westbury	1,326	0	973	10	288	0	55	0	0
SUNY C. Oswego	2,055	250	8	235	115	1,325	48	74	0
SUNY C. Plattsburgh	1,224	531	55	0	565	18	55	0	0
SUNY Fredonia	193	29	61	0	103	0	0	0	0
SUNY Health Science Ctr. Brooklyn	40,985 i	0 i	40,985 i	0 i	0 i	0 i	0 i	0 i	0 i
SUNY Purchase C.	330	70	43	0	0	0	0	217	0
SUNY Stony Brook all campuses	213,547	21,961	116,965	11,568	29,737	3,472	4,150	812	24,882
SUNY Upstate Medical U.	32,090	0	32,090	0	0	0	0	0	0
Private	2,463,581	67,925	1,750,754	84,465	173,542	49,279	62,404	28,189	247,023
Albany C. of Pharmacy	855	0	855	0	0	0	0	0	0
Albany Medical C.	15,562	0	15,562	0	0	0	0	0	0
Alfred U. all campuses	6,395	51	0	0	6	0	0	0	6,338
Barnard C.	1,516 e	95 e	212 e	42 e	280 e	820 e	67 e	0 e	0 e
Clarkson U.	14,703	0	751	280	3,200	0	0	0	10,472
Colgate U.	1,927	466	314	117	684	232	114	0	0
Columbia U. in the City of NY	468,484	54,163	322,159	10,576	36,884	3,865	10,196	5,481	25,160

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Cooper Union	150	0	0	0	0	0	0	0	150
Cornell U. all campuses	575,554	5,222	356,441	30,837	86,225	5,388	22,395	0	69,046
Fordham U.	3,391	25	1,132	17	23	709	1,485	0	0
Hamilton C. (Clinton, NY)	1,393	229	177	0	450	300	237	0	0
Hartwick C.	609	130	208	15	129	2	10	115	0
Hofstra U.	791 i	0 i	263 i	0 i	5 i	0 i	0 i	0 i	523 i
Iona C.	223	0	33	137	53	0	0	0	0
Ithaca C.	2,152	0	706	1,121	110	211	4	0	0
Long Island U. all campuses	1,377	298	686	0	137	256	0	0	0
Manhattan C.	271 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	271 i
Mt. Sinai School of Medicine	212,786	0	212,786	0	0	0	0	0	0
New School, The	5,642	0	1,626	1,269	0	259	2,488	0	0
NY Institute of Technology all campuses	3,476	0	2,444	0	0	0	0	0	1,032
NY Medical C.	33,521	0	33,521	0	0	0	0	0	0
NY U.	259,333	742	209,064	15,201	7,725	14,903	9,118	2,580	0
Pace U. all campuses	1,099	145	647	30	0	0	0	223	54
Polytechnic U.	11,627	0	0	2,128	154	0	312	56	8,977
Rensselaer Polytechnic Institute	56,907	2,689	956	3,839	6,132	0	1,360	0	41,931
Rochester Institute of Technology	19,423	1,171	1,545	422	6,612	0	127	66	9,480
Rockefeller U.	192,222	0	177,963	7,247	7,012	0	0	0	0
Skidmore C.	785	9	520	133	19	23	81	0	0
St. John's U. (Jamaica, NY)	1,574 i	12 i	1,193 i	3 i	0 i	349 i	17 i	0 i	0 i
Syracuse U. all campuses	58,276	1,130	3,772	6,734	5,544	3,155	7,908	17,887	12,146
Teachers C. Columbia U.	9,684	0	2,060	0	0	3,983	3,641	0	0
Union C. (Schenectady, NY)	4,068	125	655	251	369	91	2,120	0	457
U. Rochester	312,303	1,223	218,269	3,939	11,320	14,732	643	1,713	60,464
Vassar C.	2,249 i	0 i	981 i	127 i	469 i	1 i	81 i	68 i	522 i
Yeshiva U.	183,253	0	183,253	0	0	0	0	0	0
North Carolina	1,442,854	59,487	1,060,480	42,706	71,737	9,317	71,538	7,420	120,169
Public	786,960	47,561	501,066	35,006	52,003	7,378	44,673	7,305	91,968
Appalachian State U.	555	108	327	10	28	4	74	0	4
East Carolina U.	13,296	590	11,153	542	682	95	226	5	3
Elizabeth City State U.	1,044	164	147	382	0	0	0	0	351
Fayetteville State U.	166	0	98	0	43	20	0	5	0
NC Agricultural and Technical State U.	19,534	0	9,048	509	1,143	0	709	8	8,117
NC Central U.	1,219 i	0 i	848 i	0 i	329 i	0 i	42 i	0 i	0 i
NC State U.	292,720	15,594	145,675	19,061	20,885	1	7,265	4,008	80,231
U. NC Asheville	1,644	1,156	17	2	155	0	281	29	4
U. NC Chapel Hill	416,727	23,761	321,080	10,281	21,524	6,065	34,016	0	0
U. NC Charlotte	17,425	698	3,090	3,665	6,105	10	611	33	3,213

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
U. NC Greensboro	3,762	0	2,816	132	226	379	209	0	0
U. NC Wilmington	14,381	5,468	4,548	23	473	415	237	3,217	0
Western Carolina U.	2,414	22	766	189	0	389	1,003	0	45
Winston-Salem State U.	2,073 e	0 e	1,453 e	210 e	410 e	0 e	0 e	0 e	0 e
Private	655,894	11,926	559,414	7,700	19,734	1,939	26,865	115	28,201
Duke U.	520,871	11,566	427,955	6,537	17,878	1,939	26,865	0	28,131
Shaw U.	1,270	360	782	58	0	0	0	0	70
Wake Forest U.	133,753	0	130,677	1,105	1,856	0	0	115	0
North Dakota	151,710	7,444	72,692	2,594	15,358	1,403	9,476	9,660	33,083
Public	151,710	7,444	72,692	2,594	15,358	1,403	9,476	9,660	33,083
ND State U. all campuses	102,115	297	56,857	2,364	14,277	1,333	9,436	6,912	10,639
U. ND all campuses	49,595	7,147	15,835	230	1,081	70	40	2,748	22,444
Ohio	1,318,420	22,341	777,251	41,529	91,929	16,948	55,413	15,128	297,881
Public	1,020,803	21,255	597,318	40,221	81,981	16,132	53,923	15,123	194,850
Air Force Institute of Technology	13,001	62	0	1,701	3,288	0	0	1,416	6,534
Bowling Green State U. all campuses	8,271	203	2,104	143	1,816	1,428	1,421	640	516
Central State U.	597 i	221 i	30 i	33 i	8 i	8 i	11 i	35 i	251 i
Cleveland State U.	16,888	642	2,135	101	1,012	80	6,387	0	6,531
Kent State U. all campuses	12,712	746	2,702	642	4,726	1,584	427	1,884	1
Medical C. OH	20,159	0	20,159	0	0	0	0	0	0
Miami U. all campuses	15,377	414 i	3,525 i	1 i	3,998 i	983 i	2,657 i	3,339 i	460 i
Northeastern OH Universities C. of Medicine	5,601	0	5,601	0	0	0	0	0	0
OH State U. all campuses	518,088	11,398	288,853	30,224	31,277	6,752	32,793	5,833	110,958
OH U. all campuses	38,704	1,159	9,623	354	6,977	1,490	1,175	0	17,926
U. Akron all campuses	27,488	741	2,015	980	10,685	227	5,342	0	7,498
U. Cincinnati all campuses	276,326	689	234,726	683	7,070	1,390	3,340	1,613	26,815
U. Toledo	27,708	4,502	4,173	57	6,903	223	254	280	11,316
Wright State U. all campuses	38,052	478	21,437	5,251	3,011	1,966	82	83	5,744
Youngstown State U.	1,831	0	235	51	1,210	1	34	0	300
Private	297,617	1,086	179,933	1,308	9,948	816	1,490	5	103,031
Case Western Reserve U.	231,800	738	179,087	658	8,937	680	1,432	0	40,268
C. Wooster	281 e	23 i	1 i	0 i	198 i	59 i	0 i	0 i	0 i
Denison U.	415	26	81	0	256	0	52	0	0
John Carroll U.	478	0	118	301	59	0	0	0	0
Oberlin C.	381	42	145	0	156	38	0	0	0
OH Wesleyan U.	297 i	0 i	192 i	0 i	77 i	28 i	0 i	0 i	0 i
U. Dayton	63,734	77	263	349	265	11	6	0	62,763
U. Findlay, The	231	180	46	0	0	0	0	5	0

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Oklahoma	283,408	31,581	152,662	7,012	23,298	1,748	16,990	6,129	43,988
Public	268,033	31,376	151,246	3,299	21,890	1,716	16,399	6,129	35,978
Langston U.	3,578	0	3,578	0	0	0	0	0	0
Northeastern State U.	1,422 i	0 i	886 i	8 i	100 i	5 i	331 i	92 i	0 i
OK State U. all campuses	103,915	1,737	58,529	954	8,524	418	7,519	6,037	20,197
Southeastern OK State U.	383	0	244	0	139	0	0	0	0
U. Central OK	157	0	65	0	70	0	0	0	22
U. OK all campuses	158,578	29,639	87,944	2,337	13,057	1,293	8,549	0	15,759
Private	15,375	205	1,416	3,713	1,408	32	591	0	8,010
U. Tulsa	15,375	205	1,416	3,713	1,408	32	591	0	8,010
Oregon	505,065	42,572	334,028	28,775	15,532	18,724	15,481	24,925	25,028
Public	501,624	42,568	333,022	28,664	14,380	18,627	14,607	24,925	24,831
Eastern OR U.	288	34	148	22	69	5	10	0	0
OR Health & Science U.	254,447	0	204,065	17,805	0	10,047	0	22,530	0
OR Institute of Technology	2,378	8	0	430	0	0	0	0	1,940
OR State U.	170,286	37,912	100,349	3,721	4,034	69	2,636	1,696	19,869
Portland State U.	21,433 e	2,618 e	3,377 e	2,411 e	1,772 e	371 e	7,689 e	699 e	2,496 e
Southern OR U.	836	21	490	20	225	0	80	0	0
U. OR	51,956	1,975	24,593	4,255	8,280	8,135	4,192	0	526
Private	3,441	4	1,006	111	1,152	97	874	0	197
Lewis and Clark C.	399	0	125	68	144	38	24	0	0
Pacific U.	885 i	0 i	0 i	0 i	239 i	0 i	646 i	0 i	0 i
Reed C.	1,295	0	438	0	602	59	196	0	0
U. Portland	634	0	294	43	92	0	8	0	197
Willamette U.	228	4	149	0	75	0	0	0	0
Pennsylvania	2,206,023	45,966	1,300,564	166,735	145,951	53,993	87,450	28,762	376,602
Public	1,142,737	42,026	649,577	47,671	83,796	36,989	34,686	15,983	232,009
Indiana U. PA all campuses	2,368	53	131	222	62	537	242	745	376
Lincoln U. (Lincoln University, PA)	526	0	404	0	122	0	0	0	0
PA State U. all campuses	600,139	41,057	198,726	39,923	59,831	18,626	25,994	6,082	209,900
Temple U.	76,055	224	53,739	815	3,597	10,338	3,459	0	3,883
U. Pittsburgh all campuses	461,693	654	396,405	4,990	20,164	7,488	4,986	9,156	17,850
West Chester U. PA	1,956	38	172	1,721	20	0	5	0	0
Private	1,063,286	3,940	650,987	119,064	62,155	17,004	52,764	12,779	144,593
Allegheny C.	1,007	15	134	0	549	1	118	190	0
Bryn Mawr C.	5,664	333	468	544	1,033	1,982	1,304	0	0
Bucknell U.	1,817	72	112	39	380	3	0	0	1,211

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Carnegie Mellon U.	205,149	219	7,028	103,519	17,471	7,637	11,799	1,484	55,992
Dickinson C.	1,608	175	620	55	509	34	204	0	11
Drexel U.	76,120	0	35,854	1,573	2,958	1,044	31	0	34,660
Duquesne U.	8,082	0	5,171	232	2,553	1	125	0	0
Franklin & Marshall C.	1,300	172	390	6	597	84	51	0	0
Haverford C.	1,679	0 i	704 i	51 i	787 i	108 i	29 i	0 i	0 i
Juniata C.	898	205	537	0	129	0	27	0	0
La Salle U.	260	0	89	67	27	0	77	0	0
Lafayette C.	1,806	20	103	83	224	54	1	452	869
Lehigh U.	32,048	1,824	1,968	1,111	5,802	187	47	0	21,109
PA C. of Optometry	1,509	0	1,509	0	0	0	0	0	0
Philadelphia C. of Osteopathic Medicine	961	0	961	0	0	0	0	0	0
St. Joseph's U.	3,250	0	437	219	77	157	344	2,016	0
Swarthmore C.	2,200	0	332	59	707	449	354	80	219
Thomas Jefferson U.	112,078	0	112,078	0	0	0	0	0	0
U. PA	596,756	704	480,121	11,068	27,360	5,122	38,184	8,248	25,949
U. Scranton	1,528	0	1,196	11	311	7	3	0	0
U. of the Sciences Philadelphia	544	0	544	0	0	0	0	0	0
Villanova U.	6,455 i	153 i	504 i	389 i	636 i	134 i	66 i	0 i	4,573 i
Widener U. all campuses	267 i	48 i	0 i	38 i	0 i	0 i	0 i	181 i	0 i
Wilkes U.	300	0	127	0	45	0	0	128	0
Rhode Island	192,326	32,339	87,623	14,149	13,828	6,285	7,254	6,123	24,725
Public	60,947	25,824	18,449	591	859	3,662	98	6,123	5,341
U. RI	60,947	25,824	18,449	591	859	3,662	98	6,123	5,341
Private	131,379	6,515	69,174	13,558	12,969	2,623	7,156	0	19,384
Brown U.	130,741	6,235	68,879	13,558	12,924	2,605	7,156	0	19,384
Providence C.	286	0	223	0	45	18	0	0	0
Roger Williams U. Bristol	352	280	72	0	0	0	0	0	0
South Carolina	455,964	24,670	254,919	8,081	29,896	7,321	20,222	21,144	89,711
Public	453,118	24,509	253,352	8,042	29,031	7,107	20,222	21,144	89,711
Clemson U.	158,585	5	49,788	3,776	10,835	908	11,158	18,251	63,864
Coastal Carolina U.	1,260	1,131	37	0	92	0	0	0	0
C. Charleston	4,875	2,653	643	175	564	37	343	460	0
Medical U. SC	163,179	0	163,179	0	0	0	0	0	0
SC State U.	3,548	0	779	0	1,702	0	1,006	0	61
U. SC all campuses	121,671	20,720	38,926	4,091	15,838	6,162	7,715	2,433	25,786
Private	2,846	161	1,567	39	865	214	0	0	0
Benedict C.	1,035	0	1,035	0	0	0	0	0	0

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Claffin U.	255	0	255	0	0	0	0	0	0
Furman U.	1,556	161	277	39	865	214	0	0	0
South Dakota	57,185	4,352	36,242	311	2,379	98	4,475	715	8,613
Public	56,897	4,352	36,067	242	2,348	98	4,462	715	8,613
Black Hills State U.	1,184	41	1,111	12	20	0	0	0	0
SD School of Mines and Technology	10,626	3,791	0	0	143	0	0	462	6,230
SD State U.	29,564	440	23,021	90	454	1	2,922	253	2,383
U. SD	15,523	80	11,935	140	1,731	97	1,540	0	0
Private	288	0	175	69	31	0	13	0	0
Augustana C. (Sioux Falls, SD)	288	0	175	69	31	0	13	0	0
Tennessee	657,965	9,952	431,652	20,556	36,025	21,147	27,466	22,621	88,546
Public	307,123	9,726	154,131	19,443	18,248	11,508	22,136	14,371	57,560
East TN State U.	7,788	33	6,292	127	132	113	898	63	130
Middle TN State U.	2,421	10	721	377	935	4	60	0	314
TN State U.	15,255	0	7,683	500	1,415	7	979	0	4,671
TN Technological U.	8,779	13	839	60	259	0	0	0	7,608
U. Memphis, The	44,120	4,700	6,975	4,666	1,871	11,065	9,193	2,041	3,609
U. TN Chattanooga	6,629	0	889	386	80	101	974	766	3,433
U. TN Martin	2,021	0	1	0	0	0	2	2,018	0
U. TN system office	220,110	4,970	130,731	13,327	13,556	218	10,030	9,483	37,795
Private	350,842	226	277,521	1,113	17,777	9,639	5,330	8,250	30,986
Fisk U.	5,000	0	0	0	5,000	0	0	0	0
Meharry Medical C.	27,507	0	27,507	0	0	0	0	0	0
Vanderbilt U.	318,335	226	250,014	1,113	12,777	9,639	5,330	8,250	30,986
Texas	2,880,784	137,056	1,970,745	111,139	186,317	31,166	46,407	14,939	383,015
Public	2,321,517	132,128	1,481,530	96,478	162,835	27,042	44,624	13,245	363,635
Lamar U.	3,365	1,920	7	65	161	0	0	0	1,212
Prairie View A&M U.	10,989	0	5,993	1,272	834	42	61	0	2,787
Sam Houston State U.	3,487	1,344	530	137	68	1	1,407	0	0
Stephen F. Austin State U.	3,663	69	3,336	22	128	15	93	0	0
Sul Ross State U.	1,058	0	393	38	45	0	572	10	0
Tarleton State U.	7,194	2,663	4,053	0	478	0	0	0	0
TX A&M U. all campuses	456,809	66,724	167,704	16,384	36,942	2,621	7,937	3,033	155,464
TX A&M U. Commerce	267	0	185	4	77	0	1	0	0
TX A&M U. Corpus Christi	12,266	3,035	600	3,773	1,227	19	53	117	3,442
TX A&M U. Kingsville	11,102	800	8,183	0	181	0	0	211	1,727
TX A&M U. System Health Science Ctr.	64,170	728	61,405	0	0	108	0	0	1,929

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
TX Southern U.	4,088	0	3,804	15	0	0	0	171	98
TX State U. San Marcos	9,130	1,090	662	305	2,924	22	319	3,804	4
TX Tech U.	57,592	9,682	16,059	1,183	6,550	432	7,057	311	16,318
TX Tech U. Health Science Ctr.	19,827	0	19,827	0	0	0	0	0	0
TX Woman's U.	2,120	0	1,693	2	95	2	22	306	0
U. Houston	60,962	4,289	15,760	5,517	8,401	5,618	2,403	0	18,974
U. Houston-Clear Lake	754	134	146	357	81	4	3	0	29
U. Houston-Downtown	627	0	91	325	195	0	3	10	3
U. North TX	11,958	1,406	1,857	815	3,176	530	1,516	0	2,658
U. North TX Health Science Ctr. Ft. Worth	18,520	0	18,520	0	0	0	0	0	0
U. TX Arlington	19,003	153	898	414	4,860	584	976	0	11,118
U. TX Austin	343,886	30,915	44,309	43,713	75,345	7,560	18,156	4,587	119,301
U. TX Dallas	31,274	3,224	7,198	3,123	7,770	461	637	494	8,367
U. TX El Paso	25,440	2,984	6,851	1,155	3,691	574	744	191	9,250
U. TX Health Science Ctr. Houston	147,328	0	147,328	0	0	0	0	0	0
U. TX Health Science Ctr. San Antonio	137,039	0	137,039	0	0	0	0	0	0
U. TX M. D. Anderson Cancer Ctr.	353,034	0	317,612	14,950	8,465	7,966	463	0	3,578
U. TX Medical Branch	166,798	0	164,172	0	0	0	0	0	2,626
U. TX San Antonio	15,738	494	7,720	2,282	876	176	2,066	0	2,124
U. TX Southwestern Medical Ctr. Dallas	314,403	0	314,403	0	0	0	0	0	0
U. TX-Pan American	3,747	159	1,609	563	197	307	34	0	878
West TX A&M U.	3,879	315	1,583	64	68	0	101	0	1,748
Private	559,267	4,928	489,215	14,661	23,482	4,124	1,783	1,694	19,380
Abilene Christian U.	229	0	12	0	217	0	0	0	0
Baylor C. of Medicine	476,075	0	476,075	0	0	0	0	0	0
Baylor U.	5,242	497	805	396	1,908	277	79	1,205	75
Jarvis Christian C.	247	0	69	70	108	0	0	0	0
Rice U.	60,872	1,859	9,663	12,821	17,436	910	869	27	17,287
Southern Methodist U.	10,432	2,505	1,558	1,179	1,947	600	813	340	1,490
St. Mary's U. (San Antonio, TX)	512	0	0	0	0	0	0	98	414
TX Christian U.	3,960	45	382	44	1,067	2,289	22	0	111
Trinity U.	1,428	2	651	85	639	48	0	0	3
Wiley C.	270	20	0	66	160	0	0	24	0
Utah	414,340	15,135	211,655	21,301	27,318	7,174	7,261	8,621	115,875
Public	390,775	14,851	206,209	20,071	23,102	6,551	5,322	8,612	106,057
U. UT	237,159	5,844	160,288	18,829	18,915	2,626	2,596	0	28,061
UT State U.	153,616	9,007	45,921	1,242	4,187	3,925	2,726	8,612	77,996
Private	23,565	284	5,446	1,230	4,216	623	1,939	9	9,818
Brigham Young U. all campuses	23,565	284	5,446	1,230	4,216	623	1,939	9	9,818

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Vermont	115,778	522	100,613	1,515	2,593	848	232	6,915	2,540
Public	114,120	429	99,972	1,515	1,691	848	232	6,915	2,518
U. VT	114,120	429	99,972	1,515	1,691	848	232	6,915	2,518
Private	1,658	93	641	0	902	0	0	0	22
Middlebury C.	1,658 i	93 i	641 i	0 i	902 i	0 i	0 i	0 i	22 i
Virginia	848,556	85,967	441,041	42,366	60,292	19,536	21,949	1,087	176,318
Public	780,934	61,330	403,469	42,099	57,055	19,450	21,832	785	174,914
Christopher Newport U.	2,029	0	270	182	1,519	58	0	0	0
C. of William and Mary all campuses	49,420	32,640	1,981	1,430	10,957	464	1,948	0	0
George Mason U.	46,210	9,951	6,908	8,456	782	2,751	9,402	0	7,960
James Madison U.	5,442	131	851	2,696	730	429	179	70	356
Norfolk State U.	6,200	0	177	2,032	3,576	0	0	1	414
Old Dominion U.	34,819	3,826	2,256	1,948	2,469	770	869	0	22,681
Radford U.	195	45	9	0	6	0	134	1	0
U. VA all campuses	228,532	3,962	155,682	8,015	17,037	7,287	1,501	701	34,347
VA Commonwealth U.	132,839	648	113,794	150	5,178	4,875	1,290	0	6,904
VA Military Institute	543	0	14	0	33	3	8	0	485
VA Polytechnic Institute and State U.	268,752	10,127	115,882	17,190	14,460	2,813	6,501	12	101,767
VA State U.	5,953	0	5,645	0	308	0	0	0	0
Private	67,622	24,637	37,572	267	3,237	86	117	302	1,404
Eastern VA Medical School	33,798	0	33,798	0	0	0	0	0	0
Hampton U.	31,645	24,587	2,977	230	2,447	0	0	0	1,404
Roanoke C.	554	1	195	0	328	0	30	0	0
U. Richmond	1,625	49	602	37	462	86	87	302	0
Washington	896,913	85,350	593,883	6,892	51,417	11,238	47,733	5,414	94,986
Public	895,057	84,999	593,241	6,805	51,173	11,238	47,466	5,297	94,838
Central WA U.	3,134	1,759	528	359	176	0	312	0	0
Eastern WA U.	1,339	10	198	10	0	0	1,103	0	18
Evergreen State C.	354	28	158	46	6	0	0	116	0
U. WA	713,976	78,845	481,620	5,178	34,917	8,863	34,519	0	70,034
WA State U.	171,735	3,040	109,290	1,128	15,268	1,955	11,317	5,181	24,556
Western WA U.	4,519	1,317	1,447	84	806	420	215	0	230
Private	1,856	351	642	87	244	0	267	117	148
Seattle U.	744	0	306	87	153	0	50	0	148
U. Puget Sound	398	43	17	0	4	0	217	117	0
Whitman C.	714	308	319	0	87	0	0	0	0
West Virginia	130,057	7,247	74,147	1,232	5,673	277	3,309	115	38,057

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Public	130,057	7,247	74,147	1,232	5,673	277	3,309	115	38,057
Bluefield State C.	156	0	156	0	0	0	0	0	0
Marshall U.	20,221	0	10,516	0	279	0	1	0	9,425
WV School of Osteopathic Medicine	245	0	245	0	0	0	0	0	0
WV State C.	1,433	28	1,305	0	100	0	0	0	0
WV U.	108,002	7,219	61,925	1,232	5,294	277	3,308	115	28,632
Wisconsin	955,802	62,628	624,216	20,616	59,130	30,698	50,373	1,128	107,013
Public	803,769	62,628	480,978	20,492	58,198	30,430	49,810	1,079	100,154
U. WI Eau Claire	1,056	60	354	116	477	33	16	0	0
U. WI Green Bay	1,739	1,505	4	6	0	1	118	105	0
U. WI La Crosse	1,963	9	636	294	240	2	605	177	0
U. WI Madison	763,875	54,127	473,733	18,260	51,853	29,329	41,686	27	94,860
U. WI Milwaukee	28,268	5,207	3,322	1,424	5,006	735	7,284	0	5,290
U. WI Oshkosh	1,252	54	729	1	179	164	10	115	0
U. WI Parkside	608	36	349	30	59	132	0	2	0
U. WI River Falls	345	46	156	2	134	0	7	0	0
U. WI Stevens Point	2,042	631	1,146	120	106	8	27	0	4
U. WI Stout	1,144	0	312	144	0	25	10	653	0
U. WI Superior	1,136	935	54	95	28	1	23	0	0
U. WI Whitewater	341	18	183	0	116	0	24	0	0
Private	152,033	0	143,238	124	932	268	563	49	6,859
Marquette U.	9,652	0	3,469	124	889	268	563	49	4,290
Medical C. WI	139,235	0	139,235	0	0	0	0	0	0
Milwaukee School of Engineering	3,146	0	534	0	43	0	0	0	2,569
Wyoming	60,054	8,076	27,752	440	5,271	1,592	1,800	8,559	6,564
Public	60,054	8,076	27,752	440	5,271	1,592	1,800	8,559	6,564
U. WY	60,054 e	8,076 e	27,752 e	440 e	5,271 e	1,592 e	1,800 e	8,559 e	6,564 e
Guam	9,458	1,381	5,496	0	0	0	516	2,000	65
Public	9,458	1,381	5,496	0	0	0	516	2,000	65
U. GU	9,458	1,381	5,496	0	0	0	516	2,000	65
Puerto Rico	86,514	6,934	57,885	490	8,943	1,165	2,370	322	8,405
Public	66,577	6,934	37,948	490	8,943	1,165	2,370	322	8,405
U. PR Humacao U. C.	3,382	0	317	0	3,065	0	0	0	0
U. PR Mayaguez Campus	16,686	4,599	894	135	2,452	0	201	322	8,083
U. PR Medical Sciences Campus	34,092	0	34,092	0	0	0	0	0	0
U. PR Rio Piedras Campus	12,417	2,335	2,645	355	3,426	1,165	2,169	0	322

TABLE 26. R&D expenditures at universities and colleges, by state, control, and science and engineering field: FY 2004

(Dollars in thousands)

State, control, and institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
Private	19,937	0	19,937	0	0	0	0	0	0
Ponce School of Medicine	10,140	0	10,140	0	0	0	0	0	0
Universidad Central del Caribe	9,797	0	9,797	0	0	0	0	0	0
Virgin Islands	17,874	0	9,685	0	0	0	1,811	6,318	60
Public	17,874	0	9,685	0	0	0	1,811	6,318	60
U. of the VI	17,874	0	9,685	0	0	0	1,811	6,318	60

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$670 million in total R&D expenditures.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
	All institutions	24,370,716	25,856,006	27,530,968	30,068,664	32,793,818	36,367,358	40,056,637	42,945,081
1	Johns Hopkins U., The ^a	829,241	853,620	874,518	901,156	999,246	1,140,235	1,244,132	1,375,014
2	U. CA, Los Angeles	398,865	447,367	477,620	530,826	693,801	787,598	849,357	772,569
3	U. MI all campuses	483,485	496,761	508,619	551,556	600,523	673,724	780,054	769,126
4	U. WI Madison	419,810	443,695	499,688	554,361	604,143	662,101	717,044	763,875
5	U. CA, San Francisco	343,384	379,970	417,095	443,013	524,975	596,965	671,443	728,321
6	U. WA	409,959	438,191	482,659	529,342	589,626	627,273	684,814	713,976
7	U. CA, San Diego	376,655	418,790	461,632	518,559	556,533	585,008	646,508	708,690
8	Stanford U.	395,310	410,309	426,549	457,822	482,906	538,474	603,227	671,046
9	PA State U. all campuses	339,955	362,643	379,402	427,575	458,066	492,739	533,427	600,139
10	U. PA	296,141	333,477	383,569	430,389	469,852	522,269	564,635	596,756
11	Cornell U. all campuses	351,030	363,511	395,552	410,393	443,828	496,123	554,760	575,554
12	MA Institute of Technology	410,930	413,098	420,306	426,299	435,495	446,786	485,764	543,448
13	U. CA, Berkeley	377,376	420,426	451,539	518,514	446,273	474,746	507,186	525,598
14	Duke U.	251,536	282,388	348,274	356,625	375,133	441,533	520,191	520,871
15	OH State U. all campuses	289,100	301,518	322,810	361,399	390,652	432,387	496,438	518,088
16	U. MN all campuses	363,095	360,323	371,384	411,380	462,011	494,265	508,557	515,061
17	U. CA, Davis	267,341	288,796	307,950	364,789	432,396	456,653	482,145	511,757
18	U. IL Urbana-Champaign	286,470	329,266	358,247	373,024	390,863	427,174	493,581	506,041
19	Washington U. St. Louis	262,426	269,550	315,606	362,216	406,642	416,960	474,328	489,565
20	U. CO all campuses	269,816	311,203	318,618 e	353,908 i	365,472	399,818	436,761	482,992
21	U. AZ	285,278	302,328	320,245	345,090	367,128	390,827	454,941	478,680
22	Baylor C. of Medicine	192,744	216,528	272,198	334,175	381,461	411,924	461,763	476,075
23	Columbia U. in the City of NY	244,337	267,007	279,587	319,693	354,497	405,403	437,669	468,484
24	U. Pittsburgh all campuses	202,533	213,842	249,477	294,809	348,792	400,200	409,684	461,693
25	TX A&M U. all campuses	366,798	393,720	402,203	397,268	407,041	436,681	456,235	456,809
26	Harvard U.	299,961	306,100	326,193	341,810	372,107	401,367	408,707	454,495
27	U. FL	272,373	274,862	304,447	313,692	347,892	386,316	429,734	447,146
28	U. Southern CA	259,246	268,806	280,741	300,445	340,597	372,397	414,099	426,665
29	Yale U.	245,536	262,680	274,050	296,706	321,514	354,243	387,644	422,828
30	U. NC Chapel Hill	221,380	235,296	252,767	269,072	303,576	370,806	390,542	416,727
31	GA Institute of Technology all campuses	240,237	259,233	263,725	304,511	306,533	340,347	364,190	410,799
32	IN U. all campuses	165,198	171,754	194,790	227,737	259,899	299,080	337,669	384,168
33	Purdue U. all campuses	206,588	216,479	226,411	234,536	254,917	285,778	309,476	365,779
34	Northwestern U.	200,943	223,235	233,809	245,774	257,933	282,154	319,722	358,947
35	U. TX M. D. Anderson Cancer Ctr.	129,578	141,260	155,126	182,196	212,746	262,145	315,169	353,034
36	U. TX Austin	239,021	244,843	258,122	272,811	295,104	320,966	343,854	343,886
37	LA State U. all campuses	205,441	208,928	225,808	251,233	268,911	287,363	314,446	341,634
38	U. MD College Park	215,927	223,190	257,628	252,429	267,383	324,980	321,899	325,648
39	MI State U.	190,178	193,611	207,912	238,436	265,946	289,787	321,410	325,438

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
40	Vanderbilt U.	122,598	135,214	149,675	171,926	186,504	208,305	276,074	318,335
41	U. MD Baltimore	134,808	143,321	140,903	224,346	239,007	266,822	297,271	317,293
42	U. TX Southwestern Medical Ctr. Dallas	140,589	153,711	165,520	189,216	222,376	263,958	276,692	314,403
43	U. GA	225,457	217,945	237,493	258,476	272,298	284,660	299,748	313,160
44	U. IA	184,414	199,063	207,135	236,944	255,348	288,808	292,035	312,914
45	U. Rochester	155,311	174,617	177,126	197,335	234,261	261,601	285,768	312,303
46	Emory U.	163,619	172,884	189,170	206,070	236,997	271,238	323,224	311,685
47	U. AL Birmingham, The	203,758	227,720	232,115	233,461	231,702	255,053	284,497	310,950
48	U. IL Chicago	139,296	151,739	175,093	195,839	233,098	259,852	291,507	307,699
49	U. NE all campuses	164,354 i	171,309 i	189,480 i	192,639	223,964	247,948	276,424	299,090
50	U. KY all campuses	124,804	161,346	174,034	202,392	211,721	236,275	272,062	297,610
51	Rutgers, The State U. NJ all campuses	183,038	197,053	213,838	225,268	236,793	258,829	278,763	296,534
52	NC State U.	229,292	254,254	270,621	277,946	299,259	290,018	286,025	292,720
53	U. Cincinnati all campuses	141,604	159,695	153,002	171,906	192,895	216,652	254,101	276,326
54	U. Chicago	150,531	151,635	162,805	170,678	194,125	225,264	247,322	272,390
55	VA Polytechnic Institute and State U.	169,808	167,118	169,250	192,672	216,323	232,560	247,807	268,752
56	CA Institute of Technology	177,888	185,066	212,216	222,666	215,085	220,004	240,664	261,098
57	NY U.	153,288	156,452	167,179	182,205	190,722	222,978	241,593	259,333
58	SUNY Buffalo all campuses	135,663	151,650	166,823	187,692	186,829	226,959	240,180	258,952
59	U. CA, Irvine	119,669	130,415	141,842	158,437	179,866	209,469	234,656	257,024
60	OR Health & Science U.	98,319	109,374 i	120,429 i	131,486	136,785	158,729	197,178	254,447
61	Boston U.	120,392	130,054	141,102	154,029	172,031	192,612	224,841	240,867
62	U. South FL	99,649	104,325	123,961	145,397	171,550	197,894	213,249	240,021
63	U. UT	135,911	142,956	153,843	187,661	197,597	216,707	223,739	237,159
64	U. HI Manoa	120,107	148,007	156,810	161,300	156,976	161,823	179,285	236,368
65	Case Western Reserve U.	161,825	176,330	182,332	193,057	198,253	219,042	250,674	231,800
66	U. TN all campuses	154,230	150,694	158,930	163,690	161,898	188,261	217,389	228,760
67	U. VA all campuses	114,085	139,135	131,138	140,416	149,547	182,340	206,199	228,532
68	Wayne State U.	124,383	138,456	146,832	156,814	175,984	199,007	214,642	225,475
69	U. MO-Columbia	128,178	136,061	149,002	158,861	174,782	177,011	205,212	217,550
70	CO State U.	128,580	140,179	150,281	152,279	161,144	178,845	187,054	214,888
71	SUNY Stony Brook all campuses	136,624	141,766	148,982	163,307	168,487	184,045	200,330	213,547
72	Mt. Sinai School of Medicine	94,776	109,448	127,765	149,846	176,946	185,335	203,853	212,786
73	IA State U.	155,433	156,766	161,301	175,558	179,196	188,664	199,566	211,996
74	U. CT all campuses	140,840	134,448	134,986	161,084	164,366	172,003	190,341	211,236
75	U. of Medicine and Dentistry NJ	110,383	114,491	126,277	140,951	162,417	178,156	190,763	209,134
76	Carnegie Mellon U.	134,954	137,450	142,174	137,980	144,882	188,191	186,351	205,149
77	SUNY Albany	57,415	50,568	64,278	82,792	70,119	67,493	120,655	203,977
78	U. Miami	135,888	136,972	139,608	145,795	153,772	171,319	177,709	194,446
79	Rockefeller U.	109,999	115,494	121,519	124,138	145,571	166,603	192,143	192,222

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
80	MS State U.	84,157	100,410	110,896	132,503	146,939	158,652	165,922	191,352
81	Princeton U.	114,549	115,996	124,237	134,875	149,411	164,408	179,951	188,373
82	Yeshiva U.	96,819	99,000	111,771	139,618	148,230	157,124	177,236	183,253
83	U. KS all campuses	108,893	117,115	132,752	148,670	156,467	172,131	173,024	181,192
84	Dartmouth C.	61,619	64,964	69,522	78,874	109,096	126,839	155,795	173,266
85	WA State U.	97,700	95,422	96,943	104,796	107,937	146,862	175,181	171,735
86	OR State U.	131,467	138,240	139,285	140,751	153,925	161,735	167,631	170,286
87	U. NM all campuses	116,152	125,910	115,850	133,980	156,619	150,598	158,239	170,085
88	U. MA Worcester	71,346	82,950	83,040	97,587	111,221	132,729	148,823	169,090
89	FL State U.	95,908	94,463	97,673	105,095	113,817	134,351	152,277	168,132
90	U. TX Medical Branch	77,683	86,488	93,580	97,896	102,722	129,534	153,122	166,798
91	Medical U. SC	57,111	57,940	55,819	65,243	116,687	132,030	150,551	163,179
92	Clemson U.	84,034	90,150	99,341	114,903	123,885	134,840	152,986	158,585
93	U. OK all campuses	114,387	126,861	142,085	150,902	148,695	169,373	174,466	158,578
94	UT State U.	91,292	94,228	95,364	103,161	121,359	121,621	138,862	153,616
95	AZ State U. main campus	80,740	92,019	107,184	108,117	118,763	123,016	145,591	152,164
96	U. CA, Santa Barbara	91,149	96,034	104,561	118,154	116,372	131,795	149,130	151,325
97	U. TX Health Science Ctr. Houston	95,638	101,993	105,307	119,587	125,439	138,380	149,294	147,328
98	Medical C. WI	51,629	56,021	61,446	70,581	83,857	96,700	108,608	139,235
99	U. TX Health Science Ctr. San Antonio	86,019	82,357	87,804	103,824	115,154	129,616	133,304	137,039
100	Wake Forest U.	75,290	76,893	82,827	86,840	98,343	111,634	130,405	133,753
101	VA Commonwealth U.	78,948	80,538	79,785	88,220	99,180	109,619	126,451	132,839
102	Tulane U.	86,427	87,858	87,324	89,785	99,761	102,998	117,709	132,784
103	U. AK Fairbanks all campuses	70,943	75,606	88,825	102,500	110,195	116,279	128,916	132,212
104	Brown U.	71,411	73,977	76,330	81,476	91,636	109,482	125,090	130,741
105	Tufts U.	83,568	92,130	100,872	105,783	105,806	109,291	112,609	126,432
106	Georgetown U.	119,114	116,611	111,426	133,211	99,228	96,450	100,181	126,320
107	Auburn U. all campuses	85,460	87,768	80,544	92,612	106,347	108,775	117,000	125,705
108	U. SC all campuses	77,855	92,785	105,835	104,398	109,973	123,108	121,410	121,671
109	U. MA Amherst	85,811	89,970	86,576	96,907	97,976	109,332	113,512	120,788
110	KS State U.	76,896	81,233	85,580	91,790	94,030	106,804	112,733	119,306
111	U. VT	59,526	57,832	64,049	63,391	75,597	88,602	104,994	114,120
112	Woods Hole Oceanographic Institution	77,407	75,011	71,722	81,547	91,029	99,964	104,223	114,087
113	Thomas Jefferson U.	69,228	69,460	78,410	89,626	88,936	102,974	109,083	112,078
114	U. Louisville	33,434	39,147	57,051	64,062	72,857	80,974	88,522	110,653
115	U. CA, Riverside	75,486	79,775	75,821	83,580	94,455	111,936	112,468	110,627
116	U. DE	65,095	69,896	73,521	74,711	77,491	85,157	100,706	109,985
117	WV U.	63,312	62,362	63,392	66,130	71,311	84,985	104,748	108,002
118	U. NH	45,886	52,359	57,613	72,108	87,879	93,222	96,415	103,935
119	OK State U. all campuses	62,480	71,466	83,108	88,285	90,311	94,987	103,079	103,915

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
120	George Washington U.	55,158	74,481	66,757	69,300	73,805	86,288	92,454	103,473
121	U. Central FL	38,592	35,530	42,466	47,646	79,287	66,351	89,880	103,261
122	ND State U. all campuses	35,197	40,007	44,696	50,063	64,882	72,105	91,812	102,115
123	MT State U. Bozeman	49,440	52,292	55,475	65,324	69,593	78,211	91,503	97,696
124	U. CA, Santa Cruz	49,428	56,533	52,902	56,212	64,253	70,967	78,448	94,297
125	NM State U. all campuses	81,024	77,370	79,877	79,695	86,963	103,078	108,613	93,329
126	U. ID	57,582 i	58,967	62,531	61,347	67,496	76,758	85,213	93,246
127	U. CA Office of the President	NA	NA	NA	NA	NA	NA	NA	90,233
128	Uniformed Services U. of the Health Sciences	18,812	20,309	22,898	23,987	23,247	28,630	30,604	89,999
129	Rush U.	49,969	55,277	60,957	68,189	70,219	79,394	89,196	89,254
130	U. AR main campus	64,868	71,686	61,585	70,817	78,303	83,063	82,277	88,918
131	U. NV, Reno	52,703	45,476	47,939	56,248	59,229	66,721	80,553	83,552
132	U. ME	33,144	33,106	41,452	54,821	64,070	62,149	68,923	81,216
133	U. MS all campuses	26,231	28,079	32,129 i	44,927	58,410 i	71,893 i	85,378	79,867
134	Drexel U.	19,267	19,603	22,397	24,876	27,698	44,465	69,548	76,120
135	Temple U.	54,500	63,024	53,940	52,466	60,182	63,850	71,327	76,055
136	NJ Institute of Technology	38,728	40,982	40,982	47,895	62,747	69,138	73,664	74,998
137	U. of Notre Dame	24,116	28,873	30,483	34,524	46,096	52,371	59,803	74,255
138	U. AR for Medical Sciences	37,336	39,487	44,066	49,074	51,921	45,046	63,677	74,063
139	San Diego State U.	40,586	41,915	45,579	55,002	58,332	64,302	67,053	66,710
140	Naval Postgraduate School	32,333	34,095	34,095 e	40,827 i	47,559 i	54,291 i	61,025	65,092 i
141	TX A&M U. System Health Science Ctr.	NA	NA	NA	25,736	40,859	49,636	55,031	64,170
142	U. Dayton	45,437	45,000	36,937	39,345	41,343	46,554	52,943	63,734
143	FL International U.	17,359	17,880	25,061	34,649	44,291	47,654	52,175	63,545
144	U. Houston	45,916	42,297	43,370	48,902	51,567	59,707	63,455	60,962
145	U. RI	40,522	37,940	44,452	48,135	50,835	53,347	61,818	60,947
146	Rice U.	43,601	41,067	41,069	41,840	42,675	48,169	52,367	60,872
147	U. WY	47,753	48,500	47,197	43,094	41,632	41,632 e	60,054	60,054 e
148	Medical C. GA	38,725	39,806	41,103	45,596	52,191	51,705	56,398	58,808
149	Syracuse U. all campuses	34,642	37,322	39,640	40,063	42,476	45,870	48,846	58,276
150	TX Tech U.	46,645	53,126	58,488	66,263	69,918	82,785	92,515	57,592
151	Rensselaer Polytechnic Institute	38,803 e	38,560	39,034	40,762	45,010	45,955	50,777	56,907
152	U. LA Lafayette	22,381	24,768	30,735	32,692	32,073	47,796	43,769	55,218
153	Southern IL U. Carbondale	30,043	30,490	33,169	36,354	43,207	53,604	53,018	53,953
154	Charles R. Drew U. of Medicine and Science	17,205 e	17,205 e	24,484	31,045	36,717	48,839	49,888	51,994
155	U. OR	31,487	33,315	32,695	35,934	36,881	43,723	44,604	51,956
156	Brandeis U.	40,145	44,589	48,305	47,658	52,818	47,122	50,841	51,498
157	U. MT, The	21,151	20,133	24,372	29,590	33,535	39,367	43,562	51,078
158	U. ND all campuses	20,899	16,938	16,999	17,343	19,692	33,973	41,803	49,595
159	C. of William and Mary all campuses	24,051	25,966	31,322	33,299	35,829	39,858	43,974	49,420

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
160	U. MD Baltimore County	19,799	18,155	21,854	26,044	29,641	36,323	42,906	49,403
161	U. AL Huntsville, The	32,817	36,946	40,203	41,274	43,731	48,353	46,595	49,259
162	U. MD Biotechnology Institute	29,117	31,861	31,172	29,946	32,458	34,440	39,789	48,278
163	Northeastern U.	19,822	26,385	30,209	35,340	34,467	38,540	42,931	47,283
164	George Mason U.	19,126	22,543	26,766	26,793	32,881	38,849	44,980	46,210
165	U. NV, Las Vegas	15,628	16,912	20,170	24,215	27,008	30,527	42,205	45,429
166	GA State U.	27,069	31,153	36,523	36,600	38,960	44,564	45,653	45,415
167	U. Memphis, The	21,271	22,486	24,280	27,381	29,445	33,625	38,728	44,120
168	San Francisco State U.	5,155 i	5,079 i	5,000 e	5,223 e	5,223 e	14	12,500	42,903
169	Howard U.	27,873	23,673	23,557	27,254	30,148	35,387	37,577	41,404
170	U. MO-Rolla	20,895	21,740	25,893	25,968	28,799	32,222	35,999	41,242
171	St. Louis U. all campuses	26,517	26,943	27,817	31,002	32,442	35,444	41,189	41,189 e
172	SUNY Health Science Ctr. Brooklyn	29,727	27,517	28,840	31,626	31,626 e	34,981 i	38,424 i	40,985 i
173	U. MD Ctr. for Environmental Science	21,377	24,038	26,816	31,605	36,635	38,501	38,344	39,631
174	OH U. all campuses	21,008	21,469	21,437	23,767	27,146	36,601	37,527	38,704
175	NM Institute of Mining and Technology	21,974	22,791	26,061	23,636	28,392	36,309	37,186	38,476
176	Wright State U. all campuses	17,291	19,676	23,131	29,092	32,033	30,962	34,860	38,052
177	Loyola U. Chicago	30,994	34,241	29,001	30,034	37,156	37,607	37,581	36,134
178	U. Southern MS	9,078	11,117	16,211	17,706	20,286	25,685	35,049	35,908
179	MI Technological U.	24,140	26,522	28,074	27,204	29,613	30,005	30,264	35,670
180	CUNY Hunter C.	14,037	13,497	15,934	15,047	19,964	25,905	32,704	34,931
181	Old Dominion U.	18,583	20,150	23,030	25,058	24,659	29,223	30,324	34,819
182	Desert Research Institute	20,000	21,500	23,376	25,691	29,697	29,465	31,757	34,783
183	U. PR Medical Sciences Campus	15,575	19,830	17,114	21,373	23,913	29,089	31,124	34,092
184	U. AL, The	23,671	23,935	28,909	31,847	33,133	37,130	34,187	33,835
185	Eastern VA Medical School	19,109	21,672	24,096	23,299	26,250	28,572	32,801	33,798
186	NY Medical C.	16,890	19,159	20,436	23,348	24,283	25,222	30,492	33,521
187	Morehouse School of Medicine	13,218	13,614	13,622	16,889	19,670	23,956	27,154	33,317
188	Boston C.	14,746	17,774	21,726	27,767	30,768	31,754	32,158	32,158 e
189	SUNY Upstate Medical U.	14,914	14,089	15,099	17,095	17,294	22,326	25,931	32,090
190	Lehigh U.	26,451	26,115	27,902	25,506	29,058	22,687	29,211	32,048
191	U. MO-Kansas City	11,734	12,875	14,331	19,647	18,795	24,060	31,104	31,968
192	Hampton U.	8,002	7,140	7,472	9,323	9,158	11,067	18,673	31,645
193	Jackson State U.	5,135	6,111	8,823	12,027	25,663	25,445	28,843	31,641
194	FL A&M U.	25,415	19,066	21,622	21,612	23,865	31,147	23,503	31,408
195	U. TX Dallas	14,561	15,211	16,028	15,684	15,684 e	26,198	30,748	31,274
196	U.S. Air Force Academy	3,720 i	4,163	3,761	4,551	5,323	25,589	27,198	29,998
197	Wichita State U.	11,797	13,117	14,555	16,213	16,142	18,842	22,401	29,948
198	Loma Linda U.	13,396	12,788	18,818	24,369	24,183 i	23,996	26,296	29,651
199	SD State U.	15,671	15,631	15,599	16,784	19,717	20,085	27,652	29,564

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
200	San Jose State U.	21,005 i	21,005 e	21,005 e	21,005 e	22,709	25,003	28,323	29,268
201	SUNY C. of Environmental Science and Forestry	20,540	22,036	25,385	26,663	27,854	26,337	26,783	28,568 i
202	U. WI Milwaukee	19,995	20,807	21,325	20,010	23,492	24,933	27,259	28,268
203	U. Toledo	8,729	11,512	11,819	13,694	16,278	24,825	24,123	27,708
204	Meharry Medical C.	11,212 e	11,212 e	9,460	9,460 e	14,984 i	20,508	25,427	27,507
205	U. Akron all campuses	17,999	16,326	16,279	19,495	22,266	28,080	27,953	27,488
206	CO School of Mines	19,221	20,681	21,715	21,795	23,654	26,515	29,162	27,087
207	CUNY City C.	22,526	21,147	15,888	17,059	17,099	17,103	17,712	25,947
208	Creighton U.	13,127	15,011	16,015	15,841	17,674	18,982	24,116	25,451
209	U. TX El Paso	15,850	14,092	21,961	20,877	21,889	23,684	27,185	25,440
210	SUNY Binghamton	19,310	20,754	17,998	18,661	18,992	21,343	23,090	25,405
211	FL Atlantic U.	10,521	14,265	17,151	19,535	25,111	23,995	25,946	23,767
212	Catholic U. America, The	8,845	9,418	13,317	9,329	17,539	22,883	24,475	23,610
213	Brigham Young U. all campuses	11,502 e	11,963	23,985	17,237	19,171	21,228	22,557	23,565
214	IL Institute of Technology	16,182	14,013	13,438	13,734	14,722	19,909	25,744	22,948
215	Stevens Institute of Technology	12,179	12,944	13,794	15,879	13,855	13,855 e	18,334 i	22,814
216	U. MA Lowell	18,695	19,372	19,413	19,334	20,656	22,827	22,783	22,163
217	Portland State U.	9,285	10,507	13,940	16,494	16,838	17,683	21,433	21,433 e
218	Marshall U.	180	25	66	6,231	7,218	11,285	15,070	20,221
219	Medical C. OH	13,469	11,425	12,467	13,747	15,276	17,040	18,233	20,159
220	U. South AL	13,083	11,990	11,990 e	9,865	9,865 e	17,692	19,371	20,096
221	Northern AZ U.	10,800	11,652	11,857	12,570	14,657	17,263	17,446	19,967
222	TX Tech U. Health Science Ctr.	NA	NA	NA	NA	NA	NA	NA	19,827
223	NC Agricultural and Technical State U.	15,817	14,816	14,741	13,400	15,629	15,353	17,304	19,534
224	Rochester Institute of Technology	8,398	8,133 e	9,340 e	4,755	11,416	13,500	17,197	19,423
225	U. TX Arlington	37,509	19,075	11,450	10,723	17,486	15,097	15,102	19,003
226	Southern IL U. Edwardsville	1,161 i	966	1,316	1,344	1,270	14,043	17,100	18,973
227	U. North TX Health Science Ctr. Ft. Worth	7,258	8,921	9,689	10,131	11,035	12,893	15,388	18,520
228	Mercer U. all campuses	13,704	14,995	17,250	18,138	15,337	12,998	14,996	18,437
229	U. MA Dartmouth	4,197	4,902	5,820	6,905	9,488	15,030	16,476	18,074
230	U. of the VI	4,828 e	4,828 e	3,310	3,310 e	8,645 i	13,981	15,762	17,874
231	AL A&M U.	9,813 e	14,143	11,562	8,238	11,977 i	15,717	36,856	17,429
232	U. NC Charlotte	6,340 i	6,669	9,041	7,790	7,905	8,773	12,599	17,425
233	Cleveland State U.	10,884 e	11,211 e	11,893 e	10,214	12,986	13,855	14,112	16,888
234	U. PR Mayaguez Campus	48,857	51,181	55,648	34,683	18,627	19,939	20,029	16,686
235	LA Tech U.	5,379 i	7,659	7,659 e	10,228	9,986	12,110	15,055	16,118
236	U. TX San Antonio	15,890	7,220	7,780	10,292	11,331	11,115	13,654	15,738
237	Albany Medical C.	6,965	8,236	10,377	11,522	12,836	13,104	13,394	15,562
238	U. SD	4,586	4,959	5,762	4,742	5,546	8,368	11,148	15,523
239	U. MA Boston	11,194	11,491	11,132	12,058	11,672	13,121	15,793	15,460

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
240	Miami U. all campuses	9,644	6,738	10,964	10,674	12,804	13,279	13,727	15,377
241	U. Tulsa	9,776	8,235	10,040	10,054	12,553	11,603	11,527	15,375
242	TN State U.	8,629	9,329	10,762	11,285	12,791	15,262	14,306	15,255
243	CA State U. Fresno	8,785	10,345	11,450	11,598	4,531	9,398	13,558	15,211
244	Clarkson U.	6,964	6,345	6,989	7,751	8,322	8,322 e	7,466	14,703
245	ID State U.	5,495	10,016	5,642	8,899	8,847	10,119	12,243	14,385
246	U. NC Wilmington	6,905 i	7,208	7,647	7,859	10,307	14,568	12,762	14,381
247	Worcester Polytechnic Institute	10,710	9,637	9,618	10,315	9,348	10,493	12,357	14,045
248	Western MI U.	10,035	11,532	13,727	14,230	14,976	19,023	21,571	13,912
249	Clark Atlanta U.	28,893	29,637	19,467	16,891	17,173	17,194	12,760	13,576
250	East Carolina U.	6,600	7,644	9,014	8,461	10,535	11,513	12,520	13,296
251	U. AK Anchorage all campuses	0 i	0 e	4,782	4,782 e	8,233 i	11,685 e	12,326	13,285
252	Air Force Institute of Technology	7,619	4,240	4,316	7,771	8,311	9,243	12,454	13,001
253	Kent State U. all campuses	11,439	12,690	11,083	10,817	11,316	12,868	14,549	12,712
254	U. Denver	9,019	10,589	10,247	8,383	12,944	10,539	9,949	12,500
255	U. MO-St. Louis	8,150	9,462	10,294	9,898	10,084	11,519	12,819	12,429
256	U. PR Rio Piedras Campus	6,671	9,959	9,885	9,308	10,341	9,736	11,473	12,417
257	TX A&M U. Corpus Christi	NA	NA	NA	5,999	5,606	9,124	10,281	12,266
258	U. North TX	10,678	8,813	7,487	9,108	14,224	13,227	13,990	11,958
259	Northern IL U.	7,466	6,725	6,455	7,431	9,028	10,366	12,368	11,687
260	Polytechnic U.	8,452	6,373	9,050	15,500	8,277	10,915	11,271 i	11,627
261	Tuskegee U.	33,046	37,354	9,223	8,893	9,539	9,965	10,067	11,519
262	TX A&M U. Kingsville	6,623 i	7,317	6,397	7,404	6,919	8,208	10,203	11,102
263	Prairie View A&M U.	9,768	9,952	10,157	9,464	11,297	10,444	11,193	10,989
264	SD School of Mines and Technology	4,301	4,550	4,161	5,743	6,922	9,692	10,853	10,626
265	Rosalind Franklin U. of Medicine and Science	6,672	6,672 e	6,764	7,587	8,037	8,645	9,923	10,614
266	Southern Methodist U.	8,220	7,964	9,401	9,713	8,948	9,774	9,890	10,432
267	CA State U. Northridge	3,059 i	2,175	3,230	6,190	6,190 e	10,619	11,638	10,305
268	Ponce School of Medicine	2,802	2,953 i	3,105	3,403	3,842	4,365	7,491	10,140
269	CA State U. Long Beach	5,843	18,563 i	31,283	32,551	3,995	8,026	13,732	9,877
270	Universidad Central del Caribe	2,456	3,558 i	4,660	5,677	6,943	7,103	8,274	9,797
271	Teachers C. Columbia U.	1,381	6,775	7,206	8,561	9,676	10,409	9,603	9,684
272	Marquette U.	5,855	6,763	6,469	7,653	7,236	9,807	11,385	9,652
273	U. GU	2,801 i	2,819	2,829	4,130	3,752	4,571	6,989	9,458
274	CA State Polytechnic U. San Luis Obispo	5,648 i	5,972	11,892	12,133	12,193	14,002	13,598	9,417
275	TX State U. San Marcos	3,339 i	3,299	3,597	4,507	8,884	8,109	7,621	9,130
276	Boise State U.	3,211	3,412	3,501	3,480	6,153	6,446	7,583	9,126
277	TN Technological U.	9,053	9,661	9,204	8,878	9,347	9,823	9,609	8,779
278	CA State U. San Bernardino	340 i	390	3,301	1,797	1,906	3,740	7,576	8,755
279	CA State U. Los Angeles	1,531 i	1,033 i	535	9,062	5,557	7,933	7,073	8,728

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
280	Morgan State U.	3,873 i	3,981	1,066	4,371	2,390	1,674	7,493	8,580
281	Embry-Riddle Aeronautical U.	2,540 i	2,647	2,647 e	2,700 e	7,711	5,102	6,641	8,558
282	Humboldt State U.	4,175 i	4,417	5,557	5,557 e	6,282 i	7,123 i	7,573 i	8,391 i
283	Bowling Green State U. all campuses	3,542	3,392	3,454	3,454 e	5,028	5,327	7,336	8,271
284	Duquesne U.	1,396	1,297	2,025	2,662	5,003	5,955	6,848	8,082
285	U. West FL	3,683 i	4,294	4,588	6,248	7,395	8,652	15,354	7,805
286	FL Institute of Technology	5,077	5,848	5,830	6,058	6,195	6,669	8,004	7,801
287	East TN State U.	2,252	3,152	3,351	6,494	8,222	11,701	12,971	7,788
288	Wesleyan U.	5,927	5,146	5,373	5,673	5,846	5,614	6,682	7,741
289	Alcorn State U.	4,243 i	5,119	5,223	8,034	7,370	5,809	7,619	7,622
290	Ball State U.	3,076	2,361	2,056	2,429	3,071	4,008	3,878	7,483
291	Tarleton State U.	2,695	3,954	3,905	3,872	6,607	7,871	8,534	7,194
292	CUNY Queens C.	2,686	3,353	3,083	3,827	4,595	6,718	6,430	6,819
293	Oakland U.	6,598	7,272	6,422	6,422 e	7,397	6,869	6,175	6,616
294	Villanova U.	2,141	4,714	3,950	5,280	5,380 i	5,481 e	6,000 i	6,455 i
295	Alfred U. all campuses	3,694	5,275	5,857	6,442	6,678	6,916	6,360	6,395
296	Rose-Hulman Institute of Technology	943 i	1,035 i	1,132	4,994	18,540	7,912	13,201	6,388
297	U. AR Pine Bluff	3,974	4,151	4,151 e	4,695 i	5,240	5,976	6,543	6,246
298	Norfolk State U.	1,401	2,524	2,995	3,408	3,984	4,967	4,532	6,200
299	Rowan U.	NA	NA	NA	NA	NA	NA	6,011	6,177
300	U.S. Naval Academy	3,268 i	2,651	2,316	2,786	3,140	2,324	3,451	5,985
301	VA State U.	3,988	3,338	2,611	4,422	5,066	7,144	7,209	5,953
302	MT Tech of the U. MT	3,852 i	4,230 i	4,613	4,155	4,616	4,797	6,155	5,952
303	Western KY U.	5,249 i	6,342	3,287	3,770	4,165	5,281	4,263	5,729
304	Wellesley C.	4,943	4,943 e	5,128 i	5,313 i	5,498	5,498 e	5,733	5,714
305	Central MI U.	843 e	0	755	755 e	2,032	2,252	2,339	5,681
306	Bryn Mawr C.	7,016	4,231	3,929	2,791	3,066	3,502	4,705	5,664
307	New School, The	5,011	3,705	5,230	5,209	5,791	5,791 e	3,435	5,642
308	Clark U.	2,417	2,147	2,651	2,908	3,039	3,418	5,638	5,638 e
309	Northeastern OH Universities C. of Medicine	2,990	2,918	3,389	4,011	4,532	4,525	4,364	5,601
310	Xavier U. LA	5,527	5,388	3,294	3,425	5,113	6,413	5,515	5,585
311	U. MD Eastern Shore	2,187	2,265	2,508	3,895	5,626	5,905	5,124	5,466 i
312	James Madison U.	1,434 i	1,568	1,781	1,121	1,449	2,867	4,484	5,442
313	CA State U. Dominguez Hills	5,869 i	7,191 i	8,517	998	4,311	3,970	4,503	5,320
314	Baylor U.	2,233	2,032	2,032 e	3,307	2,698	3,868	4,203	5,242
315	Nova Southeastern U.	1,402	1,986	3,106	2,919	2,594	3,327	4,752	5,139
316	CUNY Graduate Ctr.	4,999	5,109	1,098	739	2,906	2,391	3,068	5,106
317	U. LA Monroe	7,112	6,140	8,135	8,135 e	7,373 i	6,611 i	5,849 i	5,086
318	Fisk U.	1,969 e	2,909	4,034	3,401	2,722	3,030	3,000	5,000
319	U. HI Hilo	NA	NA	NA	NA	NA	10,841	5,317	4,978

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
320	CA State U. Bakersfield	346 i	274 i	200 e	3,703	3,703 e	4,199 i	4,464 i	4,946 i
321	C. Charleston	1,853 i	1,989	2,100	3,047	3,069	3,295	3,716	4,875
322	U. DC	3,244 e	3,074	3,394	2,737	3,001	4,223	4,125	4,693
323	AR State U. main campus	930 i	962	1,527	1,203	1,347	1,278	2,634	4,572
324	Western WA U.	3,481 i	3,716	3,894	3,433	3,560	4,019	4,716	4,519
325	CA State U. Chico	3,558	3,376	3,106	2,390	3,904	5,486	4,427	4,500 e
326	IL State U.	4,596	4,688 e	4,326	4,434	3,902	3,848	3,963	4,498
327	CA State U. Fullerton	1,749 i	1,749 e	3,632 i	5,515 i	7,398 i	9,282	5,318	4,432
328	Grand Valley State U.	1,247	892	992	1,138	1,161	2,374	2,237	4,408
329	DE State U.	1,947	2,883	2,765	3,415	2,494	3,162	3,944	4,370 i
330	Southern U. and A&M C. all campuses	10,249	9,063	9,296	8,302	7,306 i	6,310 i	5,314 i	4,317
331	U. AR Little Rock	NA	NA	NA	3,400 e	2,088	2,088 e	24,284	4,127
332	TX Southern U.	3,867	2,690	2,507	2,182	2,468	4,189	3,088	4,088
333	Union C. (Schenectady, NY)	687	694	1,043	1,002	1,045	2,316	2,086	4,068
334	CA State Polytechnic U. Pomona	1,589 i	1,331 i	1,069	1,703	2,498	2,806	3,922	4,059
335	Murray State U.	1,490	2,043	1,966	2,084	2,331	2,112	2,778	4,059
336	TX Christian U.	3,175	3,125	4,061	3,050	3,678	3,300	3,693	3,960
337	CUNY Brooklyn C.	2,969	3,132 e	5,293	6,342	6,442	6,217	5,575	3,917
338	West TX A&M U.	2,131 i	2,551	2,267	1,751	4,515	5,261	4,734	3,879
339	U. NC Greensboro	1,882	2,619	2,368	2,368 e	3,881	4,454	3,454	3,762
340	DePaul U.	1,103	1,233	1,028	863	1,628	2,389	3,086	3,748
341	U. TX-Pan American	1,547 i	1,664	1,684	1,688	2,279	2,336	2,920	3,747
342	Stephen F. Austin State U.	5,083	4,213	4,892	5,289	4,994	5,582	4,954	3,663
343	Langston U.	1,828	2,031	2,340	2,553	2,863	3,975	4,332	3,578
344	U. Central AR	NA	NA	NA	1,758	2,405	2,306	3,229	3,559
345	SC State U.	2,855	2,885	2,900	2,915	2,915 e	2,931	3,225	3,548
346	Sam Houston State U.	5,849	4,532	3,892	3,053	2,441	2,976	3,269 i	3,487 i
347	NY Institute of Technology all campuses	325	295	370	390	571	380	1,928 i	3,476
348	Fordham U.	3,663	2,247	3,134	3,584	3,639	3,793	3,814	3,391
349	U. PR Humacao U. C.	NA	NA	NA	NA	NA	NA	NA	3,382
350	Lamar U.	1,988	3,051	3,739	3,204	3,441	4,030	4,029	3,365
351	KY State U.	2,139	713	713 e	2,354 i	3,996	6,188	6,395	3,298
352	CUNY Herbert H. Lehman C.	1,247 e	1,308 i	1,370	1,632	2,255	2,955	3,981	3,291
353	Eastern MI U.	1,381 i	1,444 i	1,512	4,118	2,992	3,164	4,051	3,266
354	St. Joseph's U.	504 i	595	311	975	1,628	2,703	2,660	3,250
355	C. NJ, The	NA	NA	NA	NA	NA	2,686	2,856 i	3,165 i
356	Milwaukee School of Engineering	1,518 i	1,704	1,776	2,020	2,117	2,499	2,448	3,146
357	Central WA U.	1,400 i	1,563 i	1,731	2,006	1,880	1,738	2,698	3,134
358	Williams C.	1,853 i	1,853 e	1,853 e	1,853 e	2,407 i	2,961	3,295	3,130
359	Hampshire C.	3,185	2,972	2,900	2,658	3,152	3,224	2,754	3,051

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
360	U. North FL	NA	NA	NA	NA	1,222	2,061	4,421	3,029
361	CA State U. Monterey Bay	NA	NA	NA	NA	1,911	1,911 e	2,644	3,002
362	U. of the Pacific	2,601	886	999	1,020	1,241	1,891	1,877	2,961
363	Southwest MO State U.	1,923 i	1,797	1,324	1,324 e	1,550	1,888	1,423	2,935
364	Mt. Holyoke C.	980 i	1,033	1,721	1,835	1,734	2,644	3,174	2,877
365	Midwestern U. (Chicago, IL)	2,250	1,840	1,701	2,470	2,421	2,562	2,725	2,816
366	Occidental C.	2,220 i	2,220 e	862	826	1,543	2,503	2,633	2,781 i
367	CUNY C. Staten Island	794	1,014	979	1,208	1,635	1,944	2,540	2,730
368	Smith C.	1,344	1,295	1,107	2,582	2,578	1,827	2,194	2,631
369	Albany State U.	3,687 e	1,019	1,019 e	1,393	1,972	1,987	2,178	2,619
370	Amherst C.	1,604 i	1,573	1,498	1,859	1,802	2,115	2,115 e	2,604
371	Ft. Valley State U.	2,863	2,989	2,937	2,768	2,768 e	2,985	2,892	2,596
372	Maharishi U. of Management	0	0	0	1,632	1,612	3,112	2,541	2,541 e
373	Morehouse C.	592 e	592 e	2,853	2,853 e	2,853 i	2,853 i	2,410 i	2,518 i
374	Spelman C.	2,553	1,744	2,007	2,082	3,406	3,082	2,298	2,481
375	SUNY C. of Optometry	499	668	1,135	1,001	1,435	1,750	3,187	2,435
376	Middle TN State U.	465	297	618	733	799	479	2,219	2,421
377	Western Carolina U.	332	442	501	580	763	653	577	2,414
378	OR Institute of Technology	NA	NA	NA	NA	NA	1,025	1,752	2,378
379	SUNY C. Buffalo	2,448	1,157	1,689	1,683	1,552	1,969	2,610	2,375
380	Macalester C.	1,032 i	1,253 i	1,474 i	1,695 i	1,923	3,024	2,091	2,371
381	Indiana U. PA all campuses	512	512 e	389	731	756	794	841	2,368
382	New England C. of Optometry	1,111	1,734	1,643	1,228	1,608	2,154	2,166	2,297
383	Claremont Graduate U.	902	401	1,870	2,416	2,369	1,949	1,652	2,295
384	Vassar C.	596 i	596 e	1,156 i	1,716	1,716 e	1,946 i	2,130 i	2,249 i
385	Hope C.	978 i	1,007 i	1,039	922	1,417	1,514	1,457	2,213
386	Swarthmore C.	869	996	996 e	996 e	966	1,574	1,717	2,200
387	Lincoln U. (Jefferson City, MO)	2,899	3,313	2,686	2,502	2,236	3,291	2,601	2,181
388	Harvey Mudd C.	4,444 i	5,069 i	5,699 e	5,699 e	4,820 i	3,941 i	3,062 i	2,180 e
389	CA State U. Hayward	1,088 i	1,360 i	1,632 i	1,904 i	2,176 i	2,455	1,559	2,160
390	Ithaca C.	1,256 i	1,499	2,066	2,565	2,034	2,513	2,187	2,152
391	TX Woman's U.	2,224	2,359	2,179	3,005	2,898	2,822	2,932	2,120
392	Pittsburg State U.	361	1,631	1,614	1,663	2,161	1,951	1,894	2,101
393	Savannah State U.	316	331	513	905	2,181	2,206	2,150 i	2,094
394	Bowdoin C.	425	474	510	576	512	1,176	1,673	2,073
395	Winston-Salem State U.	2,034	2,468	1,712	3,447	6,057	2,022	2,022 e	2,073 e
396	U. Southern ME	568 i	614	1,366	1,366 e	1,544 i	1,751 i	1,862 i	2,063 i
397	SUNY C. Oswego	803	716	542	744	783	1,112	1,207	2,055
398	GA Southern U.	951 i	893 i	833	944	841	1,127	2,488	2,042
399	U. WI Stevens Point	1,324	1,112	1,302	1,227	1,827	1,849	1,980	2,042

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
400	U. Redlands	NA	NA	NA	NA	NA	2,728	1,848	2,038
401	NM Highlands U.	2,627 i	2,669 i	2,712	6,511	2,235	2,706	2,598	2,032
402	Christopher Newport U.	NA	NA	NA	NA	NA	NA	2,055	2,029
403	St. Cloud State U.	1,617 i	1,935	1,935 e	1,935 e	2,066 i	2,197 i	2,329	2,005
404	Pomona C.	1,088 i	1,010	1,619	1,791	1,298	2,063	1,962	1,996
405	U. Northern CO	799	736 e	701	1,128	1,265	1,376	2,240	1,966
406	U. WI La Crosse	1,045	1,185	1,113	1,404	1,563	1,939	1,483	1,963
407	West Chester U. PA	506	672	769	794	794 e	1,115	883	1,956
408	Seton Hall U.	2,400 e	2,400	1,116	996	826	1,200	1,779	1,941
409	Grambling State U.	2,634	1,997	1,997 e	2,264	2,264 e	2,452	2,218	1,934
410	Colgate U.	NA	NA	NA	1,664	1,694	1,544	1,425	1,927
411	Fairfield U.	737 i	845 i	953 i	1,061	1,648	810	1,024	1,926
412	Calvin C.	853 i	943 i	1,033	1,191	1,300	1,509	1,714	1,907
413	Carleton C.	932 i	930 i	927	1,245	1,176	1,688	1,965	1,897
414	Bowie State U.	2,672	4,511	2,675	2,675 e	2,207	2,330	2,206	1,883
415	Youngstown State U.	752 i	898	468	532	849	1,259	1,398	1,831
416	Bucknell U.	1,109 i	1,221 i	1,335	1,835	1,791	1,900	2,123	1,817
417	Lafayette C.	600 i	625	600	665	1,008	1,344	2,065	1,806
418	Gallaudet U.	2,479 i	2,212	2,348	1,752	1,824	1,950	2,013	1,804
419	American U.	3,029	3,453	2,987	2,245	2,565	4,420	2,517	1,745
420	U. WI Green Bay	533	491	478	543	602	900	1,122	1,739
421	U. New Haven	558 e	558 e	198	198 e	1,492	1,492 e	1,633 i	1,724 i
422	CUNY York C.	1,311	1,526	1,392	1,341	1,117	1,664	1,829	1,710
423	AL State U.	818	1,177	1,365	1,365 e	1,433 e	1,433	1,633	1,688
424	Southeastern LA U.	778 i	875 i	976	1,057	645	836	900	1,681
425	IN State U. all campuses	1,265	5,255	4,977	4,196	1,504	1,220	1,369	1,680
426	Haverford C.	1,304	1,303	1,104	1,191	1,178	1,215	1,428	1,679
427	Middlebury C.	760 i	753 i	742	1,371	1,285	1,587	1,587 e	1,658 i
428	U. NC Asheville	671 i	706 i	742	861	1,269	1,232	1,108	1,644
429	Bradley U.	1,291 i	1,493	1,341	1,371	1,197	1,928	1,755	1,638
430	U. Richmond	937	1,035	1,099	1,178	1,271	1,786	1,470	1,625
431	Dickinson C.	NA	1,789	948	739	1,528	1,475	1,550	1,608
432	St. John's U. (Jamaica, NY)	2,216	1,572	1,617	1,184	1,184 e	1,315 i	1,463 i	1,574 i
433	Furman U.	665	522	365	793	719	1,414	1,136	1,556
434	U. Scranton	2,608 i	2,861 i	3,114 i	3,367 i	3,620 i	3,873	2,599	1,528
435	Barnard C.	943 e	1,172	1,181	1,347	1,376	1,064	1,516	1,516 e
436	PA C. of Optometry	479 i	394 i	307	581	800	992	1,226	1,509
437	U. IL Springfield	NA	NA	NA	910	2,025	2,324	1,324	1,491
438	Morehead State U.	735 i	859 i	983 i	1,107 i	1,231 i	1,355 i	1,487	1,443
439	WV State C.	256	119	55	55 e	63 e	519 i	975 i	1,433

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
440	Trinity U.	1,074 i	971 i	867	1,241	1,241 e	474	935	1,428
441	U. Northern IA	1,623	1,682	1,542	1,744	1,961	2,254	1,821	1,424
442	Northeastern State U.	NA	NA	NA	NA	NA	1,314	1,283	1,422 i
443	FL Gulf Coast U.	NA	NA	NA	NA	NA	NA	NA	1,407
444	Western IL U.	14,152	15,882	10,049	8,489	7,759	7,042	1,350	1,404
445	Hamilton C. (Clinton, NY)	475 i	475 e	751 i	1,027	931	1,821	1,459	1,393
446	CO C.	235 i	211	877	1,213	1,548	1,286	1,318	1,377 i
447	Long Island U. all campuses	902	1,221	1,406	1,267	1,201	1,477	1,769	1,377
448	Eastern WA U.	2,445 i	2,445 e	2,356	2,108	2,620	2,275	1,156	1,339
449	Western U. of Health Sciences	58	295	295 e	332 i	369	1,132	1,005	1,330
450	SUNY C. Old Westbury	991	777	691	1,310	1,310 e	1,214	1,295	1,326
451	Franklin & Marshall C.	1,106 i	1,158	1,424	1,188	698	989	1,028	1,300
452	Reed C.	481 i	441 i	400 e	716	814	1,145	1,129	1,295
453	Chicago State U.	759	713	1,266	1,263	1,415	1,297	1,155	1,280 i
454	Rider U.	NA	NA	NA	891	884	939	912	1,276
455	Shaw U.	147	110	100	100 e	487 i	874 i	1,261	1,270
456	Coastal Carolina U.	NA	NA	NA	1,277	1,038	1,100	940	1,260
457	Drake U.	359 i	354 i	349	468	366	1,053	1,053 e	1,255
458	U. WI Oshkosh	574	636	603	585	670	662	942	1,252
459	SUNY C. Plattsburgh	951	1,133	793	996	1,118	1,061	1,494	1,224
460	NC Central U.	869 e	869	825 e	808 i	913 i	1,035 i	1,100 i	1,219 i
461	Black Hills State U.	NA	NA	NA	NA	NA	NA	NA	1,184
462	U. San Francisco	609 i	555 i	500 e	700	700 e	695 i	690	1,163
463	U. WI Stout	1,306	1,386	976	1,236	1,070	1,358	1,437	1,144
464	U. Hartford	365	397	773	1,061	1,068	1,130	1,336	1,136
465	U. WI Superior	494	383	505	380	404	889	1,057	1,136
466	Pace U. all campuses	0	596	571	289	378	425	425 e	1,099
467	U. of Health Sciences	652	885	885 e	677	1,166	1,436	1,020	1,098
468	Nicholls State U.	NA	NA	NA	504	687	820	690	1,075
469	Sul Ross State U.	320	602	630	796	779	767	838	1,058
470	U. WI Eau Claire	479	613	604	684	514	839	1,131	1,056
471	Montclair State U.	253 i	300 i	347 i	396	766	889	945 i	1,047 i
472	Elizabeth City State U.	1,379	684	1,040	1,558	1,248	1,058	1,103	1,044
473	Benedict C.	634 e	800 i	966 i	1,143	1,044	1,061	1,071	1,035
474	State U. West GA	1,028 i	1,235 i	1,442 i	1,655	1,360	1,029	1,034	1,027
475	Allegheny C.	662 i	697 i	734	318	1,023	1,306	974	1,007
476	Bates C.	402	682	754	598	940	1,217	1,340	1,006
477	Colby C.	368 i	389	355	392	968	2,929	1,294	995
478	U. AK Southeast all campuses	415 i	504 i	593 i	682 i	771 i	868 e	1,171	968
479	Chapman U.	265 i	301 i	337 i	373	460	1,068	1,016	965

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
480	Grinnell C.	332 i	332 e	4,300	1,500	560	1,098	977	964
481	Philadelphia C. of Osteopathic Medicine	688	516	1,050	930	935	891	836	961
482	Loyola C.	905	1,303	1,445	1,724	954	1,140	454	935
483	MN State U. Mankato	1,730 i	1,939	564	607	751	1,054	768	929
484	CUNY John Jay C. of Criminal Justice	688	1,325	1,442	1,274	1,070	844	930	900
485	Juniata C.	185 i	176 i	164	168	171 e	283	530	898
486	U. San Diego	248	484	343	545	240	2,686	1,046	895
487	Simmons C.	744 i	838 i	937	912	710	872	978	892
488	Tougaloo C.	1,815	1,180	1,227	895	1,007	1,007 i	851 i	889 i
489	Pacific U.	0	0	0	264	299	157	823	885 i
490	Northern KY U.	249 i	219 i	185	115	142 i	169	434	876
491	U.S. Coast Guard Academy	302 i	300	570	405	468	1,128	1,166	866
492	SUNY C. Geneseo	461	475	543	686	644	682	1,366	862
493	Albany C. of Pharmacy	NA	NA	NA	1,360	1,208	906	894	855
494	AR Tech U.	443 i	419	598	419	526	526 e	684 i	842
495	Kirksville C. of Osteopathic Medicine	644	509	743	816	907	1,134	691	839
496	Southern OR U.	315	341	320	301	200	585	741	836
497	McNeese State U.	25	410	699	639	471	709	743	834
498	Hofstra U.	717	717	716	787	661	661 e	735 i	791 i
499	CO State U. Pueblo	884	824	979	724	753	597	628	786
500	Skidmore C.	173 i	151	236	314	250	519	632	785
501	Trinity C. (Hartford, CT)	1,233 i	1,390 i	1,552	1,010	1,010 e	464	856	768
502	SUNY C. Brockport	591	609	676	722	722 e	739 i	757	755
503	U. Houston-Clear Lake	2,513 i	1,691	5,963	7,091	11,519	8,362	1,224	754
504	Seattle U.	327 i	386 i	445 i	504 i	563 i	622 i	681 i	744
505	Loyola Marymount U.	NA	NA	NA	NA	NA	NA	674	736
506	Bethune-Cookman C.	606	566	583	586	926	794	741	723
507	Whitman C.	485 i	444	492	483	469	278	619	714
508	Gustavus Adolphus C.	290 i	256 i	222	143	284 i	425 i	566 i	707
509	CUNY Baruch C.	113	319 i	526	375	375 e	762	507	687
510	C. of the Holy Cross	437	430	252	371	664	532	490	683
511	Dillard U.	175	175 e	175	264	349	528	668	679
512	Des Moines U. Osteopathic Medical Ctr.	302	416	673	417	767	767 e	676	676 e
513	Kettering U.	413 i	433	647	625	1,161	1,311	1,295	661
514	Lawrence Technological U.	123 i	104	344	821	681	539	471	655
515	U. Portland	306	282	387	552	719	639	543	634
516	Hendrix C.	280 i	330 i	380 i	430 i	480 i	530 i	580 i	631
517	U. Houston-Downtown	1,028 i	1,060 i	1,096	837	837 e	1,054	661	627
518	CT C.	432 i	432 e	432 i	423 i	478 i	542 i	593 i	626 i
519	Towson U.	247	959	1,452	2,138	2,282	2,449	1,265	614

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
520	Hartwick C.	140 i	153 i	166 i	179 i	192 i	205 i	221	609
521	U. WI Parkside	339	187	158	362	575	769	559	608
522	Augustana C. (Rock Island, IL)	58 i	58 e	88 i	118 i	148 i	178 i	212	599
523	Central State U.	1,786 e	1,497	1,497 e	560 e	560 i	560 i	574 i	597 i
524	Truman State U.	764	754	754 e	665 i	576 i	487	521	588
525	Andrews U.	381	290	290 e	444	712	597	469	584
526	CUNY Medgar Evers C.	NA	NA	NA	291	756	992	670	568
527	Lake Forest C.	80 i	103	190	399	375	283	271	561
528	Southern U. New Orleans	NA	NA	NA	183	680	937	587	556
529	Appalachian State U.	511	558	621	694	752	781	986	555
530	Roanoke C.	NA	NA	NA	NA	NA	NA	476	554
531	Valparaiso U.	443	571	569	725	391	349	356	551
532	U. Detroit Mercy	2,260	1,853	1,870	1,767	1,236	746	548	548 e
533	U. of the Sciences Philadelphia	650	358	358 e	532	573	833	453	544
534	VA Military Institute	429	334	394	470	613	695	904	543
535	Lincoln U. (Lincoln University, PA)	1,032	1,364	972	709	620	718	704	526
536	Kalamazoo C.	240 i	279 i	318 i	357 i	396 i	435 i	474 i	519
537	St. Olaf C.	432 i	469 i	506	544	453	847	710	516
538	St. Mary's U. (San Antonio, TX)	118 i	0	0	287	362	293	300	512
539	Oakwood C.	718	845	567	567 e	567 i	567 i	479 i	501 i
540	Augsburg C.	430 i	368 i	303	337	497	655	734	493
541	MS Valley State U.	563	350	495	834	1,316	1,030	636	493
542	Mt. St. Mary's C. (Los Angeles, CA)	NA	NA	NA	NA	NA	NA	NA	492
543	John Carroll U.	895 i	983 i	1,072	1,072 e	515	823	442	478
544	MA C. of Pharmacy and Health Sciences	235	89	89 e	253 i	417	392	1,043	457
545	Wabash C.	NA	NA	NA	NA	NA	NA	NA	454
546	Southern CT State U.	227 i	209 i	188	596	596 e	361	2,911	424
547	Denison U.	350 i	333 i	314	328	384	373	546	415
548	National U. of Health Sciences	NA	NA	NA	NA	NA	577	620	401
549	Lewis and Clark C.	425 i	468	600	529	420	593	622	399
550	U. Puget Sound	271 i	287 i	303 i	319 i	335 i	351 i	367 i	398
551	SUNY C. Cortland	357	55	82	362	378	353	446	392
552	Central CT State U.	212 i	213 i	214 i	218	259	283	355	388
553	Southeastern OK State U.	NA	NA	NA	NA	NA	NA	231	383
554	Oberlin C.	513 i	570 i	627 i	691	325	439	471	381
555	Kennesaw State U.	158	132	142	249	298	221	300	374
556	Evergreen State C.	562 i	630 i	698 i	766	487	441	511	354
557	Roger Williams U. Bristol	NA	NA	NA	NA	NA	NA	NA	352
558	Eastern KY U.	24,621 i	30,662 i	36,708	640	770	666	506	345
559	U. WI River Falls	262	242	231	152	288	332	331	345

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
560	U. WI Whitewater	395	282	148	272	260	236	224	341
561	Saginaw Valley State U.	1,031 i	943 i	855 i	767 i	679 i	591	442	332
562	SUNY Purchase C.	241	165	188	139	211 i	284	282	330
563	St. Mary's C. MD	NA	NA	NA	447	251	274	335	322
564	Pitzer C.	240	260	297	383	322	287	343	320
565	Eckerd C.	NA	NA	NA	NA	NA	NA	NA	317 i
566	Eastern IL U.	NA	NA	NA	0 e	NA	NA	NA	315 i
567	New C. FL	NA	NA	NA	NA	NA	132	206	305
568	Morris Brown C.	525	525 e	321 i	116	116 e	343	290 i	303 i
569	Wilkes U.	NA	NA	NA	NA	NA	95	427	300
570	OH Wesleyan U.	619	197	255	255 e	269 i	284	284 e	297 i
571	Augustana C. (Sioux Falls, SD)	341 i	334 i	327 i	320 i	313 i	304	324	288
572	Eastern OR U.	NA	NA	NA	NA	NA	398	226	288
573	Providence C.	44	62	86	86 e	154 i	223	223 e	286
574	C. Wooster	219	323	379	593	286	362	413	281 e
575	U. of St. Thomas (St. Paul, MN)	297 i	306	78	143 i	209	243	192	281
576	NJ City U.	NA	NA	NA	NA	NA	267	326	273
577	Manhattan C.	689 i	563	485	509	509 e	257	257 e	271 i
578	Wiley C.	NA	0	0	0	0	15	298	270
579	TX A&M U. Commerce	290	361	168	327	262	263	303	267
580	Widener U. all campuses	0	0	70	208	208 e	231 i	253 i	267 i
581	La Salle U.	215	157	244	126	294	20	104	260
582	Sonoma State U.	NA	194	134	150	736	341	493	260
583	Bridgewater State C.	395 i	330 i	260	585	371	473	419	258
584	Claffin U.	1,254	1,403	555	555 e	2,074	203	293	255
585	Jarvis Christian C.	83	55	56	55	55 e	30	335	247
586	WV School of Osteopathic Medicine	146	146	99	132	129	182	188	245
587	U. Findlay, The	NA	NA	NA	350	182	250	200	231
588	Abilene Christian U.	360 i	330	272	252	319	254	231	229
589	Willamette U.	NA	340	58	266	344	254	276	228
590	Ft. Lewis C.	447	599	243	191	314	286	231	227
591	Iona C.	145	151 i	157 i	163 i	169 i	177	232	223
592	Northeastern IL U.	530	186	101	184	274	216	168	206
593	DePauw U.	NA	NA	NA	NA	NA	NA	NA	199 i
594	Radford U.	NA	273	181	624	665	562	294	195
595	SUNY Fredonia	154	118	92	194	224	235	271	193
596	Fayetteville State U.	139	485	265	507	589	311	586	166
597	U. Central OK	196 i	215	1,173	509	795	810	180	157
598	Bluefield State C.	NA	15	0	0	0	0	54	156
599	Cooper Union	1,515 i	1,515 e	144	284	501	427	502	150

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2004 R&D expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
600	Goucher C.	117	NA	NA	NA	NA	NA	NA	150 i
601	Prescott C.	NA	NA	NA	NA	NA	NA	NA	150 i
	All other sampled institutions	143,961	163,040	90,861	91,385	79,578	70,617	24,468	0

e = estimated.

i = imputed.

NA = not available.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$670 million in total R&D expenditures.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
	All institutions	14,314,924	15,151,228	16,101,914	17,535,692	19,222,037	21,862,995	24,743,653	27,379,233
1	Johns Hopkins U., The ^a	724,526	752,983	770,580	793,266	879,741	1,022,510	1,106,971	1,229,426
2	U. WA	320,784	342,291	368,112	389,622	435,103	487,059	565,602	625,218
3	Stanford U.	332,272	342,426	353,947	367,083	384,468	426,620	483,540	541,667
4	U. MI all campuses	296,028	311,450	334,226	364,033	396,117	444,255	516,818	521,339
5	U. CA, San Diego	238,569	263,103	292,007	326,037	343,276	359,383	400,100	465,629
6	U. CA, Los Angeles	215,937	234,005	251,999	274,162	312,858	366,762	421,174	461,145
7	U. PA	217,125	247,914	279,013	312,434	351,996	397,587	415,631	435,343
8	U. WI Madison	233,760	240,513	249,212	278,629	304,009	345,003	396,231	434,423
9	MA Institute of Technology	311,396	310,741	308,921	306,668	304,319	330,409	356,206	427,552
10	U. CA, San Francisco	206,749	219,630	233,181	248,878	277,489	327,393	371,697	418,944
11	U. CO all campuses	192,201	228,342	244,686 e	300,667 i	308,643	340,466	377,941	414,986
12	Columbia U. in the City of NY	212,180	229,723	240,158	283,163	317,928	356,749	385,529	406,576
13	Harvard U.	222,612	251,876	266,019	281,699	300,414	336,607	348,620	399,764
14	U. Pittsburgh all campuses	160,833	168,511	194,618	228,155	268,571	306,913	345,625	394,444
15	Washington U. St. Louis	186,993	187,173	218,598	254,148	284,928	303,441	357,364	371,043
16	PA State U. all campuses	185,206	186,274	199,105	226,074	245,951	284,706	301,094	347,996
17	Duke U.	155,894	172,532	186,757	204,180	218,109	261,356	306,864	347,896
18	Cornell U. all campuses	205,521	204,187	234,792	229,872	240,466	270,578	320,868	339,107
19	Yale U.	189,124	205,046	213,404	232,019	250,702	274,304	296,713	330,837
20	Baylor C. of Medicine	97,829	110,610	141,111	193,249	234,394	259,475	302,764	312,669
21	U. Southern CA	191,809	190,547	199,619	210,872	246,207	266,645	300,195	312,589
22	U. MN all campuses	200,149	204,741	207,761	229,958	264,289	295,301	293,266	308,369
23	U. NC Chapel Hill	153,985	171,505	182,935	194,794	221,615	254,571	280,678	304,204
24	OH State U. all campuses	122,582	124,177	135,216	132,219	161,092	177,883	198,488	284,675
25	U. AZ	152,221	161,999	178,126	187,161	199,484	211,772	259,074	283,956
26	U. IL Urbana-Champaign	156,366	171,250	185,767	193,490	195,316	214,323	266,487	275,896
27	U. CA, Berkeley	159,275	171,747	191,025	208,338	208,080	217,297	238,206	268,830
28	U. AL Birmingham, The	150,501	166,830	165,223	175,309	194,625	216,221	245,217	261,664
29	Vanderbilt U.	98,744	106,325	116,887	129,986	146,230	172,858	221,979	261,484
30	CA Institute of Technology	164,225	177,748	195,303	196,877	193,554	199,944	219,097	244,187
31	Emory U.	108,522	118,045	132,816	144,914	170,317	186,083	228,255	243,248
32	GA Institute of Technology all campuses	112,544	113,643	112,861	126,164	143,836	165,680	203,582	237,483
33	U. TX Austin	151,954	165,082	164,913	178,889	195,184	219,158	231,996	235,281
34	U. Rochester	118,477	130,773	132,852	150,593	166,945	195,298	208,148	231,193
35	Northwestern U.	108,292	127,911	132,647	150,238	158,129	178,607	200,316	230,593
36	U. Chicago	121,683	125,982	135,720	140,872	155,566	183,830	201,129	229,102
37	U. CA, Davis	104,943	114,018	124,463	141,740	154,937	176,644	208,327	221,937
38	U. FL	94,328	106,510	122,296	120,374	135,421	167,108	194,958	221,898
39	Boston U.	97,522	104,428	123,390	133,730	150,771	171,438	203,947	219,054

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
40	U. IA	108,534	115,312	122,638	140,764	155,249	180,743	197,260	209,865
41	OR Health & Science U.	68,637	82,146 i	95,655 i	109,165	111,671	130,231	164,221	206,219
42	U. TX Southwestern Medical Ctr. Dallas	89,357	97,200	101,996	109,165	131,820	155,258	177,196	200,888
43	Case Western Reserve U.	120,992	132,274	140,178	150,586	158,852	181,888	205,452	195,525
44	U. Cincinnati all campuses	78,292	90,307	100,325	110,296	128,049	150,166	185,261	194,965
45	U. IL Chicago	70,739	73,797	86,406	101,943	125,109	143,183	168,063	192,825
46	U. VA all campuses	82,488	99,173	107,856	115,684	122,868	152,358	173,442	188,121
47	U. HI Manoa	72,421	86,886	93,418	95,419	97,716	110,882	143,580	187,035
48	NY U.	94,117	101,426	111,124	117,163	129,897	149,995	166,033	181,441
49	U. MD College Park	102,928	129,198	145,081	136,605	145,515	194,095	183,206	180,943
50	TX A&M U. all campuses	145,066	144,938	149,151	149,639	149,382	163,488	177,119	173,705
51	Carnegie Mellon U.	91,527	95,046	90,408	91,191	97,463	137,967	157,583	172,858
52	Mt. Sinai School of Medicine	60,914	69,995	84,624	98,188	109,344	125,979	152,719	170,757
53	IN U. all campuses	95,931	95,840	102,262	107,577	116,781	132,759	153,625	166,913
54	U. UT	99,322	100,722	111,716	124,344	127,253	142,625	152,112	161,119
55	Yeshiva U.	77,936	80,000	89,680	101,631	107,800	114,268	128,894	151,520
56	U. CA, Irvine	64,293	66,602	75,505	88,274	101,735	115,548	133,873	150,995
57	U. TX M. D. Anderson Cancer Ctr.	49,702	63,074	69,413	81,872	94,053	117,633	122,869	150,529
58	CO State U.	79,393	80,451	91,943	101,429	101,308	112,650	117,151	145,213
59	Purdue U. all campuses	91,969	92,844	95,708	92,010	98,151	107,477	129,199	144,090
60	SUNY Buffalo all campuses	78,092	76,037	85,490	96,410	96,595	121,376	129,794	143,865
61	MI State U.	82,977	81,146	89,835	97,112	112,359	122,595	133,820	143,473
62	U. Miami	101,516	101,492	101,883	106,633	111,803	121,171	130,863	141,943
63	U. MD Baltimore	72,100	78,037	84,516	91,212	99,091	117,017	126,156	141,221
64	U. KY all campuses	62,128	60,760	66,184	73,858	86,239	100,426	120,003	129,887
65	Rutgers, The State U. NJ all campuses	68,225	69,829	75,664	79,711	77,156	91,205	110,041	128,655
66	U. CT all campuses	49,503	53,189	55,496	66,144	70,013	93,326	111,654	127,609
67	U. South FL	31,068	35,930	42,005	50,557	58,826	84,108	106,102	126,906
68	U. MA Worcester	43,350	53,766	55,516	64,212	79,453	93,992	109,082	126,162
69	SUNY Stony Brook all campuses	86,568	91,531	93,937	96,641	93,265	108,122	112,452	123,124
70	Dartmouth C.	43,154	45,053	46,741	56,369	69,844	87,255	106,034	123,109
71	U. of Medicine and Dentistry NJ	57,471	59,828	61,730	75,318	86,054	90,235	105,495	121,812
72	Wake Forest U.	54,287	56,705	60,293	65,585	78,021	91,738	108,467	120,075
73	U. NE all campuses	56,130 i	58,517 i	56,339 i	60,161	69,232	82,728	96,627	115,833
74	Wayne State U.	53,707	57,646	57,610	64,320	79,448	95,910	102,963	114,700
75	U. NM all campuses	76,978	84,365	84,976	100,442	109,505	104,252	106,541	112,299
76	LA State U. all campuses	65,257	67,090	75,831	89,007	94,625	97,928	99,143	112,169
77	Princeton U.	69,667	69,005	72,974	74,681	78,620	97,724	104,011	111,435
78	U. TN all campuses	74,049	69,793	70,187	72,059	78,611	88,344	100,486	109,357
79	UT State U.	49,594	54,903	54,433	57,378	74,251	79,393	95,494	107,945

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
80	U. TX Health Science Ctr. Houston	67,205	70,446	71,288	79,665	88,545	98,676	107,481	106,737
81	OR State U.	80,131	82,416	81,649	80,398	84,854	91,683	100,499	104,276
82	NC State U.	69,473	79,533	80,518	90,725	95,875	91,981	96,157	103,586
83	Medical U. SC	37,790	36,473	30,997	41,432	60,543	75,803	92,893	103,494
84	FL State U.	52,945	50,451	55,666	56,830	57,075	70,456	87,985	102,967
85	U. TX Medical Branch	42,006	48,588	55,061	61,357	64,682	78,100	93,039	102,491
86	U. KS all campuses	46,733	50,567	57,272	68,950	74,494	82,663	90,876	101,920
87	Medical C. WI	39,364	43,831	47,087	55,034	64,003	76,241	83,026	100,547
88	Woods Hole Oceanographic Institution	66,386	64,765	59,534	67,036	75,670	78,458	84,410	100,456
89	U. GA	54,364	54,712	56,080	62,678	66,913	78,086	93,884	96,348
90	Georgetown U.	84,198	84,801	83,972	98,836	93,626	87,087	83,745	95,852
91	VA Polytechnic Institute and State U.	87,657	82,734	75,386	71,127	77,384	82,976	98,143	95,669
92	SUNY Albany	41,190	33,894	46,242	62,059	46,671	40,497	76,038	94,712
93	Tufts U.	55,421	61,167	62,836	64,677	71,669	73,236	78,942	92,997
94	Tulane U.	49,708	52,924	50,779	52,080	55,669	64,824	82,118	92,331
95	Thomas Jefferson U.	49,091	51,728	56,369	67,448	64,881	79,217	85,348	92,296
96	U. CA, Santa Barbara	64,915	68,680	74,026	80,754	76,828	78,370	88,422	92,248
97	IA State U.	52,938	51,196	54,179	59,976	62,024	71,419	82,297	92,235
98	U. MO-Columbia	43,335	45,448	53,875	65,420	68,435	77,742	84,211	90,304
99	U. TX Health Science Ctr. San Antonio	53,478	51,954	56,904	65,251	71,153	83,761	86,683	89,662
100	VA Commonwealth U.	44,982	48,167	48,175	52,137	57,315	65,028	81,201	89,066
101	Brown U.	43,664	44,412	45,276	49,943	58,367	68,215	81,445	84,126
102	Rockefeller U.	43,979	43,845	45,010	45,211	55,362	67,559	75,303	82,535
103	MS State U.	34,928	42,004	46,528	53,808	65,493	77,521	79,837	82,205
104	U. OK all campuses	45,756	54,451	57,589	60,542	60,264	69,388	75,318	81,048
105	AZ State U. main campus	37,700	41,359	53,905	49,935	56,616	64,407	71,741	79,877
106	U. VT	34,042	31,460	36,085	39,861	48,810	58,280	70,832	79,015
107	George Washington U.	34,182	45,072	49,944	49,627	51,757	58,729	68,959	78,192
108	U. DE	32,031	33,688	34,628	37,716	41,830	48,183	69,493	76,583
109	NM State U. all campuses	57,165	56,587	56,875	57,073	61,124	70,314	75,368	76,396
110	U. AK Fairbanks all campuses	28,127	31,505	34,647	46,605	55,287	66,169	72,607	75,269
111	WA State U.	45,030	44,510	44,610	48,441	48,660	61,138	70,653	74,944
112	U. SC all campuses	37,005	42,586	48,490	51,872	51,983	53,403	63,044	71,856
113	U. NH	24,128	25,913	30,586	38,921	45,223	50,829	59,463	67,917
114	U. MA Amherst	40,925	43,196	39,877	44,712	49,576	54,770	60,839	65,452
115	Naval Postgraduate School	31,618	33,308	33,308 e	39,596 i	45,884 i	52,172 i	58,463	64,667 i
116	Uniformed Services U. of the Health Sciences	9,218	7,547	9,696	11,023	10,105	10,294	9,527	62,408
117	Clemson U.	28,092	28,199	27,064	31,304	48,560	47,174	62,552	61,065
118	WV U.	29,443	24,985	26,264	28,013	29,440	49,394	60,586	60,819
119	U. MS all campuses	15,696	16,463	19,053 i	28,107	39,451 i	50,795 i	62,140	59,787

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
120	MT State U. Bozeman	19,707	23,982	26,231	30,564	34,857	39,986	53,283	58,874
121	U. Dayton	36,196	36,329	30,755	31,717	34,102	40,191	47,327	56,647
122	KS State U.	25,781	27,001	28,102	31,185	33,998	43,988	53,313	56,088
123	Drexel U.	10,545	10,929	12,914	14,292	20,159	30,232	49,271	54,963
124	U. Louisville	13,521	15,067	15,536	17,713	25,116	38,978	39,924	54,476
125	U. AR for Medical Sciences	19,249	21,857	26,392	29,962	34,219	27,491	41,681	53,249
126	U. CA, Santa Cruz	24,005	29,881	25,084	25,959	29,201	32,901	38,213	53,196
127	Rush U.	24,382	28,444	31,119	32,573	37,301	44,756	49,834	51,706
128	Rice U.	37,935	34,772	35,012	35,144	35,682	39,739	43,706	51,157
129	U. NV, Reno	20,813	20,383	24,587	26,267	31,386	39,958	47,756	50,787
130	Temple U.	26,374	28,793	29,734	38,213	41,643	44,577	51,309	50,456
131	Auburn U. all campuses	27,412	27,706	27,058	31,515	40,097	42,432	45,374	49,565
132	U. of Notre Dame	19,173	23,053	23,614	27,362	29,801	33,285	41,220	48,650
133	U. RI	35,733	33,308	36,207	38,538	43,161	45,453	51,942	48,590
134	U. ID	17,416 i	18,352	24,263	23,014	26,548	33,465	42,861	48,565
135	FL International U.	13,828	14,243	15,757	20,296	23,940	32,057	40,860	47,913
136	ND State U. all campuses	6,432	9,787	12,308	15,463	15,207	21,414	37,940	45,375
137	U. Central FL	13,361	13,502	16,048	13,801	22,342	29,929	47,749	44,020
138	U. OR	26,020	27,041	27,336	30,793	32,232	37,177	36,127	43,634
139	OK State U. all campuses	21,455	23,220	23,179	24,770	25,636	31,100	37,748	43,345
140	Syracuse U. all campuses	23,780 i	29,200	30,050	29,620	30,036	32,704	34,559	43,162
141	U. CA, Riverside	24,006	22,999	19,994	21,085	25,713	32,305	40,409	40,981
142	Charles R. Drew U. of Medicine and Science	16,052 e	16,052 e	22,212	21,969	27,415	39,259	39,407	40,430
143	Howard U.	25,884	21,501	21,658	25,292	27,848	33,949	36,137	40,086
144	George Mason U.	14,652	17,268	19,492	20,669	25,992	31,890	38,510	39,758
145	U. AL Huntsville, The	21,731	23,772	25,166	25,939	30,625	35,660	35,558	39,607
146	Brandeis U.	25,233	28,098	29,423	26,444	30,031	29,006	33,722	38,041
147	U. MD Baltimore County	9,816	12,618	15,624	20,244	23,695	29,376	34,164	37,548
148	San Francisco State U.	3,744 i	3,689 i	3,630 e	4,561 e	4,561 e	13	6,089	37,056
149	St. Louis U. all campuses	23,218	23,341	23,722	26,453	28,117	31,215	36,989	36,989 e
150	Rensselaer Polytechnic Institute	22,785	21,774	22,803	25,555	25,894	26,490	32,295	36,651
151	U. ME	15,066	13,028	19,163	24,412	23,873	23,732	28,901	36,513
152	U. ND all campuses	17,775	13,404	13,615	13,880	15,743	25,004	28,336	36,349
153	Medical C. GA	11,904	13,127	13,991	15,210	21,116	23,317	28,280	35,841
154	U. MT, The	11,554	11,748	14,627	18,378	19,194	22,612	27,220	34,478
155	U. Houston	21,695	22,018	20,443	21,365	21,876	31,455	32,556	34,468
156	SUNY Health Science Ctr. Brooklyn	18,996	18,318	21,053	22,860	22,860 e	25,495 i	29,127 i	32,218 i
157	U. Southern MS	7,766	9,536	14,124	15,084	18,061	22,398	31,653	32,075
158	Hampton U.	7,777	6,801	7,168	8,994	8,377	10,058	18,417	31,443
159	U. AR main campus	15,772	16,156	15,851	20,778	23,172	27,588	27,071	31,088

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
160	NJ Institute of Technology	21,287	21,127	21,127	17,381	23,274	27,550	30,535	30,995
161	Northeastern U.	16,321	21,454	22,776	26,916	23,532	24,295	26,895	30,659
162	TX A&M U. System Health Science Ctr.	NA	NA	NA	14,321	18,384	22,417	26,729	30,283
163	San Diego State U.	20,237	19,721	19,724	22,802	23,621	25,223	28,084	30,092
164	Loyola U. Chicago	14,771	17,685	17,588	20,695	26,474	27,678	28,107	29,150
165	Jackson State U.	3,960	5,326	7,925	10,690	22,750	21,721	25,607	28,806
166	U. PR Medical Sciences Campus	12,978	11,843	13,971	16,657	19,433	23,931	25,845	28,063
167	U. NV, Las Vegas	9,221	9,713	10,248	13,815	15,681	22,367	32,511	28,013
168	Loma Linda U.	8,061	7,834	12,217	18,811	19,462 i	20,114	22,675	26,631
169	Desert Research Institute	13,900	15,400	16,552	19,923	22,018	22,760	23,265	26,235
170	Meharry Medical C.	11,004 e	11,004 e	9,192	9,192 e	14,822 i	20,453	24,195	26,159
171	C. of William and Mary all campuses	10,911	11,097	11,892	13,031	15,288	18,007	21,992	26,049
172	GA State U.	7,544	11,284	14,310	12,090	13,575	18,967	22,218	25,845
173	U. AL, The	13,118	14,909	17,601	19,486	22,183	26,900	26,241	25,329
174	NY Medical C.	11,866	13,639	14,029	17,975	18,344	19,318	23,387	25,103
175	FL A&M U.	22,547	15,726	20,693	16,278	22,477	21,592	18,273	24,994
176	U. MD Biotechnology Institute	8,719	11,789	13,911	11,157	11,053	10,603	17,922	24,059
177	Morehouse School of Medicine	12,099	12,461	12,948	15,419	18,127	21,919	24,382	23,331
178	U. WY	15,003	17,806	19,109	16,556	20,017	20,017 e	23,186	23,186 e
179	TX Tech U.	14,901	17,481	20,242	21,480	22,967	28,202	31,776	23,181
180	Boston C.	11,207	12,778	14,492	16,673	20,123	22,827	22,907	22,907 e
181	SUNY Upstate Medical U.	7,188	6,487	7,889	8,461	8,815	13,404	16,652	22,650
182	Old Dominion U.	10,736	12,346	13,706	14,908	15,280	17,170	18,882	21,377
183	OH U. all campuses	9,790	10,323	10,544	11,695	12,898	17,677	20,406	20,831
184	Wright State U. all campuses	10,001	10,832	12,365	12,543	15,417	16,070	18,733	20,599
185	San Jose State U.	11,825 i	11,825 e	11,825 e	11,825 e	14,301	15,777	18,935	20,363
186	U. MO-Rolla	8,080	7,934	8,731	9,804	11,929	15,749	18,142	20,218
187	CUNY City C.	15,221	14,437	12,393	13,059	13,022	13,319	13,456	19,711
188	Stevens Institute of Technology	6,174	6,667	7,084	8,785	8,094	8,094 e	13,783 i	19,473
189	Lehigh U.	14,882	13,019	13,161	12,726	13,961	13,519	16,215	19,400
190	Catholic U. America, The	6,910	7,161	11,064	7,680	13,308	17,925	18,864	18,927
191	CUNY Hunter C.	6,895	6,414	7,526	8,650	10,922	14,573	17,047	18,836
192	MI Technological U.	12,941	13,938	16,107	16,650	17,620	17,973	17,667	18,735
193	U. South AL	9,709	9,451	9,451 e	8,276	8,276 e	15,922	17,638	17,832
194	Eastern VA Medical School	10,618	9,449	11,354	12,114	11,389	13,077	15,431	17,530
195	Brigham Young U. all campuses	9,223 i	9,694	11,414	10,378	11,659	12,900	16,564	17,129
196	Marshall U.	180	25	66	5,618	5,980	9,502	12,802	17,104
197	U. TX El Paso	12,873	10,758	18,292	16,416	16,167	16,457	18,116	16,900
198	U. MA Lowell	11,560	12,259	10,354	9,905	11,196	14,932	15,821	16,655
199	CO School of Mines	9,330	8,694	10,704	11,995	12,314	13,230	16,314	16,550

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
200	U. LA Lafayette	4,699	5,834	9,430	12,164	12,130	12,925	14,455	15,850
201	U.S. Air Force Academy	3,616 i	4,033	3,699	4,505	5,009	8,163	12,599	15,739
202	U. TX Dallas	6,719	8,115	7,700	7,049	7,049 e	11,624	14,530	15,733
203	U. MO-Kansas City	5,380	6,199	7,206	7,490	8,176	10,795	14,232	15,696
204	Southern IL U. Carbondale	8,632	7,801	7,660	10,130	10,868	10,789	12,078	15,557
205	SD State U.	5,650	5,812	6,086	7,448	8,456	9,115	11,441	15,127
206	IL Institute of Technology	11,668	9,946	9,777	10,926	10,917	11,277	13,900	14,903
207	FL Atlantic U.	7,653	9,582	11,036	12,359	14,099	15,566	17,517	14,662
208	Medical C. OH	9,766	8,107	9,219	9,944	11,362	12,006	14,146	14,591
209	U. Memphis, The	5,413	5,849	6,364	11,177	11,012	14,072	14,985	14,078
210	NM Institute of Mining and Technology	10,496	8,959	10,719	8,652	13,255	18,864	15,434	13,853
211	U. MD Ctr. for Environmental Science	6,240	7,440	8,116	10,805	12,105	13,080	12,654	13,824
212	U. NC Charlotte	3,779 i	4,150	4,780	5,380	5,145	5,850	7,981	13,816
213	Creighton U.	5,129	4,096	4,929	5,541	7,275	6,594	9,413	13,745
214	U. WI Milwaukee	8,156	8,936	9,190	8,425	11,089	11,461	13,704	13,670
215	NC Agricultural and Technical State U.	13,362	12,924	12,454	11,187	11,937	11,953	12,226	13,487
216	Portland State U.	5,960	6,881	9,313	11,217	11,341	11,914	13,276	13,276 e
217	U. North TX Health Science Ctr. Ft. Worth	5,273	5,645	5,370	5,799	6,562	7,770	9,927	13,259
218	U. Toledo	2,937	5,366	5,682	6,312	6,701	8,996	10,928	13,229
219	Clark Atlanta U.	25,943	24,079	12,116	16,170	14,354	15,325	12,367	13,075
220	U. SD	2,239	2,669	3,373	2,084	3,534	5,830	8,308	12,849
221	Northern AZ U.	8,176	6,812	7,111	7,842	9,616	10,873	10,900	12,754
222	Rochester Institute of Technology	2,523	2,339 e	2,690	2,664	5,612	7,868	11,630	12,415
223	AL A&M U.	8,423 e	10,518	8,558	7,056	8,883 i	10,710	30,343	12,023
224	Albany Medical C.	5,632	6,545	7,437	7,691	8,562	8,901	9,677	11,849
225	Wichita State U.	2,602	2,646	3,260	5,228	5,726	6,687	10,619	11,796
226	U. TX San Antonio	11,553	5,112	5,463	7,441	8,012	7,111	9,982	11,644
227	U. of the VI	2,428 e	2,428 e	1,957	1,957 e	6,288 i	10,620	10,772	11,598
228	TN State U.	7,569	7,978	8,522	8,873	10,210	11,218	10,280	11,277
229	U. Tulsa	4,190	4,002	5,272	5,498	7,341	6,806	8,439	11,240
230	U. TX Arlington	26,829	11,294	6,089	5,106	9,413	7,848	7,884	10,498
231	SUNY Binghamton	6,218	6,205	5,761	6,319	6,392	8,959	8,981	10,414
232	U. Akron all campuses	5,146	4,042	7,140	7,081	8,672	9,537	9,348	10,284
233	U. NC Wilmington	4,212 i	4,098	4,431	5,336	7,242	9,950	8,957	9,951
234	U. Denver	7,888	9,385	9,081	7,439	9,248	8,386	8,268	9,839
235	Mercer U. all campuses	10,741	12,043	12,657	11,350	9,076	8,607	8,018	9,613
236	East Carolina U.	3,904	4,027	4,832	4,388	5,188	6,030	7,565	9,399
237	U. GU	2,141 i	2,206	2,242	3,165	3,355	4,183	5,818	9,205
238	U. MA Dartmouth	2,884	3,731	3,983	3,228	4,928	7,142	8,718	9,199
239	Ponce School of Medicine	2,607	2,783 i	2,960	3,257	3,736	3,720	6,270	9,179

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
240	Kent State U. all campuses	7,577	8,251	8,212	7,736	8,158	9,427	9,278	9,093
241	Tuskegee U.	29,930	26,894	6,942	6,694	7,259	7,703	7,660	8,904
242	Universidad Central del Caribe	2,072	3,208 i	4,345	5,347	6,622	6,470	7,183	8,498
243	Worcester Polytechnic Institute	7,315	5,230	4,292	4,219	4,506	5,013	5,966	8,489
244	ID State U.	1,128	5,200	1,258	3,723	3,837	4,738	6,746	8,416
245	SD School of Mines and Technology	2,990	3,221	3,300	4,127	4,417	6,950	8,222	8,366
246	CA State U. Long Beach	5,013 e	8,471 i	11,929	12,964	2,910	4,944	12,126	8,351
247	Western MI U.	3,618	4,023	4,165	4,584	6,192	9,913	12,131	8,313
248	CA State U. Los Angeles	1,359 i	912 i	463	8,344	5,365	7,728	6,882	8,094
249	U. PR Rio Piedras Campus	4,275	5,460	5,654	5,620	6,013	4,971	6,760	8,093
250	Prairie View A&M U.	9,315	9,612	8,675	7,679	7,094	7,712	7,886	7,965
251	Rosalind Franklin U. of Medicine and Science	5,022	5,022 e	4,860	5,117	6,256	5,638	6,783	7,843
252	Boise State U.	1,932	1,892	2,595	2,151	3,962	4,173	6,321	7,642
253	Alcorn State U.	4,242 i	5,119	5,223	8,034	7,370	5,809	7,582	7,622
254	TX Tech U. Health Science Ctr.	NA	NA	NA	NA	NA	NA	NA	7,604
255	U. PR Mayaguez Campus	21,052	21,903	23,784	11,837	9,015	8,865	9,596	7,539
256	Morgan State U.	3,825 i	3,960	1,066	4,371	2,390	1,674	6,232	7,227
257	Northern IL U.	3,460	3,344	3,727	3,603	4,264	4,980	6,892	6,824
258	Southern Methodist U.	4,543	4,836	6,387	6,302	5,587	6,026	5,940	6,752
259	U. AK Anchorage all campuses	0 i	0 e	2,537	2,537 e	3,390 i	4,244 e	5,316	6,721
260	CA State U. Northridge	1,374 i	1,309	2,324	3,182	3,182 e	6,786	6,460	6,521
261	Clarkson U.	3,368	3,010	3,694	3,837	4,286	4,286 e	4,833	6,434
262	Cleveland State U.	3,588 e	3,696 e	3,655 e	3,318	3,986	4,649	3,611	6,380
263	Teachers C. Columbia U.	560	2,900	4,119	5,613	5,617	5,939	5,572	6,256
264	Norfolk State U.	1,388	2,442	2,970	3,273	3,952	4,902	4,404	6,054
265	Marquette U.	2,421	3,510	3,416	3,085	3,309	3,565	4,409	6,046
266	CUNY Queens C.	1,637	2,323	1,884	2,604	3,484	5,516	5,062	5,820
267	SUNY C. of Environmental Science and Forestry	2,690	2,715	3,874	4,332	4,355	4,630	5,177	5,726 i
268	TX A&M U. Corpus Christi	NA	NA	NA	1,363	2,357	3,127	4,581	5,685
269	VA State U.	3,453	2,792	2,061	3,602	4,246	6,895	6,964	5,655
270	FL Institute of Technology	2,292	2,152	2,735	2,980	2,614	3,646	5,204	5,575
271	Oakland U.	3,303	3,218	3,033	3,033 e	5,318	4,903	4,470	5,559
272	U. North TX	3,703	2,621	2,617	3,618	5,401	6,015	6,320	5,499
273	U. MA Boston	3,075	3,160	2,951	3,378	2,546	4,837	5,579	5,412
274	Wesleyan U.	3,731	3,570	3,640	4,058	3,893	3,734	4,424	5,388
275	U. MD Eastern Shore	2,187	2,265	2,508	3,895	5,626	5,718	4,862	5,378 i
276	U.S. Naval Academy	3,156 i	2,534	2,234	2,770	3,140	2,324	3,169	5,341
277	U. West FL	2,356 i	2,806	3,624	4,521	4,785	5,315	9,105	5,332
278	Bowling Green State U. all campuses	2,436	2,029	1,847	1,847 e	2,395	2,829	4,378	5,318
279	Xavier U. LA	5,473	5,355	3,240	3,174	4,666	6,019	5,036	5,226

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
280	Tarleton State U.	1,177	1,483	1,623	1,426	4,094	5,216	5,698	5,208
281	Embry-Riddle Aeronautical U.	1,470 i	1,432	1,432 e	1,551 e	6,987	4,174	3,323	5,179
282	Miami U. all campuses	2,876	2,687	3,302	2,674	3,324	4,021	4,312	5,132
283	CA State U. San Bernardino	228 i	258	697	880	676	1,399	4,858	5,127
284	Fisk U.	1,969 e	2,909	2,846	2,652	2,577	3,030	3,000	5,000
285	LA Tech U.	1,840 i	2,287	2,287 e	2,635	2,242	3,487	6,113	4,718
286	Villanova U.	1,471	2,470 i	3,470	4,035	4,293 i	4,551 e	4,229 i	4,669 i
287	Air Force Institute of Technology	4,212	2,228	1,540	5,371	1,671	2,609	6,418	4,664
288	Polytechnic U.	3,485	2,843	4,595	8,200	4,063	4,918	4,789 i	4,660
289	U. MO-St. Louis	3,650	3,975	4,841	4,523	4,321	4,755	4,978	4,618
290	Clark U.	2,134	1,660	2,651	1,652	2,605	3,418	4,475	4,475 e
291	East TN State U.	714	1,368	1,400	2,768	3,572	3,908	4,642	4,412
292	Western KY U.	2,606 i	3,130	2,287	2,711	3,294	3,493	3,125	4,400
293	Rowan U.	NA	NA	NA	NA	NA	NA	3,755	4,355
294	Humboldt State U.	2,003 i	2,185	2,629	2,629 e	2,945 i	3,354 i	3,553 i	4,316 i
295	U. HI Hilo	NA	NA	NA	NA	NA	8,499	5,082	4,217
296	CA State U. Dominguez Hills	2,794 i	3,362 i	3,932	909	2,578	2,783	3,471	4,179
297	CA State Polytechnic U. Pomona	1,018 i	1,043 i	1,069	1,703	2,498	2,806	3,922	4,059
298	MT Tech of the U. MT	2,521 i	2,767 i	3,014	2,744	2,617	2,977	4,488	4,059
299	DE State U.	1,833	2,734	2,055	3,052	2,222	2,819	3,636	4,030 i
300	CA State U. Fullerton	1,028 i	1,028 e	1,879 i	2,730 i	3,581 i	4,434	3,140	3,979
301	TX A&M U. Kingsville	1,703 i	1,874	1,771	2,179	1,828	1,956	2,766	3,832
302	CA State U. Fresno	1,382 i	1,565 i	1,749 e	1,823	585	1,392	2,579	3,750
303	TX Southern U.	3,707	2,504	2,292	1,844	1,908	3,910	2,925	3,749
304	Wellesley C.	2,304	2,304 e	2,684 i	3,064 i	3,446	3,446 e	3,996	3,708
305	Southern U. and A&M C. all campuses	7,774	6,983	6,689	6,418	5,709 i	5,000 i	4,291 i	3,581
306	Langston U.	1,828	2,031	2,340	2,553	2,863	3,975	4,332	3,578
307	DePaul U.	926	822	571	478	1,142	1,971	2,747	3,539
308	TX State U. San Marcos	1,323 i	1,116	1,871	3,519	3,854	4,144	3,873	3,536
309	U. DC	1,756 e	1,898	1,829	1,629	2,008	2,963	2,769	3,492
310	Duquesne U.	711	867	1,531	1,902	1,969	2,232	2,742	3,479
311	U. AR Pine Bluff	2,838	2,911	2,911 e	2,754 i	2,596	3,016	3,470	3,455
312	Ball State U.	1,329	959	835	873	1,177	1,590	1,944	3,441
313	CUNY Graduate Ctr.	3,445	3,573	515	532	1,489	832	1,724	3,324
314	C. Charleston	1,481 i	1,724	1,553	1,607	1,988	2,364	2,678	3,321
315	KY State U.	2,139	703	703 e	2,179 i	3,655	6,036	6,395	3,298
316	U. NC Greensboro	1,581	1,829	1,535	1,535 e	2,803	3,340	2,704	3,267
317	U. PR Humacao U. C.	NA	NA	NA	NA	NA	NA	NA	3,201
318	Sam Houston State U.	4,974	2,527	3,225	2,128	1,802	2,386	2,726 i	3,015 i
319	Northeastern OH Universities C. of Medicine	1,530	1,430	1,693	2,002	2,072	1,871	1,708	2,964

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
320	TX Christian U.	2,541	2,493	3,257	2,441	2,824	2,492	2,716	2,961
321	CUNY Herbert H. Lehman C.	927 e	1,071 i	1,216	1,444	2,048	2,816	3,725	2,936
322	James Madison U.	669 i	722	763	712	890	1,372	1,607	2,843
323	Central MI U.	107 i	0	142	142 e	291	190	318	2,707
324	IL State U.	2,420	2,468 e	2,057	2,108	1,638	1,574	1,928	2,650
325	CA State Polytechnic U. San Luis Obispo	3,301 i	3,948	7,673	7,605	6,153	5,968	3,820	2,616
326	St. Joseph's U.	395 i	462	185	797	1,130	2,069	1,771	2,612
327	U. AR Little Rock	NA	NA	NA	3,400 e	2,088	2,088 e	7,757	2,586
328	U. TX-Pan American	1,176 i	1,233	1,068	1,135	1,288	1,387	1,887	2,578
329	TN Technological U.	1,205	1,065	1,222	1,452	1,124	1,695	1,539	2,564
330	CUNY Brooklyn C.	1,492	1,574 e	2,228	2,866	2,776	2,538	2,798	2,559
331	Ft. Valley State U.	2,471	2,359	2,318	2,417	2,417 e	2,985	2,798	2,558
332	CA State U. Monterey Bay	NA	NA	NA	NA	1,285	1,285 e	2,091	2,548
333	Albany State U.	675 e	1,019	1,019 e	840	740	1,640	2,056	2,547
334	Maharishi U. of Management	0	0	0	1,213	1,213	2,618	2,541	2,541 e
335	Spelman C.	1,282	1,700	1,832	1,978	3,262	2,968	2,186	2,419
336	SC State U.	1,948	1,968	1,978	1,988	1,988 e	1,998	2,198	2,418
337	Eastern MI U.	732 i	813 i	895	1,213	1,745	777	1,849	2,375
338	New School, The	814	773	1,069	873	1,083	1,083 e	741	2,330
339	U. Central AR	NA	NA	NA	820	1,189	1,140	1,790	2,265
340	West TX A&M U.	93 i	114	93	140	2,681	3,245	2,595	2,205
341	Central WA U.	934 i	1,055 i	1,179	1,426	1,337	1,468	2,246	2,200
342	Savannah State U.	316	331 i	513	905	2,181	2,206	2,150 i	2,094
343	Winston-Salem State U.	1,874	1,898	1,619	3,216	4,853	2,022	2,022 e	2,073 e
344	New England C. of Optometry	715	1,020	1,118	950	1,179	1,792	1,900	1,958
345	Western WA U.	1,782 i	1,954	2,004	1,548	1,300	1,651	2,271	1,950
346	Christopher Newport U.	NA	NA	NA	NA	NA	NA	1,945	1,904
347	Nova Southeastern U.	1,003	1,500	2,637	2,060	1,750	1,959	1,963	1,884
348	Bowie State U.	2,672	4,403	2,360	2,360 e	2,022	2,200	2,206	1,883
349	Southwest MO State U.	539 i	596	484	484 e	443	79	371	1,863
350	SUNY C. of Optometry	268	386	755	698	993	1,032	2,461	1,856
351	West Chester U. PA	148	462	547	697	697 e	918	505	1,833
352	NM Highlands U.	2,446 i	2,547 i	2,648	3,747	1,849	1,953	2,264	1,810
353	Ithaca C.	882 i	1,075	1,607	2,131	1,653	2,060	1,792	1,807
354	Mt. Holyoke C.	696 i	733	975	1,135	1,004	1,449	1,639	1,800
355	Gallaudet U.	2,284 i	2,119	2,264	1,682	1,768	1,880	1,959	1,747
356	GA Southern U.	814 i	823 i	833	944	841	882	2,074	1,746
357	U. Redlands	NA	NA	NA	NA	NA	2,674	1,810	1,711
358	U. of the Pacific	1,755	254	844	546	489	730	1,160	1,700
359	U. New Haven	188 i	104 i	19	19 e	1,492	1,492 e	1,386 i	1,688 i

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
360	AL State U.	787	1,133	1,190	1,190 e	1,249 e	1,249	1,449	1,683
361	CUNY York C.	1,271	1,480	1,372	1,317	923	1,650	1,796	1,669
362	Middle TN State U.	107	127	319	478	296	211	1,513	1,651
363	CA State U. Chico	1,090	1,497	850	450	961	617	1,356	1,647 i
364	CA State U. Hayward	856 i	1,070 i	1,284 i	1,498 i	1,712 i	1,930	1,088	1,639
365	Western Carolina U.	218	277	300	354	362	280	218	1,633
366	CUNY C. Staten Island	559	739	595	858	1,128	1,315	1,723	1,624
367	Morehouse C.	591 e	591 e	1,843	1,843 e	1,843 i	1,843 i	1,517 i	1,619 i
368	Occidental C.	1,513 i	1,513 e	297	545	812	1,303	1,319	1,606 i
369	Smith C.	730	634	240	774	812	515	866	1,602
370	Hope C.	756 i	815 i	879	602	692	853	635	1,576
371	Carleton C.	376 i	386 i	398	760	693	959	1,417	1,575
372	Lincoln U. (Jefferson City, MO)	2,584	2,635 i	2,686	2,502	2,236	2,513	2,149	1,552
373	Grambling State U.	2,630	1,936	1,936 e	2,200	2,200 e	1,977	1,880	1,522
374	Alfred U. all campuses	445	1,348	1,491	1,227	1,166	946	674	1,494
375	Lamar U.	1,169	2,307	2,914	2,330	2,217	2,080	1,998	1,494
376	U. North FL	NA	NA	NA	NA	731	1,397	2,915	1,493
377	Harvey Mudd C.	804 i	917 i	1,032	1,032 e	1,156 i	1,316 i	1,223 i	1,489 i
378	American U.	2,672	3,163	2,735	1,886	1,999	3,467	2,141	1,456
379	Swarthmore C.	511	586	586 e	586 e	691	1,107	915	1,449
380	Indiana U. PA all campuses	491	491 e	354	544	453	476	504	1,446
381	PA C. of Optometry	351 i	319 i	283	525	695	928	1,209	1,407
382	WV State C.	196	0	0	0 e	0 e	467 i	934 i	1,403
383	Youngstown State U.	422 i	508	144	191	425	800	821	1,385
384	U. Scranton	2,200 i	2,502 i	2,804 i	3,106 i	3,408 i	3,715	2,439	1,374
385	Baylor U.	615	522	522 e	353	516	830	812	1,372
386	Barnard C.	685 e	1,038	1,008	1,198	1,269	1,021	1,369	1,369 e
387	SUNY C. Oswego	459	480	478	587	578	901	1,120	1,342
388	U. Northern CO	702	609 e	526	982	994	840	1,581	1,328
389	OR Institute of Technology	NA	NA	NA	NA	NA	727	953	1,322
390	St. John's U. (Jamaica, NY)	1,230	916	1,177	938	938 e	1,060 i	1,188 i	1,312 i
391	U. WI Green Bay	238	238	240	267	328	601	824	1,293
392	U. LA Monroe	2,308	1,466	2,824	2,824 e	2,436 i	2,048 i	1,660 i	1,271
393	Northeastern State U.	NA	NA	NA	NA	NA	919	1,038	1,261 i
394	SUNY C. Old Westbury	743	767	485	1,067	1,067 e	1,193	1,182	1,258
395	Williams C.	1,010 i	1,010 e	1,345	1,345 e	1,367 i	1,389	1,454	1,258
396	Southeastern LA U.	389 i	467 i	550	629	342	525	556	1,257
397	Seton Hall U.	1,243 e	1,243	1,116	996	826	692	635	1,233
398	Chicago State U.	738	696	1,254	1,248	1,356	1,236	1,107	1,227 i
399	Middlebury C.	643 i	664 i	688	1,371	1,285	1,150	1,150 e	1,227 i

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
400	U. WI La Crosse	510	562	686	1,001	871	1,196	967	1,221
401	Furman U.	533	315	208	524	487	1,003	852	1,197
402	Lafayette C.	291 i	295	354	331	353	519	1,253	1,187
403	Murray State U.	422	554	388	629	778	739	1,075	1,185
404	Hampshire C.	1,155	1,264	662	872	998	1,095	1,112	1,181
405	TX Woman's U.	1,304	1,485	1,306	1,440	1,185	1,321	1,494	1,175
406	Bowdoin C.	137	213	154	228	140	658	1,070	1,151
407	NC Central U.	795 i	786 i	777 e	761 i	853 i	971 i	1,029 i	1,141 i
408	Morehead State U.	451 i	550 i	649 i	748 i	847 i	946 i	1,046	1,137
409	Amherst C.	899 i	861	726	999	849	955	955 e	1,126
410	NY Institute of Technology all campuses	28	38	92	114	166	84	597 i	1,110
411	Haverford C.	933	820	937	1,000	989	874	931	1,066
412	Bryn Mawr C.	871	910	764	978	855	751	880	1,065
413	Shaw U.	122	110	100	100 e	411 i	722 i	1,033	1,033
414	Elizabeth City State U.	1,146	575	1,040	1,558	1,248	1,058	1,103	1,032
415	Benedict C.	634 i	800 i	966 i	1,143	1,014	966	1,002	1,020
416	St. Cloud State U.	827 i	987	987 e	987 e	892 i	797 i	700	972
417	Long Island U. all campuses	700	1,197	1,116	1,044	919	1,162	1,470	962
418	Macalester C.	417 i	490 i	563 i	636 i	713	1,057	755	959
419	Bucknell U.	547 i	611 i	679	754	1,106	1,240	1,285	955
420	Philadelphia C. of Osteopathic Medicine	95	57	99	392	395	387	358	951
421	Claremont Graduate U.	259	123	384	798	1,024	621	859	945
422	Pomona C.	395 i	376	654	678	679	917	1,219	940
423	Black Hills State U.	NA	NA	NA	NA	NA	NA	NA	934
424	Fordham U.	1,472	769	1,725	2,101	1,980	1,990	1,823	929
425	Hamilton C. (Clinton, NY)	359 i	359 e	414 i	469	382	1,035	849	901
426	U. Richmond	588	781	812	849	815	1,347	807	900
427	SUNY C. Plattsburgh	692	802	432	610	712	760	1,087	896
428	Pacific U.	0	0	0	20	157	157	823	885 i
429	FL Gulf Coast U.	NA	NA	NA	NA	NA	NA	NA	884
430	U. WI Stevens Point	413	306	257	193	270	639	725	884
431	SUNY C. Buffalo	1,207	1,054	1,167	577	338	583	1,053	883
432	U. WI Oshkosh	199	268	307	248	271	356	523	879
433	U.S. Coast Guard Academy	302 i	300	300	405	466	1,128	1,166	866
434	Midwestern U. (Chicago, IL)	756	491	443	467	542	589	529	857
435	U. WI Stout	774	986	782	880	816	1,003	1,156	838
436	Southern IL U. Edwardsville	261 i	244	147	200	311	1,413	1,340	829
437	Franklin & Marshall C.	684 i	723	348	604	599	441	529	815
438	Trinity U.	750 i	723 i	692	746	746 e	250	636	805
439	Coastal Carolina U.	NA	NA	NA	1,051	736	787	776	785

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
440	Juniata C.	95 i	113 i	135	105	107 e	101	363	778
441	Colgate U.	NA	NA	NA	917	708	586	646	777
442	IN State U. all campuses	669	592	368	251	269	284	573	747
443	Pittsburg State U.	69	229	94	247	514	963	781	744
444	U. WI Superior	169	96	97	33	79	552	720	743
445	Stephen F. Austin State U.	2,285	1,125	776	521	959	1,054	759	740
446	Rose-Hulman Institute of Technology	540 i	642 i	748	420	1,457	744	892	726
447	Bethune-Cookman C.	472	566	583	586	926	794	741	723
448	U. WI Eau Claire	325	395	338	219	288	580	827	721
449	CO State U. Pueblo	616	538	642	370	707	541	580	714
450	Dickinson C.	NA	1,168	653	390	806	685	624	708
451	U. San Francisco	296 i	249 i	200 e	400	400 e	431 i	462	706
452	Reed C.	329 i	315 i	300 e	391	277	583	472	702
453	U. Hartford	27	124	299	629	578	537	667	697
454	U. AK Southeast all campuses	300 i	374 i	448 i	522 i	596 i	673 e	802	691
455	Trinity C. (Hartford, CT)	448 i	487 i	529	326	326 e	181	426	686
456	Bates C.	306	411	576	463	819	977	964	679
457	CA State U. Bakersfield	159 i	126 i	92 e	459	459 e	523 i	554 i	673 i
458	Bradley U.	519 i	632	218	146	286	953	973	671
459	Union C. (Schenectady, NY)	343	126	608	553	587	1,217	471	664
460	Milwaukee School of Engineering	170 i	211	269	306	420	651	558	662
461	Drake U.	175 i	171 i	167	198	163	692	692 e	647
462	U. Northern IA	588	496	344	378	380	1,063	898	646
463	Pace U. all campuses	0	555	435	236	295	362	362 e	644
464	State U. West GA	531 i	654 i	777 i	900	634	400	556	623
465	Hendrix C.	239 i	292 i	345 i	398 i	451 i	504 i	557 i	615
466	SUNY C. Geneseo	218	229	183	389	350	481	847	588
467	C. NJ, The	NA	NA	NA	NA	NA	456	483 i	587 i
468	Southern OR U.	241	230	205	253	154	542	544	587
469	Hartwick C.	100 i	108 i	116 i	124 i	132 i	140 i	151	581
470	SUNY C. Brockport	264	349	308	344	344 e	478 i	613	574
471	AR State U. main campus	125 i	152	224	267	321	312	385	569
472	Southern U. New Orleans	NA	NA	NA	60 e	652	902	552	556
473	CUNY Medgar Evers C.	NA	NA	NA	258	714	970	652	555
474	U. WI Parkside	132	119	108	212	352	563	427	548
475	Whitman C.	84 i	58	181	283	322	211	568	544
476	C. of the Holy Cross	265	251	151	142	446	329	272	538
477	Gustavus Adolphus C.	145 i	160 i	179	85	197 i	309 i	421 i	533
478	Calvin C.	290 i	297 i	306	270	514	338	522	530
479	Lincoln U. (Lincoln University, PA)	949	1,364	972	709	620	718	704	526

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
480	Loyola Marymount U.	NA	NA	NA	NA	NA	NA	538	508
481	Augustana C. (Rock Island, IL)	42 i	42 e	55 i	68 i	81 i	94 i	108	504
482	Hofstra U.	319	319	659	649	402	402 e	450 i	497 i
483	Augsburg C.	430 i	368 i	303	337	497	655	734	493
484	MS Valley State U.	563	350	495	834	1,316	1,030	636	493
485	Montclair State U.	109 i	120 i	131 i	146	465	383	406 i	493 i
486	U. IL Springfield	NA	NA	NA	182	126	200	362	493
487	Mt. St. Mary's C. (Los Angeles, CA)	NA	NA	NA	NA	NA	NA	NA	492
488	Allegheny C.	254 i	253 i	252	88	412	562	368	476
489	Northern KY U.	132 i	104 i	71	41	34 i	26	240	474
490	McNeese State U.	25	256	611	512	290	409	430	451
491	U. Houston-Downtown	860 i	850 i	838	660	660 e	596	373	449
492	Chapman U.	40 i	50 i	60 i	73	77	442	340	439
493	Rider U.	NA	NA	NA	225	189	218	185	428
494	St. Mary's U. (San Antonio, TX)	56 i	0	0	62	193	152	199	414
495	Vassar C.	517 i	517 e	419 i	321	321 e	366 i	340 i	414 i
496	U. of Health Sciences	162	305	305 e	0	380	513	429	407
497	Valparaiso U.	200	259	500	275	308	262	267	404
498	U. San Diego	157	334	282	422	185	1,425	622	399
499	Oakwood C.	716	690	447	447 e	447 i	447 i	368 i	393 i
500	Loyola C.	833	1,191	1,397	1,513	675	770	330	392
501	Colby C.	90 i	93	121	83	146	306	192	373
502	U. Puget Sound	228 i	247 i	266 i	285 i	304 i	323 i	342 i	370
503	Western IL U.	8,804	10,867	6,595	6,112	5,501	4,982	379	369
504	Roanoke C.	NA	NA	NA	NA	NA	NA	388	364
505	Skidmore C.	56 i	74	61	67	68	227	384	364
506	Tougaloo C.	929	657	767	473	407	407 i	335 i	358 i
507	Evergreen State C.	428 i	463 i	498 i	537	487	441	511	354
508	Roger Williams U. Bristol	NA	NA	NA	NA	NA	NA	NA	352
509	Dillard U.	164	164 e	164	182	199	393	441	351
510	St. Olaf C.	339 i	379 i	424	530	403	683	575	347
511	Kirkville C. of Osteopathic Medicine	381	329	311	542	731	895	494	333
512	Southeastern OK State U.	NA	NA	NA	NA	NA	NA	122	320
513	Eckerd C.	NA	NA	NA	NA	NA	NA	NA	317 i
514	Eastern IL U.	NA	NA	NA	0 e	NA	NA	NA	315 i
515	Central State U.	1,153 i	1,144	1,144 e	283 e	283 i	283 i	304 i	312 i
516	Southern CT State U.	156 i	128 i	100	215	215 e	144	1,485	312
517	Western U. of Health Sciences	40	253	253 e	127 i	0	214	129	312
518	Kennesaw State U.	141	132	142	249	298	221	300	311
519	Towson U.	170	268	1,028	846	694	1,037	904	302

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
520	Morris Brown C.	525	525 e	321 i	116	116 e	343	282 i	301 i
521	Kettering U.	176 i	192	89	270	270	638	562	298
522	Oberlin C.	513 i	570 i	627 i	691	285	406	424	291
523	Eastern WA U.	804 i	804 e	1,244	1,366	1,668	986	365	288
524	C. Wooster	153	244	318	276	249	284	342	281 e
525	Augustana C. (Sioux Falls, SD)	277 i	276 i	275 i	274 i	273 i	265	224	273
526	Appalachian State U.	244	247	219	128	280	543	491	272
527	Manhattan C.	424 i	327	70	293	293 e	257	257 e	271 i
528	MA C. of Pharmacy and Health Sciences	0	0	0 e	64 i	129	77	562	270
529	Fairfield U.	161 i	175 i	189 i	203	160	106	246	267
530	U. NC Asheville	238 i	226 i	213	227	386	412	271	265
531	U. WI Whitewater	171	145	106	223	255	210	204	264
532	Sul Ross State U.	148	156	74	228	95	77	96	261
533	NJ City U.	NA	NA	NA	NA	NA	184	326	260
534	Claffin U.	1,074	1,028	250	250 e	1,958	203	293	255
535	Kalamazoo C.	144 i	159 i	174 i	189 i	204 i	219 i	234 i	254
536	Andrews U.	106	117	117 e	87	145	123	82	249
537	SUNY C. Cortland	235	26	30	233	276	316	335	245
538	Central CT State U.	104 i	113 i	122 i	137	138	102	282	239
539	U. Houston-Clear Lake	2,095 i	1,266	5,387	6,383	10,629	7,460	514	238
540	Albany C. of Pharmacy	NA	NA	NA	839	806	572	377	235
541	Sonoma State U.	NA	145	16	33	597	161	213	234
542	CUNY Baruch C.	15	83 i	151	87	87 e	347	213	232
543	Jarvis Christian C.	83	55	56	55	55 e	10	100	232
544	Lake Forest C.	20 i	28	74	200	220	126	132	228
545	Grinnell C.	117 i	117 e	210	774	168	385	325	225
546	Denison U.	192 i	205 i	221	238	121	183	381	224
547	Pitzer C.	164	197	246	299	261	227	266	223
548	Grand Valley State U.	42	92	309	368	392	405	278	221
549	Lawrence Technological U.	49 i	51	57	121	194	191	159	219
550	OH Wesleyan U.	340	106	185	185 e	194 i	203	203 e	217 i
551	Providence C.	20	17	29	29 e	101 i	173	173 e	214
552	Iona C.	145	149 i	153 i	157 i	161 i	167	222	213
553	Simmons C.	194 i	155 i	112	74	30	118	302	208
554	U. of the Sciences Philadelphia	269	162	162 e	222	200	311	119	207
555	U. CA Office of the President	NA	NA	NA	NA	NA	NA	NA	203
556	U. Southern ME	268 i	236	123	123 e	138 i	157 i	166 i	202 i
557	DePauw U.	NA	NA	NA	NA	NA	NA	NA	199 i
558	New C. FL	NA	NA	NA	NA	NA	55	130	199
559	John Carroll U.	824 i	947 i	1,072	1,072 e	232	489	334	197

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
560	U. Portland	127	55	105	235	291	285	133	183
561	CUNY John Jay C. of Criminal Justice	565	912	951	779	733	201	168	177
562	Eastern KY U.	5,059 i	6,229 i	7,403	192	235	225	297	175
563	Wiley C.	NA	0	0	0	0	0	263	169
564	Wabash C.	NA	NA	NA	NA	NA	NA	NA	166
565	Fayetteville State U.	139	378	265	507	298	311	546	161
566	U. Detroit Mercy	877	494	310	314	219	369	158	158 e
567	Bluefield State C.	NA	0	0	0	0	0	36	156
568	U. of St. Thomas (St. Paul, MN)	148 i	158	19	54 i	89	160	151	154
569	St. Mary's C. MD	NA	NA	NA	378	233	262	318	151
570	Ft. Lewis C.	323	149	157	139	231	221	191	150
571	AR Tech U.	51 i	55	137	92	130	130 e	140 i	144 i
572	Abilene Christian U.	176 i	162	114	165	162	173	172	135
573	Lewis and Clark C.	271 i	309	394	392	206	272	394	129
574	SUNY Fredonia	100	93	52	120	121	104	172	116
575	MN State U. Mankato	335 i	372	164	175	165	181	95	115 i
576	U. WI River Falls	71	69	69	24	81	89	51	106
577	Wilkes U.	NA	NA	NA	NA	NA	79	221	105
578	SUNY Purchase C.	211	160	188	139	145 i	151	282	100
579	Nicholls State U.	NA	NA	NA	14	0	59	57	98
580	Seattle U.	72 i	74 i	76 i	78 i	80 i	82 i	84 i	95
581	Willamette U.	NA	137	29	77	69	87	136	94
582	Radford U.	NA	103	115	444	492	357	136	90
583	Truman State U.	223	156	156 e	127 i	98 i	68	156	84
584	CO C.	101 i	106	47	145	136	143	74	79 i
585	Des Moines U. Osteopathic Medical Ctr.	0	2	309	134	164	164 e	78	78 e
586	U. Central OK	66 i	65	121	9	245	250	58	71
587	Prescott C.	NA	NA	NA	NA	NA	NA	NA	70 i
588	Eastern OR U.	NA	NA	NA	NA	NA	243	126	64
589	La Salle U.	192	136	229	0	236	0	45	57
590	TX A&M U. Commerce	55	122	109	157	83	37	43	54
591	Widener U. all campuses	0	0	70	37	37 e	42 i	39 i	47 i
592	U. Findlay, The	NA	NA	NA	275	0	100	115	40
593	Bridgewater State C.	239 i	179 i	114	287	64	196	174	36
594	National U. of Health Sciences	NA	NA	NA	NA	NA	402	362	31
595	Northeastern IL U.	110	68	18	24	47	47	26	17
596	Saginaw Valley State U.	635 i	543 i	451 i	359 i	267 i	174	19	10
	CT C.	34 i	0 e	0 i	0 i	0 i	0 i	0 i	0 i
	Cooper Union	50 i	50 e	34	94	27	0	0	0
	Goucher C.	99	NA	NA	NA	NA	NA	NA	0 i

TABLE 28. Federally financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
	VA Military Institute	175	67	92	50	24	10	32	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0
	All other sampled institutions	75,876	96,409	55,363	53,867	44,798	40,112	5,062	0

e = estimated.

i = imputed.

NA = not available.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$643 million in federally financed R&D expenditures.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 29. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
	All institutions	10,055,792	10,704,778	11,429,054	12,532,972	13,571,781	14,504,363	15,312,984	15,565,848
1	U. WI Madison	186,050	203,182	250,476	275,732	300,134	317,098	320,813	329,452
2	U. CA, Los Angeles	182,928	213,362	225,621	256,664	380,943	420,836	428,183	311,424
3	U. CA, San Francisco	136,635	160,340	183,914	194,135	247,486	269,572	299,746	309,377
4	U. CA, Davis	162,398	174,778	183,487	223,049	277,459	280,009	273,818	289,820
5	TX A&M U. all campuses	221,732	248,782	253,052	247,629	257,659	273,193	279,116	283,104
6	U. CA, Berkeley	218,101	248,679	260,514	310,176	238,193	257,449	268,980	256,768
7	PA State U. all campuses	154,749	176,369	180,297	201,501	212,115	208,033	232,333	252,143
8	U. MI all campuses	187,457	185,311	174,393	187,523	204,406	229,469	263,236	247,787
9	U. CA, San Diego	138,086	155,687	169,625	192,522	213,257	225,625	246,408	243,061
10	Cornell U. all campuses	145,509	159,324	160,760	180,521	203,362	225,545	233,892	236,447
11	OH State U. all campuses	166,518	177,341	187,594	229,180	229,560	254,504	297,950	233,413
12	U. IL Urbana-Champaign	130,104	158,016	172,480	179,534	195,547	212,851	227,094	230,145
13	LA State U. all campuses	140,184	141,838	149,977	162,226	174,286	189,435	215,303	229,465
14	U. FL	178,045	168,352	182,151	193,318	212,471	219,208	234,776	225,248
15	Purdue U. all campuses	114,619	123,635	130,703	142,526	156,766	178,301	180,277	221,689
16	IN U. all campuses	69,267	75,914	92,528	120,160	143,118	166,321	184,044	217,255
17	U. GA	171,093	163,233	181,413	195,798	205,385	206,574	205,864	216,812
18	U. MN all campuses	162,946	155,582	163,623	181,422	197,722	198,964	215,291	206,692
19	U. TX M. D. Anderson Cancer Ctr.	79,876	78,186	85,713	100,324	118,693	144,512	192,300	202,505
20	U. AZ	133,057	140,329	142,119	157,929	167,644	179,055	195,867	194,724
21	NC State U.	159,819	174,721	190,103	187,221	203,384	198,037	189,868	189,134
22	U. NE all campuses	108,224	112,792	133,141	132,478	154,732	165,220	179,797	183,257
23	MI State U.	107,201	112,465	118,077	141,324	153,587	167,192	187,590	181,965
24	U. MD Baltimore	62,708	65,284	56,387	133,134	139,916	149,805	171,115	176,072
25	GA Institute of Technology all campuses	127,693	145,590	150,864	178,347	162,697	174,667	160,608	173,316
26	VA Polytechnic Institute and State U.	82,151	84,384	93,864	121,545	138,939	149,584	149,664	173,083
27	Duke U.	95,642	109,856	161,517	152,445	157,024	180,177	213,327	172,975
28	Rutgers, The State U. NJ all campuses	114,813	127,224	138,174	145,557	159,637	167,624	168,722	167,879
29	U. KY all campuses	62,676	100,586	107,850	128,534	125,482	135,849	152,059	167,723
30	Baylor C. of Medicine	94,915	105,918	131,087	140,926	147,067	152,449	158,999	163,406
31	U. PA	79,016	85,563	104,556	117,955	117,856	124,682	149,004	161,413
32	Johns Hopkins U., The ^a	104,715	100,637	103,938	107,890	119,505	117,725	137,161	145,588
33	U. MD College Park	112,999	93,992	112,547	115,824	121,868	130,885	138,693	144,705
34	Stanford U.	63,038	67,883	72,602	90,739	98,438	111,854	119,687	129,379
35	Northwestern U.	92,651	95,324	101,162	95,536	99,804	103,547	119,406	128,354
36	U. MO-Columbia	84,843	90,613	95,127	93,441	106,347	99,269	121,001	127,246
37	IA State U.	102,495	105,570	107,122	115,582	117,172	117,245	117,269	119,761
38	U. TN all campuses	80,181	80,901	88,743	91,631	83,287	99,917	116,903	119,403
39	Washington U. St. Louis	75,433	82,377	97,008	108,068	121,714	113,519	116,964	118,522

TABLE 29. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
40	MA Institute of Technology	99,534	102,357	111,385	119,631	131,176	116,377	129,558	115,896
41	SUNY Buffalo all campuses	57,571	75,613	81,333	91,282	90,234	105,583	110,386	115,087
42	U. IL Chicago	68,557	77,942	88,687	93,896	107,989	116,669	123,444	114,874
43	U. Southern CA	67,437	78,259	81,122	89,573	94,390	105,752	113,904	114,076
44	U. TX Southwestern Medical Ctr. Dallas	51,232	56,511	63,524	80,051	90,556	108,700	99,496	113,515
45	U. South FL	68,581	68,395	81,956	94,840	112,724	113,786	107,147	113,115
46	U. NC Chapel Hill	67,395	63,791	69,832	74,278	81,961	116,235	109,864	112,523
47	Wayne State U.	70,676	80,810	89,222	92,494	96,536	103,097	111,679	110,775
48	Rockefeller U.	66,020	71,649	76,509	78,927	90,209	99,044	116,840	109,687
49	SUNY Albany	16,225	16,674	18,036	20,733	23,448	26,996	44,617	109,265
50	MS State U.	49,229	58,406	64,368	78,695	81,446	81,131	86,085	109,147
51	U. TX Austin	87,067	79,761	93,209	93,922	99,920	101,808	111,858	108,605
52	U. CA, Irvine	55,376	63,813	66,337	70,163	78,131	93,921	100,783	106,029
53	U. IA	75,880	83,751	84,497	96,180	100,099	108,065	94,775	103,049
54	Clemson U.	55,942	61,951	72,277	83,599	75,325	87,666	90,434	97,520
55	WA State U.	52,670	50,912	52,333	56,355	59,277	85,724	104,528	96,791
56	Yale U.	56,412	57,634	60,646	64,687	70,812	79,939	90,931	91,991
57	SUNY Stony Brook all campuses	50,056	50,235	55,045	66,666	75,222	75,923	87,878	90,423
58	U. CA Office of the President	NA	NA	NA	NA	NA	NA	NA	90,030
59	U. WA	89,175	95,900	114,547	139,720	154,523	140,214	119,212	88,758
60	U. of Medicine and Dentistry NJ	52,912	54,663	64,547	65,633	76,363	87,921	85,268	87,322
61	U. CT all campuses	91,337	81,259	79,490	94,940	94,353	78,677	78,687	83,627
62	U. Cincinnati all campuses	63,312	69,388	52,677	61,610	64,846	66,486	68,840	81,361
63	U. Rochester	36,834	43,844	44,274	46,742	67,316	66,303	77,620	81,110
64	U. KS all campuses	62,160	66,548	75,480	79,720	81,973	89,468	82,148	79,272
65	NY U.	59,171	55,026	56,055	65,042	60,825	72,983	75,560	77,892
66	U. OK all campuses	68,631	72,410	84,496	90,360	88,431	99,985	99,148	77,530
67	Princeton U.	44,882	46,991	51,263	60,194	70,791	66,684	75,940	76,938
68	Auburn U. all campuses	58,048	60,062	53,486	61,097	66,250	66,343	71,626	76,140
69	U. UT	36,589	42,234	42,127	63,317	70,344	74,082	71,627	76,040
70	AZ State U. main campus	43,040	50,660	53,279	58,182	62,147	58,609	73,850	72,287
71	CO State U.	49,187	59,728	58,338	50,850	59,836	66,195	69,903	69,675
72	U. CA, Riverside	51,480	56,776	55,827	62,495	68,742	79,631	72,059	69,646
73	Emory U.	55,097	54,839	56,354	61,156	66,680	85,155	94,969	68,437
74	U. CO all campuses	77,615	82,861	73,932 e	53,241 i	56,829	59,352	58,820	68,006
75	U. Pittsburgh all campuses	41,700	45,331	54,859	66,654	80,221	93,287	64,059	67,249
76	OR State U.	51,336	55,824	57,636	60,353	69,071	70,052	67,132	66,010
77	FL State U.	42,963	44,012	42,007	48,265	56,742	63,895	64,292	65,165
78	U. TX Medical Branch	35,677	37,900	38,519	36,539	38,040	51,434	60,083	64,307
79	KS State U.	51,115	54,232	57,478	60,605	60,032	62,816	59,420	63,218

TABLE 29. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
80	Columbia U. in the City of NY	32,157	37,284	39,429	36,530	36,569	48,654	52,140	61,908
81	OK State U. all campuses	41,025	48,246	59,929	63,515	64,675	63,887	65,331	60,570
82	Medical U. SC	19,321	21,467	24,822	23,811	56,144	56,227	57,658	59,685
83	U. Central FL	25,231	22,028	26,418	33,845	56,945	36,422	42,131	59,241
84	U. CA, Santa Barbara	26,234	27,354	30,535	37,400	39,544	53,425	60,708	59,077
85	U. AR main campus	49,096	55,530	45,734	50,039	55,131	55,475	55,206	57,830
86	U. NM all campuses	39,174	41,545	30,874	33,538	47,114	46,346	51,698	57,786
87	U. AK Fairbanks all campuses	42,816	44,101	54,178	55,895	54,908	50,110	56,309	56,943
88	Vanderbilt U.	23,854	28,889	32,788	41,940	40,274	35,447	54,095	56,851
89	ND State U. all campuses	28,765	30,220	32,388	34,600	49,675	50,691	53,872	56,740
90	U. Louisville	19,913	24,080	41,515	46,349	47,741	41,996	48,598	56,177
91	U. MA Amherst	44,886	46,774	46,699	52,195	48,400	54,562	52,673	55,336
92	Harvard U.	77,349	54,224	60,174	60,111	71,693	64,760	60,087	54,731
93	U. Miami	34,372	35,480	37,725	39,162	41,969	50,148	46,846	52,503
94	Dartmouth C.	18,465	19,911	22,781	22,505	39,252	39,584	49,761	50,157
95	U. SC all campuses	40,850	50,199	57,345	52,526	57,990	69,705	58,366	49,815
96	U. HI Manoa	47,686	61,121	63,392	65,881	59,260	50,941	35,705	49,333
97	U. AL Birmingham, The	53,257	60,890	66,892	58,152	37,077	38,832	39,280	49,286
98	OR Health & Science U.	29,682	27,228 i	24,774 i	22,321	25,114	28,498	32,957	48,228
99	U. TX Health Science Ctr. San Antonio	32,541	30,403	30,900	38,573	44,001	45,855	46,621	47,377
100	WV U.	33,869	37,377	37,128	38,117	41,871	35,591	44,162	47,183
101	Brown U.	27,747	29,565	31,054	31,533	33,269	41,267	43,645	46,615
102	UT State U.	41,698	39,325	40,931	45,783	47,108	42,228	43,368	45,671
103	U. ME	18,078	20,078	22,289	30,409	40,197	38,417	40,022	44,703
104	U. ID	40,166 i	40,615	38,268	38,333	40,948	43,293	42,352	44,681
105	NJ Institute of Technology	17,441	19,855	19,855	30,514	39,473	41,588	43,129	44,003
106	VA Commonwealth U.	33,966	32,371	31,610	36,083	41,865	44,591	45,250	43,773
107	U. Chicago	28,848	25,653	27,085	29,806	38,559	41,434	46,193	43,288
108	U. MA Worcester	27,996	29,184	27,524	33,375	31,768	38,737	39,741	42,928
109	Mt. Sinai School of Medicine	33,862	39,453	43,141	51,658	67,602	59,356	51,134	42,029
110	U. CA, Santa Cruz	25,423	26,652	27,818	30,253	35,052	38,066	40,235	41,101
111	U. TX Health Science Ctr. Houston	28,433	31,547	34,019	39,922	36,894	39,704	41,813	40,591
112	Tulane U.	36,719	34,934	36,545	37,705	44,092	38,174	35,591	40,453
113	U. VA all campuses	31,597	39,962	23,282	24,732	26,679	29,982	32,757	40,411
114	U. LA Lafayette	17,682	18,934	21,305	20,528	19,943	34,871	29,314	39,368
115	MT State U. Bozeman	29,733	28,310	29,244	34,760	34,736	38,225	38,220	38,822
116	Medical C. WI	12,265	12,190	14,359	15,547	19,854	20,459	25,582	38,688
117	Southern IL U. Carbondale	21,411	22,689	25,509	26,224	32,339	42,815	40,940	38,396
118	Rush U.	25,587	26,833	29,838	35,616	32,918	34,638	39,362	37,548
119	U. WY	32,750	30,694	28,088	26,538	21,615	21,615 e	36,868	36,868 e

TABLE 29. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
120	San Diego State U.	20,349	22,194	25,855	32,200	34,711	39,079	38,969	36,618
121	Case Western Reserve U.	40,833	44,056	42,154	42,471	39,401	37,154	45,222	36,275
122	U. NH	21,758	26,446	27,027	33,187	42,656	42,393	36,952	36,018
123	U. VT	25,484	26,372	27,964	23,530	26,787	30,322	34,162	35,105
124	TX Tech U.	31,744	35,645	38,246	44,783	46,951	54,583	60,739	34,411
125	TX A&M U. System Health Science Ctr.	NA	NA	NA	11,415	22,475	27,219	28,302	33,887
126	Tufts U.	28,147	30,963	38,036	41,106	34,137	36,055	33,667	33,435
127	U. DE	33,064	36,208	38,893	36,995	35,661	36,974	31,213	33,402
128	U. NV, Reno	31,890	25,093	23,352	29,981	27,843	26,763	32,797	32,765
129	Carnegie Mellon U.	43,427	42,404	51,766	46,789	47,419	50,224	28,768	32,291
130	Yeshiva U.	18,883	19,000	22,091	37,987	40,430	42,856	48,342	31,733
131	Georgetown U.	34,916	31,810	27,454	34,375	5,602	9,363	16,436	30,468
132	U. Memphis, The	15,858	16,637	17,916	16,204	18,433	19,553	23,743	30,042
133	Uniformed Services U. of the Health Sciences	9,594	12,762	13,202	12,964	13,142	18,336	21,077	27,591
134	U. Houston	24,221	20,279	22,927	27,537	29,691	28,252	30,899	26,494
135	U. MD Ctr. for Environmental Science	15,137	16,598	18,700	20,800	24,530	25,421	25,690	25,807
136	U. of Notre Dame	4,943	5,820	6,869	7,162	16,295	19,086	18,583	25,605
137	Temple U.	28,126	34,231	24,206	14,253	18,539	19,273	20,018	25,599
138	George Washington U.	20,976	29,409	16,813	19,673	22,048	27,559	23,495	25,281
139	NM Institute of Mining and Technology	11,478	13,832	15,342	14,984	15,137	17,445	21,752	24,623
140	U. MD Biotechnology Institute	20,398	20,072	17,261	18,789	21,405	23,837	21,867	24,219
141	C. of William and Mary all campuses	13,140	14,869	19,430	20,268	20,541	21,851	21,982	23,371
142	Medical C. GA	26,821	26,679	27,112	30,386	31,075	28,388	28,118	22,967
143	SUNY C. of Environmental Science and Forestry	17,850	19,321	21,511	22,331	23,499	21,707	21,606	22,842 i
144	Boston U.	22,870	25,626	17,712	20,299	21,260	21,174	20,894	21,813
145	Drexel U.	8,722	8,674	9,483	10,584	7,539	14,233	20,277	21,157
146	U. MO-Rolla	12,815	13,806	17,162	16,164	16,870	16,473	17,857	21,024
147	U. AR for Medical Sciences	18,087	17,630	17,674	19,112	17,702	17,555	21,996	20,814
148	Rensselaer Polytechnic Institute	16,018 e	16,786	16,231	15,207	19,116	19,465	18,482	20,256
149	U. MS all campuses	10,535	11,616	13,076 i	16,820	18,959 i	21,098 i	23,238	20,080
150	Thomas Jefferson U.	20,137	17,732	22,041	22,178	24,055	23,757	23,735	19,782
151	GA State U.	19,525	19,869	22,213	24,510	25,385	25,597	23,435	19,570
152	Wichita State U.	9,195	10,471	11,295	10,985	10,416	12,155	11,782	18,152
153	Southern IL U. Edwardsville	900 i	722	1,169	1,144	959	12,630	15,760	18,144
154	OH U. all campuses	11,218	11,146	10,893	12,072	14,248	18,924	17,121	17,873
155	Wright State U. all campuses	7,290	8,844	10,766	16,549	16,616	14,892	16,127	17,453
156	U. NV, Las Vegas	6,407	7,199	9,922	10,400	11,327	8,160	9,694	17,416
157	U. Akron all campuses	12,853	12,284	9,139	12,414	13,594	18,543	18,605	17,204
158	MI Technological U.	11,199	12,584	11,967	10,554	11,993	12,032	12,597	16,935
159	NM State U. all campuses	23,859	20,783	23,002	22,622	25,839	32,764	33,245	16,933

TABLE 29. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
160	CA Institute of Technology	13,663	7,318	16,913	25,789	21,531	20,060	21,567	16,911
161	Northeastern U.	3,501	4,931	7,433	8,424	10,935	14,245	16,036	16,624
162	U. MT, The	9,597	8,385	9,745	11,212	14,341	16,755	16,342	16,600
163	U. MO-Kansas City	6,354	6,676	7,125	12,157	10,619	13,265	16,872	16,272
164	Eastern VA Medical School	8,491	12,223	12,742	11,185	14,861	15,495	17,370	16,268
165	CUNY Hunter C.	7,142	7,083	8,408	6,397	9,042	11,332	15,657	16,095
166	FL International U.	3,531	3,637	9,304	14,353	20,351	15,597	11,315	15,632
167	U. TX Dallas	7,842	7,096	8,328	8,635	8,635 e	14,574	16,218	15,541
168	Syracuse U. all campuses	10,862 i	8,122	9,590	10,443	12,440	13,166	14,287	15,114
169	SUNY Binghamton	13,092	14,549	12,237	12,342	12,600	12,384	14,109	14,991
170	U. WI Milwaukee	11,839	11,871	12,135	11,585	12,403	13,472	13,555	14,598
171	U. Toledo	5,792	6,146	6,137	7,382	9,577	15,829	13,195	14,479
172	SD State U.	10,021	9,819	9,513	9,336	11,261	10,970	16,211	14,437
173	U.S. Air Force Academy	104 i	130	62	46	314	17,426	14,599	14,259
174	Wake Forest U.	21,003	20,188	22,534	21,255	20,322	19,896	21,938	13,678
175	Woods Hole Oceanographic Institution	11,021	10,246	12,188	14,511	15,359	21,506	19,813	13,631
176	Brandeis U.	14,912	16,491	18,882	21,214	22,787	18,116	17,119	13,457
177	Old Dominion U.	7,847	7,804	9,324	10,150	9,379	12,053	11,442	13,442
178	U. ND all campuses	3,124	3,534	3,384	3,463	3,949	8,969	13,467	13,246
179	Lehigh U.	11,569	13,096	14,741	12,780	15,097	9,168	12,996	12,648
180	U. RI	4,789	4,632	8,245	9,597	7,674	7,894	9,876	12,357
181	TX Tech U. Health Science Ctr.	NA	NA	NA	NA	NA	NA	NA	12,223
182	U. MD Baltimore County	9,983	5,537	6,230	5,800	5,946	6,947	8,742	11,855
183	Creighton U.	7,998	10,915	11,086	10,300	10,399	12,388	14,703	11,706
184	Charles R. Drew U. of Medicine and Science	1,153 e	1,153 e	2,272	9,076	9,302	9,580	10,481	11,564
185	CA State U. Fresno	7,403 i	8,780 i	9,701 e	9,775	3,946	8,006	10,979	11,461
186	LA Tech U.	3,539 i	5,372	5,372 e	7,593	7,744	8,623	8,942	11,400
187	CO School of Mines	9,891	11,987	11,011	9,800	11,340	13,285	12,848	10,537
188	Cleveland State U.	7,296 e	7,515 e	8,238 e	6,896	9,000	9,206	10,501	10,508
189	Miami U. all campuses	6,768	4,051	7,662	8,000	9,480	9,258	9,415	10,245
190	U. MA Boston	8,119	8,331	8,181	8,680	9,126	8,284	10,214	10,048
191	Morehouse School of Medicine	1,119	1,153	674	1,470	1,543	2,037	2,772	9,986
192	Rice U.	5,666	6,295	6,057	6,696	6,993	8,430	8,661	9,715
193	U. AL Huntsville, The	11,086	13,174	15,037	15,335	13,106	12,693	11,037	9,652
194	SUNY Upstate Medical U.	7,726	7,602	7,210	8,634	8,479	8,922	9,279	9,440
195	Boston C.	3,539	4,996	7,234	11,094	10,645	8,927	9,251	9,251 e
196	U. PR Mayaguez Campus	27,805	29,278	31,864	22,846	9,612	11,074	10,433	9,147
197	FL Atlantic U.	2,868	4,683	6,115	7,176	11,012	8,429	8,429	9,105
198	San Jose State U.	9,180 i	9,180 e	9,180 e	9,180 e	8,408	9,226	9,388	8,905
199	U. MA Dartmouth	1,313	1,171	1,837	3,677	4,560	7,888	7,758	8,875

TABLE 29. Nonfederal R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004

(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
200	Mercer U. all campuses	2,963	2,952	4,593	6,788	6,261	4,391	6,978	8,824
	All other sampled institutions	522,981	558,137	553,176	551,059	598,386	653,047	681,627	636,072

e = estimated.

i = imputed.

NA = not available.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$27 million in nonfederally financed R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 30. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
	All institutions	42,945,081	27,379,233	2,846,722	2,107,322	7,771,253	2,840,551
1	Johns Hopkins U., The ^a	1,375,014	1,229,426	5,365	19,838	67,069	53,316
2	U. CA, Los Angeles	772,569	461,145	20,798	27,656	140,060	122,910
3	U. MI all campuses	769,126	521,339	16,232	32,215	156,534	42,806
4	U. WI Madison	763,875	434,423	35,872	17,911	210,191	65,478
5	U. CA, San Francisco	728,321	418,944	27,900	31,482	128,769	121,226
6	U. WA	713,976	625,218	10,454	46,531	15,230	16,543
7	U. CA, San Diego	708,690	465,629	18,999	31,028	115,730	77,304
8	Stanford U.	671,046	541,667	5,027	34,296	41,603	48,453
9	PA State U. all campuses	600,139	347,996	54,553	85,570	110,662	1,358
10	U. PA	596,756	435,343	3,642	27,678	47,909	82,184
11	Cornell U. all campuses	575,554	339,107	59,875	23,023	107,438	46,111
12	MA Institute of Technology	543,448	427,552	185	72,227	11,854	31,630
13	U. CA, Berkeley	525,598	268,830	37,428	22,833	123,116	73,391
14	Duke U.	520,871	347,896	17,245	94,359	29,471	31,900
15	OH State U. all campuses	518,088	284,675	61,831	42,763	97,526	31,293
16	U. MN all campuses	515,061	308,369	52,924	21,832	71,811	60,125
17	U. CA, Davis	511,757	221,937	42,023	24,248	172,914	50,635
18	U. IL Urbana-Champaign	506,041	275,896	43,633	13,128	161,294	12,090
19	Washington U. St. Louis	489,565	371,043	12,418	13,114	60,180	32,810
20	U. CO all campuses	482,992	414,986	6,669	10,018	31,908	19,411
21	U. AZ	478,680	283,956	6,422	29,571	138,489	20,242
22	Baylor C. of Medicine	476,075	312,669	3,140	18,642	52,100	89,524
23	Columbia U. in the City of NY	468,484	406,576	2,852	7,420	30,656	20,980
24	U. Pittsburgh all campuses	461,693	394,444	9,977	6,639	25,308	25,325
25	TX A&M U. all campuses	456,809	173,705	118,622	32,094	121,998	10,390
26	Harvard U.	454,495	399,764	1,850	5,877	0	47,004
27	U. FL	447,146	221,898	79,797	16,666	112,983	15,802
28	U. Southern CA	426,665	312,589	8,547	19,960	85,569	0
29	Yale U.	422,828	330,837	577	14,394	26,121	50,899
30	U. NC Chapel Hill	416,727	304,204	16,286	6,543	89,694	0
31	GA Institute of Technology all campuses	410,799	237,483	10,473	29,500	127,213	6,130
32	IN U. all campuses	384,168	166,913	4,274	7,939	155,170	49,872
33	Purdue U. all campuses	365,779	144,090	46,851	37,908	136,612	318
34	Northwestern U.	358,947	230,593	2,211	9,221	86,051	30,871
35	U. TX M. D. Anderson Cancer Ctr.	353,034	150,529	89,902	22,338	51,215	39,050
36	U. TX Austin	343,886	235,281	21,009	27,176	37,877	22,543
37	LA State U. all campuses	341,634	112,169	93,964	15,506	94,794	25,201
38	U. MD College Park	325,648	180,943	17,168	9,188	108,251	10,098
39	MI State U.	325,438	143,473	48,561	8,628	109,154	15,622
40	Vanderbilt U.	318,335	261,484	72	5,052	40,006	11,721
41	U. MD Baltimore	317,293	141,221	27,431	59,838	44,929	43,874
42	U. TX Southwestern Medical Ctr. Dallas	314,403	200,888	23,298	12,493	7,100	70,624
43	U. GA	313,160	96,348	55,387	12,794	147,465	1,166
44	U. IA	312,914	209,865	10,739	14,075	66,766	11,469
45	U. Rochester	312,303	231,193	12,723	27,926	25,769	14,692
46	Emory U.	311,685	243,248	10,509	5,524	29,298	23,106
47	U. AL Birmingham, The	310,950	261,664	309	9,391	25,850	13,736
48	U. IL Chicago	307,699	192,825	9,020	6,369	77,871	21,614
49	U. NE all campuses	299,090	115,833	9,562	13,471	140,549	19,675
50	U. KY all campuses	297,610	129,887	44,278	7,299	94,387	21,759
51	Rutgers, The State U. NJ all campuses	296,534	128,655	36,417	9,665	94,224	27,573

TABLE 30. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
52	NC State U.	292,720	103,586	86,492	40,734	59,199	2,709
53	U. Cincinnati all campuses	276,326	194,965	8,981	6,958	49,821	15,601
54	U. Chicago	272,390	229,102	4,402	3,098	14,970	20,818
55	VA Polytechnic Institute and State U.	268,752	95,669	66,126	22,857	69,457	14,643
56	CA Institute of Technology	261,098	244,187	1,607	3,918	6,777	4,609
57	NY U.	259,333	181,441	4,296	9,032	30,499	34,065
58	SUNY Buffalo all campuses	258,952	143,865	8,960	10,363	70,676	25,088
59	U. CA, Irvine	257,024	150,995	9,392	13,391	50,556	32,690
60	OR Health & Science U.	254,447	206,219	2,853	9,233	22,530	13,612
61	Boston U.	240,867	219,054	399	8,575	0	12,839
62	U. South FL	240,021	126,906	72,236	6,533	34,346	0
63	U. UT	237,159	161,119	2,714	5,032	45,986	22,308
64	U. HI Manoa	236,368	187,035	8,813	21,234	19,286	0
65	Case Western Reserve U.	231,800	195,525	22,097	5,340	8,838	0
66	U. TN all campuses	228,760	109,357	44,816	13,860	42,172	18,555
67	U. VA all campuses	228,532	188,121	2,275	7,456	21,673	9,007
68	Wayne State U.	225,475	114,700	15,044	12,473	67,450	15,808
69	U. MO-Columbia	217,550	90,304	22,807	4,177	95,769	4,493
70	CO State U.	214,888	145,213	16,288	15,333	22,258	15,796
71	SUNY Stony Brook all campuses	213,547	123,124	6,628	4,802	63,547	15,446
72	Mt. Sinai School of Medicine	212,786	170,757	4,339	10,780	6,268	20,642
73	IA State U.	211,996	92,235	39,730	15,056	61,820	3,155
74	U. CT all campuses	211,236	127,609	6,140	10,738	52,908	13,841
75	U. of Medicine and Dentistry NJ	209,134	121,812	8,347	14,533	38,704	25,738
76	Carnegie Mellon U.	205,149	172,858	8,776	14,728	4,141	4,646
77	SUNY Albany	203,977	94,712	63,706	7,409	24,115	14,035
78	U. Miami	194,446	141,943	3,658	18,924	8,309	21,612
79	Rockefeller U.	192,222	82,535	247	3,063	74,790	31,587
80	MS State U.	191,352	82,205	47,905	6,788	54,454	0
81	Princeton U.	188,373	111,435	2,154	7,975	54,794	12,015
82	Yeshiva U.	183,253	151,520	0	1,818	29,915	0
83	U. KS all campuses	181,192	101,920	4,850	2,295	63,179	8,948
84	Dartmouth C.	173,266	123,109	3,289	4,780	28,431	13,657
85	WA State U.	171,735	74,944	28,850	3,031	53,740	11,170
86	OR State U.	170,286	104,276	32,781	2,713	28,119	2,397
87	U. NM all campuses	170,085	112,299	2,048	2,413	47,411	5,914
88	U. MA Worcester	169,090	126,162	27,018	5,904	1,106	8,900
89	FL State U.	168,132	102,967	8,556	1,658	48,943	6,008
90	U. TX Medical Branch	166,798	102,491	16,183	5,842	29,920	12,362
91	Medical U. SC	163,179	103,494	1,096	7,472	46,919	4,198
92	Clemson U.	158,585	61,065	15,833	12,687	66,813	2,187
93	U. OK all campuses	158,578	81,048	9,806	8,085	44,666	14,973
94	UT State U.	153,616	107,945	20,736	3,338	18,591	3,006
95	AZ State U. main campus	152,164	79,877	13,857	8,062	46,801	3,567
96	U. CA, Santa Barbara	151,325	92,248	2,165	12,286	27,110	17,516
97	U. TX Health Science Ctr. Houston	147,328	106,737	5,752	7,373	12,239	15,227
98	Medical C. WI	139,235	100,547	0	716	25,853	12,119
99	U. TX Health Science Ctr. San Antonio	137,039	89,662	4,924	6,268	25,274	10,911
100	Wake Forest U.	133,753	120,075	176	5,787	1,890	5,825
101	VA Commonwealth U.	132,839	89,066	3,569	9,489	26,143	4,572
102	Tulane U.	132,784	92,331	7,356	13,541	15,799	3,757
103	U. AK Fairbanks all campuses	132,212	75,269	1,741	16,934	38,268	0
104	Brown U.	130,741	84,126	111	1,785	40,105	4,614

TABLE 30. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
105	Tufts U.	126,432	92,997	489	7,392	11,826	13,728
106	Georgetown U.	126,320	95,852	1,836	4,415	10,338	13,879
107	Auburn U. all campuses	125,705	49,565	2,394	3,833	65,179	4,734
108	U. SC all campuses	121,671	71,856	2,227	2,889	39,670	5,029
109	U. MA Amherst	120,788	65,452	3,597	4,914	38,932	7,893
110	KS State U.	119,306	56,088	33,730	3,407	21,799	4,282
111	U. VT	114,120	79,015	5,003	6,856	16,370	6,876
112	Woods Hole Oceanographic Institution	114,087	100,456	116	72	9,138	4,305
113	Thomas Jefferson U.	112,078	92,296	6,512	8,035	1,954	3,281
114	U. Louisville	110,653	54,476	5,656	2,862	29,486	18,173
115	U. CA, Riverside	110,627	40,981	6,909	4,807	45,324	12,606
116	U. DE	109,985	76,583	3,269	2,984	23,415	3,734
117	WV U.	108,002	60,819	3,832	3,757	37,945	1,649
118	U. NH	103,935	67,917	4,034	6,032	19,312	6,640
119	OK State U. all campuses	103,915	43,345	23,380	4,326	32,365	499
120	George Washington U.	103,473	78,192	676	2,058	1,835	20,712
121	U. Central FL	103,261	44,020	15,086	14,652	29,503	0
122	ND State U. all campuses	102,115	45,375	26,546	704	25,911	3,579
123	MT State U. Bozeman	97,696	58,874	18,376	4,446	16,000	0
124	U. CA, Santa Cruz	94,297	53,196	1,556	2,098	25,202	12,245
125	NM State U. all campuses	93,329	76,396	7,305	651	7,942	1,035
126	U. ID	93,246	48,565	20,389	1,415	20,904	1,973
127	U. CA Office of the President	90,233	203	37,662	7	51,798	563
128	Uniformed Services U. of the Health Sciences	89,999	62,408	0	0	23,760	3,831
129	Rush U.	89,254	51,706	34	9,387	25,378	2,749
130	U. AR main campus	88,918	31,088	34,273	5,958	13,863	3,736
131	U. NV, Reno	83,552	50,787	3,711	1,463	26,787	804
132	U. ME	81,216	36,513	9,941	3,737	28,871	2,154
133	U. MS all campuses	79,867	59,787	3,754	987	9,967	5,372
134	Drexel U.	76,120	54,963	3,254	2,344	13,071	2,488
135	Temple U.	76,055	50,456	3,025	6,202	9,456	6,916
136	NJ Institute of Technology	74,998	30,995	7,696	675	27,881	7,751
137	U. of Notre Dame	74,255	48,650	2,133	7,312	16,160	0
138	U. AR for Medical Sciences	74,063	53,249	6,149	3,270	7,525	3,870
139	San Diego State U.	66,710	30,092	8,544	730	21,317	6,027
140	Naval Postgraduate School	65,092 i	64,667 i	38 i	23 i	80 i	284 i
141	TX A&M U. System Health Science Ctr.	64,170	30,283	1,057	2,876	20,083	9,871
142	U. Dayton	63,734	56,647	1,254	3,781	1,593	459
143	FL International U.	63,545	47,913	7,130	5,101	0	3,401
144	U. Houston	60,962	34,468	10,192	5,297	6,119	4,886
145	U. RI	60,947	48,590	6,974	2,474	2,909	0
146	Rice U.	60,872	51,157	1,909	2,265	0	5,541
147	U. WY	60,054 e	23,186 e	1,993 e	2,494 e	29,370 e	3,011 e
148	Medical C. GA	58,808	35,841	1,987	3,055	15,693	2,232
149	Syracuse U. all campuses	58,276	43,162	5,430	1,611	4,428	3,645
150	TX Tech U.	57,592	23,181	14,291	6,224	11,430	2,466
151	Rensselaer Polytechnic Institute	56,907	36,651	4,571	6,429	7,380	1,876
152	U. LA Lafayette	55,218	15,850	6,003	0	13,672	19,693
153	Southern IL U. Carbondale	53,953	15,557	6,338	7,519	21,207	3,332
154	Charles R. Drew U. of Medicine and Science	51,994	40,430	6,420	5,135	9	0
155	U. OR	51,956	43,634	295	549	4,267	3,211
156	Brandeis U.	51,498	38,041	177	0	5,876	7,404

TABLE 30. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
157	U. MT, The	51,078	34,478	1,448	713	13,062	1,377
158	U. ND all campuses	49,595	36,349	1,952	4,918	5,292	1,084
159	C. of William and Mary all campuses	49,420	26,049	4,471	468	15,294	3,138
160	U. MD Baltimore County	49,403	37,548	4,555	546	3,925	2,829
161	U. AL Huntsville, The	49,259	39,607	301	756	8,595	0
162	U. MD Biotechnology Institute	48,278	24,059	116	3,175	20,928	0
163	Northeastern U.	47,283	30,659	1,633	8,316	6,675	0
164	George Mason U.	46,210	39,758	843	1,239	0	4,370
165	U. NV, Las Vegas	45,429	28,013	4,779	3,446	9,191	0
166	GA State U.	45,415	25,845	2,704	1,196	12,906	2,764
167	U. Memphis, The	44,120	14,078	3,043	284	24,291	2,424
168	San Francisco State U.	42,903	37,056	5,847	0	0	0
169	Howard U.	41,404	40,086	385	933	0	0
170	U. MO-Rolla	41,242	20,218	314	6,505	12,674	1,531
171	St. Louis U. all campuses	41,189 e	36,989 e	276 e	3,605 e	75 e	244 e
172	SUNY Health Science Ctr. Brooklyn	40,985 i	32,218 i	256 i	2,003 i	4,590 i	1,918 i
173	U. MD Ctr. for Environmental Science	39,631	13,824	5,202	78	16,392	4,135
174	OH U. all campuses	38,704	20,831	2,418	2,959	11,310	1,186
175	NM Institute of Mining and Technology	38,476	13,853	4,082	10,755	8,446	1,340
176	Wright State U. all campuses	38,052	20,599	3,519	2,900	10,723	311
177	Loyola U. Chicago	36,134	29,150	490	527	3,123	2,844
178	U. Southern MS	35,908	32,075	1,034	1,648	797	354
179	MI Technological U.	35,670	18,735	980	3,761	11,790	404
180	CUNY Hunter C.	34,931	18,836	4,410	32	7,822	3,831
181	Old Dominion U.	34,819	21,377	5,766	3,772	3,904	0
182	Desert Research Institute	34,783	26,235	3,294	2,127	879	2,248
183	U. PR Medical Sciences Campus	34,092	28,063	1,548	1,437	2,977	67
184	U. AL, The	33,835	25,329	2,253	1,428	4,825	0
185	Eastern VA Medical School	33,798	17,530	283	4,709	38	11,238
186	NY Medical C.	33,521	25,103	178	6,253	202	1,785
187	Morehouse School of Medicine	33,317	23,331	1,754	8,096	136	0
188	Boston C.	32,158 e	22,907 e	50 e	1,251 e	4,175 e	3,775 e
189	SUNY Upstate Medical U.	32,090	22,650	1,648	1,468	1,207	5,117
190	Lehigh U.	32,048	19,400	7,459	1,259	3,509	421
191	U. MO-Kansas City	31,968	15,696	0	1,044	13,955	1,273
192	Hampton U.	31,645	31,443	0	76	121	5
193	Jackson State U.	31,641	28,806	0	62	2,773	0
194	FL A&M U.	31,408	24,994	3,367	3,047	0	0
195	U. TX Dallas	31,274	15,733	9,113	1,016	1,368	4,044
196	U.S. Air Force Academy	29,998	15,739	0	625	13,634	0
197	Wichita State U.	29,948	11,796	6,922	2,937	8,136	157
198	Loma Linda U.	29,651	26,631	128	256	653	1,983
199	SD State U.	29,564	15,127	10,325	674	2,405	1,033
200	San Jose State U.	29,268	20,363	4,947	786	941	2,231
	All other sampled institutions	1,984,384	1,219,182	185,250	135,199	319,128	125,625

e = estimated.

i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$670 million in total R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 31. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
	All institutions	29,292,010	16,948,937	2,560,040	1,441,761	6,478,379	1,862,893
1	U. CA, Los Angeles	772,569	461,145	20,798	27,656	140,060	122,910
2	U. MI all campuses	769,126	521,339	16,232	32,215	156,534	42,806
3	U. WI Madison	763,875	434,423	35,872	17,911	210,191	65,478
4	U. CA, San Francisco	728,321	418,944	27,900	31,482	128,769	121,226
5	U. WA	713,976	625,218	10,454	46,531	15,230	16,543
6	U. CA, San Diego	708,690	465,629	18,999	31,028	115,730	77,304
7	PA State U. all campuses	600,139	347,996	54,553	85,570	110,662	1,358
8	U. CA, Berkeley	525,598	268,830	37,428	22,833	123,116	73,391
9	OH State U. all campuses	518,088	284,675	61,831	42,763	97,526	31,293
10	U. MN all campuses	515,061	308,369	52,924	21,832	71,811	60,125
11	U. CA, Davis	511,757	221,937	42,023	24,248	172,914	50,635
12	U. IL Urbana-Champaign	506,041	275,896	43,633	13,128	161,294	12,090
13	U. CO all campuses	482,992	414,986	6,669	10,018	31,908	19,411
14	U. AZ	478,680	283,956	6,422	29,571	138,489	20,242
15	U. Pittsburgh all campuses	461,693	394,444	9,977	6,639	25,308	25,325
16	TX A&M U. all campuses	456,809	173,705	118,622	32,094	121,998	10,390
17	U. FL	447,146	221,898	79,797	16,666	112,983	15,802
18	U. NC Chapel Hill	416,727	304,204	16,286	6,543	89,694	0
19	GA Institute of Technology all campuses	410,799	237,483	10,473	29,500	127,213	6,130
20	IN U. all campuses	384,168	166,913	4,274	7,939	155,170	49,872
21	Purdue U. all campuses	365,779	144,090	46,851	37,908	136,612	318
22	U. TX M. D. Anderson Cancer Ctr.	353,034	150,529	89,902	22,338	51,215	39,050
23	U. TX Austin	343,886	235,281	21,009	27,176	37,877	22,543
24	LA State U. all campuses	341,634	112,169	93,964	15,506	94,794	25,201
25	U. MD College Park	325,648	180,943	17,168	9,188	108,251	10,098
26	MI State U.	325,438	143,473	48,561	8,628	109,154	15,622
27	U. MD Baltimore	317,293	141,221	27,431	59,838	44,929	43,874
28	U. TX Southwestern Medical Ctr. Dallas	314,403	200,888	23,298	12,493	7,100	70,624
29	U. GA	313,160	96,348	55,387	12,794	147,465	1,166
30	U. IA	312,914	209,865	10,739	14,075	66,766	11,469
31	U. AL Birmingham, The	310,950	261,664	309	9,391	25,850	13,736
32	U. IL Chicago	307,699	192,825	9,020	6,369	77,871	21,614
33	U. NE all campuses	299,090	115,833	9,562	13,471	140,549	19,675
34	U. KY all campuses	297,610	129,887	44,278	7,299	94,387	21,759
35	Rutgers, The State U. NJ all campuses	296,534	128,655	36,417	9,665	94,224	27,573
36	NC State U.	292,720	103,586	86,492	40,734	59,199	2,709
37	U. Cincinnati all campuses	276,326	194,965	8,981	6,958	49,821	15,601
38	VA Polytechnic Institute and State U.	268,752	95,669	66,126	22,857	69,457	14,643
39	SUNY Buffalo all campuses	258,952	143,865	8,960	10,363	70,676	25,088
40	U. CA, Irvine	257,024	150,995	9,392	13,391	50,556	32,690
41	OR Health & Science U.	254,447	206,219	2,853	9,233	22,530	13,612
42	U. South FL	240,021	126,906	72,236	6,533	34,346	0
43	U. UT	237,159	161,119	2,714	5,032	45,986	22,308
44	U. HI Manoa	236,368	187,035	8,813	21,234	19,286	0
45	U. TN all campuses	228,760	109,357	44,816	13,860	42,172	18,555
46	U. VA all campuses	228,532	188,121	2,275	7,456	21,673	9,007
47	Wayne State U.	225,475	114,700	15,044	12,473	67,450	15,808
48	U. MO-Columbia	217,550	90,304	22,807	4,177	95,769	4,493
49	CO State U.	214,888	145,213	16,288	15,333	22,258	15,796
50	SUNY Stony Brook all campuses	213,547	123,124	6,628	4,802	63,547	15,446
51	IA State U.	211,996	92,235	39,730	15,056	61,820	3,155

TABLE 31. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
52	U. CT all campuses	211,236	127,609	6,140	10,738	52,908	13,841
53	U. of Medicine and Dentistry NJ	209,134	121,812	8,347	14,533	38,704	25,738
54	SUNY Albany	203,977	94,712	63,706	7,409	24,115	14,035
55	MS State U.	191,352	82,205	47,905	6,788	54,454	0
56	U. KS all campuses	181,192	101,920	4,850	2,295	63,179	8,948
57	WA State U.	171,735	74,944	28,850	3,031	53,740	11,170
58	OR State U.	170,286	104,276	32,781	2,713	28,119	2,397
59	U. NM all campuses	170,085	112,299	2,048	2,413	47,411	5,914
60	U. MA Worcester	169,090	126,162	27,018	5,904	1,106	8,900
61	FL State U.	168,132	102,967	8,556	1,658	48,943	6,008
62	U. TX Medical Branch	166,798	102,491	16,183	5,842	29,920	12,362
63	Medical U. SC	163,179	103,494	1,096	7,472	46,919	4,198
64	Clemson U.	158,585	61,065	15,833	12,687	66,813	2,187
65	U. OK all campuses	158,578	81,048	9,806	8,085	44,666	14,973
66	UT State U.	153,616	107,945	20,736	3,338	18,591	3,006
67	AZ State U. main campus	152,164	79,877	13,857	8,062	46,801	3,567
68	U. CA, Santa Barbara	151,325	92,248	2,165	12,286	27,110	17,516
69	U. TX Health Science Ctr. Houston	147,328	106,737	5,752	7,373	12,239	15,227
70	U. TX Health Science Ctr. San Antonio	137,039	89,662	4,924	6,268	25,274	10,911
71	VA Commonwealth U.	132,839	89,066	3,569	9,489	26,143	4,572
72	U. AK Fairbanks all campuses	132,212	75,269	1,741	16,934	38,268	0
73	Auburn U. all campuses	125,705	49,565	2,394	3,833	65,179	4,734
74	U. SC all campuses	121,671	71,856	2,227	2,889	39,670	5,029
75	U. MA Amherst	120,788	65,452	3,597	4,914	38,932	7,893
76	KS State U.	119,306	56,088	33,730	3,407	21,799	4,282
77	U. VT	114,120	79,015	5,003	6,856	16,370	6,876
78	U. Louisville	110,653	54,476	5,656	2,862	29,486	18,173
79	U. CA, Riverside	110,627	40,981	6,909	4,807	45,324	12,606
80	U. DE	109,985	76,583	3,269	2,984	23,415	3,734
81	WV U.	108,002	60,819	3,832	3,757	37,945	1,649
82	U. NH	103,935	67,917	4,034	6,032	19,312	6,640
83	OK State U. all campuses	103,915	43,345	23,380	4,326	32,365	499
84	U. Central FL	103,261	44,020	15,086	14,652	29,503	0
85	ND State U. all campuses	102,115	45,375	26,546	704	25,911	3,579
86	MT State U. Bozeman	97,696	58,874	18,376	4,446	16,000	0
87	U. CA, Santa Cruz	94,297	53,196	1,556	2,098	25,202	12,245
88	NM State U. all campuses	93,329	76,396	7,305	651	7,942	1,035
89	U. ID	93,246	48,565	20,389	1,415	20,904	1,973
90	U. CA Office of the President	90,233	203	37,662	7	51,798	563
91	Uniformed Services U. of the Health Sciences	89,999	62,408	0	0	23,760	3,831
92	U. AR main campus	88,918	31,088	34,273	5,958	13,863	3,736
93	U. NV, Reno	83,552	50,787	3,711	1,463	26,787	804
94	U. ME	81,216	36,513	9,941	3,737	28,871	2,154
95	U. MS all campuses	79,867	59,787	3,754	987	9,967	5,372
96	Temple U.	76,055	50,456	3,025	6,202	9,456	6,916
97	NJ Institute of Technology	74,998	30,995	7,696	675	27,881	7,751
98	U. AR for Medical Sciences	74,063	53,249	6,149	3,270	7,525	3,870
99	San Diego State U.	66,710	30,092	8,544	730	21,317	6,027
100	Naval Postgraduate School	65,092 i	64,667 i	38 i	23 i	80 i	284 i
101	TX A&M U. System Health Science Ctr.	64,170	30,283	1,057	2,876	20,083	9,871
102	FL International U.	63,545	47,913	7,130	5,101	0	3,401
103	U. Houston	60,962	34,468	10,192	5,297	6,119	4,886
104	U. RI	60,947	48,590	6,974	2,474	2,909	0

TABLE 31. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
105	U. WY	60,054 e	23,186 e	1,993 e	2,494 e	29,370 e	3,011 e
106	Medical C. GA	58,808	35,841	1,987	3,055	15,693	2,232
107	TX Tech U.	57,592	23,181	14,291	6,224	11,430	2,466
108	U. LA Lafayette	55,218	15,850	6,003	0	13,672	19,693
109	Southern IL U. Carbondale	53,953	15,557	6,338	7,519	21,207	3,332
110	U. OR	51,956	43,634	295	549	4,267	3,211
111	U. MT, The	51,078	34,478	1,448	713	13,062	1,377
112	U. ND all campuses	49,595	36,349	1,952	4,918	5,292	1,084
113	C. of William and Mary all campuses	49,420	26,049	4,471	468	15,294	3,138
114	U. MD Baltimore County	49,403	37,548	4,555	546	3,925	2,829
115	U. AL Huntsville, The	49,259	39,607	301	756	8,595	0
116	U. MD Biotechnology Institute	48,278	24,059	116	3,175	20,928	0
117	George Mason U.	46,210	39,758	843	1,239	0	4,370
118	U. NV, Las Vegas	45,429	28,013	4,779	3,446	9,191	0
119	GA State U.	45,415	25,845	2,704	1,196	12,906	2,764
120	U. Memphis, The	44,120	14,078	3,043	284	24,291	2,424
121	San Francisco State U.	42,903	37,056	5,847	0	0	0
122	U. MO-Rolla	41,242	20,218	314	6,505	12,674	1,531
123	SUNY Health Science Ctr. Brooklyn	40,985 i	32,218 i	256 i	2,003 i	4,590 i	1,918 i
124	U. MD Ctr. for Environmental Science	39,631	13,824	5,202	78	16,392	4,135
125	OH U. all campuses	38,704	20,831	2,418	2,959	11,310	1,186
126	NM Institute of Mining and Technology	38,476	13,853	4,082	10,755	8,446	1,340
127	Wright State U. all campuses	38,052	20,599	3,519	2,900	10,723	311
128	U. Southern MS	35,908	32,075	1,034	1,648	797	354
129	MI Technological U.	35,670	18,735	980	3,761	11,790	404
130	CUNY Hunter C.	34,931	18,836	4,410	32	7,822	3,831
131	Old Dominion U.	34,819	21,377	5,766	3,772	3,904	0
132	Desert Research Institute	34,783	26,235	3,294	2,127	879	2,248
133	U. PR Medical Sciences Campus	34,092	28,063	1,548	1,437	2,977	67
134	U. AL, The	33,835	25,329	2,253	1,428	4,825	0
135	SUNY Upstate Medical U.	32,090	22,650	1,648	1,468	1,207	5,117
136	U. MO-Kansas City	31,968	15,696	0	1,044	13,955	1,273
137	Jackson State U.	31,641	28,806	0	62	2,773	0
138	FL A&M U.	31,408	24,994	3,367	3,047	0	0
139	U. TX Dallas	31,274	15,733	9,113	1,016	1,368	4,044
140	U.S. Air Force Academy	29,998	15,739	0	625	13,634	0
141	Wichita State U.	29,948	11,796	6,922	2,937	8,136	157
142	SD State U.	29,564	15,127	10,325	674	2,405	1,033
143	San Jose State U.	29,268	20,363	4,947	786	941	2,231
144	SUNY C. of Environmental Science and Forestry	28,568 i	5,726 i	2,072 i	1,150 i	18,191 i	1,429 i
145	U. WI Milwaukee	28,268	13,670	3,653	515	8,171	2,259
146	U. Toledo	27,708	13,229	1,009	1,238	10,971	1,261
147	U. Akron all campuses	27,488	10,284	992	3,475	9,323	3,414
148	CO School of Mines	27,087	16,550	1,027	9,510	0	0
149	CUNY City C.	25,947	19,711	2,696	3,183	305	52
150	U. TX El Paso	25,440	16,900	6,008	1,792	740	0
	All other sampled institutions	1,171,822	718,777	137,703	56,703	198,719	59,920

e = estimated.

i = imputed.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 32. R&D expenditures at private universities and colleges, ranked by all R&D expenditures for the first 100 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
	All institutions	13,653,071	10,430,296	286,682	665,561	1,292,874	977,658
1	Johns Hopkins U., The ^a	1,375,014	1,229,426	5,365	19,838	67,069	53,316
2	Stanford U.	671,046	541,667	5,027	34,296	41,603	48,453
3	U. PA	596,756	435,343	3,642	27,678	47,909	82,184
4	Cornell U. all campuses	575,554	339,107	59,875	23,023	107,438	46,111
5	MA Institute of Technology	543,448	427,552	185	72,227	11,854	31,630
6	Duke U.	520,871	347,896	17,245	94,359	29,471	31,900
7	Washington U. St. Louis	489,565	371,043	12,418	13,114	60,180	32,810
8	Baylor C. of Medicine	476,075	312,669	3,140	18,642	52,100	89,524
9	Columbia U. in the City of NY	468,484	406,576	2,852	7,420	30,656	20,980
10	Harvard U.	454,495	399,764	1,850	5,877	0	47,004
11	U. Southern CA	426,665	312,589	8,547	19,960	85,569	0
12	Yale U.	422,828	330,837	577	14,394	26,121	50,899
13	Northwestern U.	358,947	230,593	2,211	9,221	86,051	30,871
14	Vanderbilt U.	318,335	261,484	72	5,052	40,006	11,721
15	U. Rochester	312,303	231,193	12,723	27,926	25,769	14,692
16	Emory U.	311,685	243,248	10,509	5,524	29,298	23,106
17	U. Chicago	272,390	229,102	4,402	3,098	14,970	20,818
18	CA Institute of Technology	261,098	244,187	1,607	3,918	6,777	4,609
19	NY U.	259,333	181,441	4,296	9,032	30,499	34,065
20	Boston U.	240,867	219,054	399	8,575	0	12,839
21	Case Western Reserve U.	231,800	195,525	22,097	5,340	8,838	0
22	Mt. Sinai School of Medicine	212,786	170,757	4,339	10,780	6,268	20,642
23	Carnegie Mellon U.	205,149	172,858	8,776	14,728	4,141	4,646
24	U. Miami	194,446	141,943	3,658	18,924	8,309	21,612
25	Rockefeller U.	192,222	82,535	247	3,063	74,790	31,587
26	Princeton U.	188,373	111,435	2,154	7,975	54,794	12,015
27	Yeshiva U.	183,253	151,520	0	1,818	29,915	0
28	Dartmouth C.	173,266	123,109	3,289	4,780	28,431	13,657
29	Medical C. WI	139,235	100,547	0	716	25,853	12,119
30	Wake Forest U.	133,753	120,075	176	5,787	1,890	5,825
31	Tulane U.	132,784	92,331	7,356	13,541	15,799	3,757
32	Brown U.	130,741	84,126	111	1,785	40,105	4,614
33	Tufts U.	126,432	92,997	489	7,392	11,826	13,728
34	Georgetown U.	126,320	95,852	1,836	4,415	10,338	13,879
35	Woods Hole Oceanographic Institution	114,087	100,456	116	72	9,138	4,305
36	Thomas Jefferson U.	112,078	92,296	6,512	8,035	1,954	3,281
37	George Washington U.	103,473	78,192	676	2,058	1,835	20,712
38	Rush U.	89,254	51,706	34	9,387	25,378	2,749
39	Drexel U.	76,120	54,963	3,254	2,344	13,071	2,488
40	U. of Notre Dame	74,255	48,650	2,133	7,312	16,160	0
41	U. Dayton	63,734	56,647	1,254	3,781	1,593	459
42	Rice U.	60,872	51,157	1,909	2,265	0	5,541
43	Syracuse U. all campuses	58,276	43,162	5,430	1,611	4,428	3,645
44	Rensselaer Polytechnic Institute	56,907	36,651	4,571	6,429	7,380	1,876
45	Charles R. Drew U. of Medicine and Science	51,994	40,430	6,420	5,135	9	0
46	Brandeis U.	51,498	38,041	177	0	5,876	7,404
47	Northeastern U.	47,283	30,659	1,633	8,316	6,675	0
48	Howard U.	41,404	40,086	385	933	0	0
49	St. Louis U. all campuses	41,189 e	36,989 e	276 e	3,605 e	75 e	244 e
50	Loyola U. Chicago	36,134	29,150	490	527	3,123	2,844

TABLE 32. R&D expenditures at private universities and colleges, ranked by all R&D expenditures for the first 100 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
51	Eastern VA Medical School	33,798	17,530	283	4,709	38	11,238
52	NY Medical C.	33,521	25,103	178	6,253	202	1,785
53	Morehouse School of Medicine	33,317	23,331	1,754	8,096	136	0
54	Boston C.	32,158 e	22,907 e	50 e	1,251 e	4,175 e	3,775 e
55	Lehigh U.	32,048	19,400	7,459	1,259	3,509	421
56	Hampton U.	31,645	31,443	0	76	121	5
57	Loma Linda U.	29,651	26,631	128	256	653	1,983
58	Meharry Medical C.	27,507	26,159	0	8	0	1,340
59	Creighton U.	25,451	13,745	2,540	7,450	1,560	156
60	Catholic U. America, The	23,610	18,927	40	186	4,121	336
61	Brigham Young U. all campuses	23,565	17,129	1,265	2,013	1,989	1,169
62	IL Institute of Technology	22,948	14,903	3,250	0	1,107	3,688
63	Stevens Institute of Technology	22,814	19,473	1,783	1,313	245	0
64	Rochester Institute of Technology	19,423	12,415	1,467	4,293	0	1,248
65	Mercer U. all campuses	18,437	9,613	233	6,899	1,692	0
66	Albany Medical C.	15,562	11,849	204	176	2,426	907
67	U. Tulsa	15,375	11,240	860	2,538	737	0
68	Clarkson U.	14,703	6,434	2,742	1,992	3,535	0
69	Worcester Polytechnic Institute	14,045	8,489	270	2,041	2,356	889
70	Clark Atlanta U.	13,576	13,075	75	0	349	77
71	U. Denver	12,500	9,839	141	584	1,476	460
72	Polytechnic U.	11,627	4,660	1,893	2,497	1,594	983
73	Tuskegee U.	11,519	8,904	0	0	0	2,615
74	Rosalind Franklin U. of Medicine and Science	10,614	7,843	0	255	1,208	1,308
75	Southern Methodist U.	10,432	6,752	462	367	2,147	704
76	Ponce School of Medicine	10,140	9,179	0	961	0	0
77	Universidad Central del Caribe	9,797	8,498	838	0	393	68
78	Teachers C. Columbia U.	9,684	6,256	0	0	0	3,428
79	Marquette U.	9,652	6,046	650	1,001	1,137	818
80	Embry-Riddle Aeronautical U.	8,558	5,179	393	2,516	470	0
81	Duquesne U.	8,082	3,479	307	336	3,903	57
82	FL Institute of Technology	7,801	5,575	452	775	130	869
83	Wesleyan U.	7,741	5,388	45	35	1,447	826
84	Villanova U.	6,455 i	4,669 i	295 i	868 i	0 i	623 i
85	Alfred U. all campuses	6,395	1,494	1,877	1,736	1,288	0
86	Rose-Hulman Institute of Technology	6,388	726	0	56	0	5,606
87	Wellesley C.	5,714	3,708	266	56	0	1,684
88	Bryn Mawr C.	5,664	1,065	12	0	3,941	646
89	New School, The	5,642	2,330	0	0	0	3,312
90	Clark U.	5,638 e	4,475 e	115 e	31 e	829 e	188 e
91	Xavier U. LA	5,585	5,226	310	0	0	49
92	Baylor U.	5,242	1,372	706	1,033	1,567	564
93	Nova Southeastern U.	5,139	1,884	1,169	0	264	1,822
94	Fisk U.	5,000	5,000	0	0	0	0
95	Union C. (Schenectady, NY)	4,068	664	57	2,387	684	276

TABLE 32. R&D expenditures at private universities and colleges, ranked by all R&D expenditures for the first 100 institutions, by source of funds: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
96	TX Christian U.	3,960	2,961	143	830	26	0
97	DePaul U.	3,748	3,539	2	123	84	0
98	NY Institute of Technology all campuses	3,476	1,110	142	110	2,097	17
99	Fordham U.	3,391	929	591	0	372	1,499
100	St. Joseph's U.	3,250	2,612	309	0	47	282
	All other sampled institutions	152,138	89,522	4,186	12,167	27,487	18,776

e = estimated.

i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$670 million in total R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 33. Industry-financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004
(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
	All institutions	1,736,793	1,888,299	2,032,727	2,155,741	2,219,791	2,186,906	2,162,963	2,107,322
1	Duke U.	48,178	65,114	121,630	109,791	104,063	99,807	122,181	94,359
2	PA State U. all campuses	56,666	63,319	65,698	64,393	67,658	67,131	77,660	85,570
3	MA Institute of Technology	59,204	60,538	75,444	83,082	97,256	79,921	80,664	72,227
4	U. MD Baltimore	18,581	20,783	11,572	29,892	41,226	51,562	65,473	59,838
5	U. WA	37,744	38,370	51,319	57,405	43,312	46,702	48,222	46,531
6	OH State U. all campuses	36,685	40,401	52,034	57,075	54,736	51,135	45,957	42,763
7	NC State U.	26,834	31,429	34,414	35,675	37,858	34,656	35,940	40,734
8	Purdue U. all campuses	26,090	26,988	28,856	29,997	29,765	29,614	34,720	37,908
9	Stanford U.	23,839	27,404	31,516	41,013	35,012	39,110	31,176	34,296
10	U. MI all campuses	31,411	33,029	34,432	35,515	34,439	33,252	36,087	32,215
11	TX A&M U. all campuses	31,816	33,674	34,722	31,084	35,110	33,300	27,006	32,094
12	U. CA, San Francisco	26,931	34,369	36,830	34,964	35,759	33,577	37,396	31,482
13	U. CA, San Diego	23,725	27,010	31,356	34,541	36,845	32,299	28,868	31,028
14	U. AZ	14,964	16,392	16,660	22,412	22,934	23,104	31,079	29,571
15	GA Institute of Technology all campuses	48,094	58,377	62,752	64,508	59,691	55,802	32,839	29,500
16	U. Rochester	14,147	17,653	18,226	17,595	23,782	24,645	25,298	27,926
17	U. PA	18,964	25,593	30,269	32,632	28,227	26,994	26,623	27,678
18	U. CA, Los Angeles	23,144	28,310	34,404	33,427	32,539	31,686	30,425	27,656
19	U. TX Austin	29,887	31,326	39,729	24,740	30,310	26,114	32,174	27,176
20	U. CA, Davis	10,731	14,238	16,242	17,891	16,989	20,754	22,688	24,248
21	Cornell U. all campuses	8,215	11,253	12,053	12,697	22,261	27,341	25,569	23,023
22	VA Polytechnic Institute and State U.	11,385	12,132	13,287	14,869	18,355	20,866	24,760	22,857
23	U. CA, Berkeley	21,253	20,902	21,928	27,851	26,791	24,999	22,460	22,833
24	U. TX M. D. Anderson Cancer Ctr.	0	0	0	20,271	26,717	33,407	31,316	22,338
25	U. MN all campuses	24,196	24,094	23,933	26,392	26,454	26,572	24,152	21,832
26	U. HI Manoa	5,944	10,949	13,021	11,158	7,232	9,957	6,829	21,234
27	U. Southern CA	21,606	24,125	23,111	25,298	22,949	24,321	25,406	19,960
28	Johns Hopkins U., The ^a	13,917	14,761	15,317	15,751	18,737	20,282	19,477	19,838
29	U. Miami	12,200	13,338	15,752	17,028	17,554	17,262	17,117	18,924
30	Baylor C. of Medicine	14,420	16,588	19,400	17,578	18,389	18,729	17,526	18,642
31	U. WI Madison	14,832	14,371	14,172	16,127	17,237	16,746	15,918	17,911
32	U. AK Fairbanks all campuses	12,769	16,081	19,340	19,686	28,352	22,907	23,093	16,934
33	U. FL	25,217	21,393	28,183	34,879	17,183	19,017	23,893	16,666
34	LA State U. all campuses	13,331	12,157	13,187	15,108	16,648	16,394	16,212	15,506
35	CO State U.	5,712	6,155	7,213	6,519	8,850	10,034	14,736	15,333
36	IA State U.	8,499	13,717	14,905	15,075	13,177	16,047	14,384	15,056
37	Carnegie Mellon U.	18,016	19,136	17,761	21,136	23,491	25,261	13,132	14,728
38	U. Central FL	9,800	4,019	4,873	5,833	5,288	5,499	6,128	14,652
39	U. of Medicine and Dentistry NJ	8,519	8,841	10,736	10,001	13,496	12,125	11,364	14,533
40	Yale U.	16,629	15,829	15,242	14,355	14,119	13,025	15,417	14,394
41	U. IA	15,712	17,262	20,778	17,262	21,394	19,169	20,954	14,075
42	U. TN all campuses	12,675	12,551	15,093	12,740	15,391	14,520	13,994	13,860
43	Tulane U.	12,913	10,734	11,914	10,340	8,654	13,555	14,454	13,541
44	U. NE all campuses	8,594 i	10,276 i	10,990 i	11,552	11,840	13,982	14,314	13,471
45	U. CA, Irvine	12,712	15,981	16,539	18,615	15,803	14,261	11,101	13,391
46	U. IL Urbana-Champaign	11,761	13,636	12,864	12,693	10,992	11,796	13,253	13,128
47	Washington U. St. Louis	21,205	19,869	19,964	22,691	24,865	16,100	13,054	13,114
48	U. GA	10,283	10,534	11,034	12,276	13,791	15,387	15,777	12,794
49	Clemson U.	5,253	6,641	8,445	9,768	11,582	12,035	12,329	12,687
50	U. TX Southwestern Medical Ctr. Dallas	12,737	13,926	16,197	14,861	13,320	12,836	12,087	12,493
51	Wayne State U.	10,959	11,207	10,660	10,932	10,860	11,163	13,566	12,473
52	U. CA, Santa Barbara	3,106	3,809	4,742	5,499	6,001	10,482	13,550	12,286

TABLE 33. Industry-financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004
(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
53	Mt. Sinai School of Medicine	6,994	7,588	9,257	12,141	18,133	12,203	12,686	10,780
54	NM Institute of Mining and Technology	4,723	6,385	7,034	6,373	6,204	6,378	8,145	10,755
55	U. CT all campuses	8,572	9,905	10,355	13,540	9,819	9,889	12,143	10,738
56	SUNY Buffalo all campuses	14,480	3,021	5,485	5,590	11,598	12,171	10,575	10,363
57	U. CO all campuses	9,403	9,963	9,867 e	9,356 i	9,002	11,822	10,239	10,018
58	Rutgers, The State U. NJ all campuses	8,848	9,038	9,833	8,843	10,965	11,772	10,821	9,665
59	CO School of Mines	8,038	9,877	9,292	7,870	9,466	11,001	11,327	9,510
60	VA Commonwealth U.	9,172	8,478	8,062	7,495	8,522	9,053	10,780	9,489
61	U. AL Birmingham, The	16,233	16,842	10,181	7,752	8,443	8,368	6,255	9,391
62	Rush U.	7,232	8,911	8,154	8,762	9,128	10,108	9,321	9,387
63	OR Health & Science U.	7,036	1,757 i	1,599 i	12,430	11,538	10,626	8,673	9,233
64	Northwestern U.	10,498	13,292	14,168	12,860	14,294	12,214	8,927	9,221
65	U. MD College Park	5,009	2,127	3,053	1,028	7,315	5,078	8,060	9,188
66	NY U.	8,502	8,391	7,502	7,767	6,535	5,902	8,043	9,032
67	MI State U.	6,973	7,250	7,647	11,230	10,953	11,458	11,307	8,628
68	Boston U.	8,916	9,461	7,601	8,574	8,450	8,935	8,084	8,575
69	Northeastern U.	2,827	3,530	2,981	3,567	5,530	7,487	8,179	8,316
70	Morehouse School of Medicine	721	742	129	677	1,047	1,350	150	8,096
71	U. OK all campuses	6,871	7,661	7,756	9,499	10,396	12,660	10,645	8,085
72	AZ State U. main campus	3,376	4,609	4,267	4,700	5,641	7,095	8,103	8,062
73	Thomas Jefferson U.	9,851	10,155	12,081	12,324	12,326	13,209	8,781	8,035
74	Princeton U.	4,441	5,242	5,965	6,881	8,246	8,292	8,487	7,975
75	IN U. all campuses	4,242	6,333	4,820	5,384	6,375	5,312	8,079	7,939
76	Southern IL U. Carbondale	1,954	2,306	2,462	2,355	5,484	4,108	3,281	7,519
77	Medical U. SC	1,371	2,737	2,202	2,880	7,168	9,939	7,288	7,472
78	U. VA all campuses	7,627	12,428	4,891	6,954	7,733	9,026	9,053	7,456
79	Creighton U.	5,094	6,475	6,242	6,084	5,942	7,122	7,710	7,450
80	Columbia U. in the City of NY	1,637	3,018	2,630	3,362	2,885	3,110	5,350	7,420
81	SUNY Albany	1,533	1,426	1,337	622	1,017	1,337	1,554	7,409
82	Tufts U.	5,344	5,560	7,027	8,118	7,726	8,888	8,756	7,392
83	U. TX Health Science Ctr. Houston	9,780	11,106	12,872	13,029	10,945	11,241	12,414	7,373
84	U. of Notre Dame	1,979	2,020	2,920	2,279	3,631	7,076	6,971	7,312
85	U. KY all campuses	11,259	13,668	15,109	11,213	12,933	7,810	6,693	7,299
86	U. Cincinnati all campuses	22,907	24,388	5,989	5,166	6,028	4,549	5,254	6,958
87	Mercer U. all campuses	1,292	1,718	1,280	1,405	1,115	1,986	5,099	6,899
88	U. VT	5,399	5,513	7,112	5,713	6,434	7,157	7,477	6,856
89	MS State U.	5,469	7,470	7,892	7,955	6,744	6,366	6,246	6,788
90	U. Pittsburgh all campuses	9,753	10,436	12,990	14,676	14,817	13,023	4,427	6,639
91	U. NC Chapel Hill	3,311	4,860	5,886	6,835	6,971	6,601	6,551	6,543
92	U. South FL	3,747	5,397	6,236	10,873	11,152	8,215	2,115	6,533
93	U. MO-Rolla	1,575	1,361	2,079	2,543	3,088	4,283	3,540	6,505
94	Rensselaer Polytechnic Institute	9,340	10,974	10,084	6,581	5,928	5,142	6,486	6,429
95	U. IL Chicago	6,947	9,424	9,683	11,010	10,989	9,325	7,014	6,369
96	U. TX Health Science Ctr. San Antonio	9,051	10,845	10,777	10,707	9,677	8,847	7,514	6,268
97	NY Medical C.	1,810	2,461	3,742	3,294	3,626	3,802	5,266	6,253
98	TX Tech U.	5,650	5,549	5,682	5,946	6,236	6,774	7,166	6,224
99	Temple U.	4,690	8,855	1,284	188	5,400	5,030	4,245	6,202
100	U. NH	1,600	3,635	4,395	4,923	7,751	5,964	6,195	6,032
101	U. AR main campus	4,130	5,145	6,198	4,746	4,224	6,370	5,470	5,958
102	U. MA Worcester	2,129	2,631	4,265	3,467	3,317	3,275	4,397	5,904
103	Harvard U.	11,588	10,361	11,790	12,189	14,056	10,215	5,929	5,877
104	U. TX Medical Branch	7,301	5,319	6,366	6,146	6,020	5,737	7,979	5,842
105	Wake Forest U.	16,246	15,546	16,320	15,125	13,330	12,510	12,962	5,787

TABLE 33. Industry-financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004
(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
106	Emory U.	6,700	7,670	7,794	7,513	7,950	9,282	6,416	5,524
107	Case Western Reserve U.	5,662	6,984	6,157	5,890	6,190	5,555	5,339	5,340
108	U. Houston	1,815	1,707	1,762	1,689	1,992	3,784	4,980	5,297
109	Charles R. Drew U. of Medicine and Science	1,153 e	1,153 e	1,046	1,103	1,055	2,941	3,201	5,135
110	FL International U.	543	559	729	1,843	8,397	3,131	4,697	5,101
111	Vanderbilt U.	2,583	4,036	3,730	4,063	3,036	3,302	5,042	5,052
112	U. UT	10,374	10,007	8,951	7,940	6,023	5,819	4,964	5,032
113	U. ND all campuses	2,166	2,357	2,308	2,356	2,458	4,704	5,657	4,918
114	U. MA Amherst	5,778	6,236	5,796	5,535	6,181	5,417	3,838	4,914
115	U. CA, Riverside	1,905	1,929	3,893	3,345	4,227	3,358	5,004	4,807
116	SUNY Stony Brook all campuses	7,119	6,908	7,416	7,567	7,026	5,947	4,950	4,802
117	Dartmouth C.	3,280	2,574	4,544	4,274	4,389	4,425	5,062	4,780
118	Eastern VA Medical School	5,762	7,448	8,561	6,044	6,264	3,926	4,150	4,709
119	MT State U. Bozeman	6,976	7,378 i	7,079	8,523	7,041	6,161	5,601	4,446
120	Georgetown U.	8,421	9,383	7,939	9,795	4,996	4,330	7,601	4,415
121	OK State U. all campuses	3,252	2,887	3,447	4,076	3,688	3,752	4,877	4,326
122	Rochester Institute of Technology	1,395	1,462 e	769	917	2,705	2,633	2,875	4,293
123	U. MO-Columbia	3,777	4,348	3,832	4,007	4,654	5,042	4,802	4,177
124	CA Institute of Technology	3,789	2,001	6,332	8,919	10,225	9,989	4,825	3,918
125	U. MA Lowell	4,920	5,099	6,234	7,204	6,911	5,294	4,920	3,904
126	Auburn U. all campuses	4,644	4,452	3,649	3,917	4,683	4,178	3,849	3,833
127	U. Dayton	5,541	6,285	4,454	5,598	5,138	3,357	3,143	3,781
128	Old Dominion U.	2,357	1,974	2,787	3,533	2,885	3,318	2,919	3,772
129	MI Technological U.	3,819	3,747	3,578	3,834	4,176	2,899	3,369	3,761
130	WV U.	3,719	4,547	5,532	7,185	6,328	6,795	2,274	3,757
131	U. ME	5,609	7,074	2,324	2,899	3,562	4,030	3,323	3,737
132	St. Louis U. all campuses	2,618	2,733	3,113	3,018	3,196	3,161	3,605	3,605 e
133	U. Akron all campuses	3,411	2,767	2,150	3,090	2,557	2,568	3,044	3,475
134	U. NV, Las Vegas	2,058	2,461	2,596	2,131	1,938	1,585	2,085	3,446
135	KS State U.	2,943	3,445	3,746	4,057	4,943	5,659	2,751	3,407
136	UT State U.	3,356	2,744	3,998	7,885	6,595	3,298	3,340	3,338
137	U. AR for Medical Sciences	3,440	3,040	3,889	3,321	2,900	2,676	3,519	3,270
138	CUNY City C.	2,668	950	1,531	1,659	1,602	1,967	1,829	3,183
139	U. MD Biotechnology Institute	927	986	848	915	2,103	3,167	3,087	3,175
140	U. Chicago	1,634	1,684	1,621	1,462	1,746	2,285	3,189	3,098
141	Rockefeller U.	2,577	2,641	2,707	2,775	2,844	2,916	2,988	3,063
142	Medical C. GA	2,578	3,072	3,603	3,609	3,478	2,793	2,687	3,055
143	FL A&M U.	0	0	0	0	0	3,220	2,446	3,047
144	WA State U.	3,138	3,158	3,158	4,579	4,438	3,874	3,666	3,031
145	U. DE	3,361	3,859	4,152	3,757	5,041	5,661	2,982	2,984
146	OH U. all campuses	2,132	1,948	2,843	1,591	2,022	2,729	2,831	2,959
147	Wichita State U.	763	378	1,043	3,500	3,220	2,830	2,322	2,937
148	Wright State U. all campuses	1,409	1,325	1,717	2,968	3,269	3,812	3,570	2,900
149	U. SC all campuses	2,058	2,022	2,176	2,822	4,239	5,050	3,368	2,889
150	TX A&M U. System Health Science Ctr.	NA	NA	NA	2,704	1,050	2,005	1,631	2,876
151	U. Louisville	3,522	4,800	6,100	6,532	911	739	1,442	2,862
152	ID State U.	2,332	1,055	1,915	2,256	2,060	2,554	2,544	2,758
153	OR State U.	832	518	211	141	298	467	353	2,713
154	U. Tulsa	3,913	2,772	3,561	3,179	3,258	3,061	1,655	2,538
155	Embry-Riddle Aeronautical U.	52 i	104	104 e	62 i	522	745	1,898	2,516
156	Polytechnic U.	3,074	2,093	2,135	2,100	2,510	2,825	3,054 i	2,497
157	U. WY	2,226	3,114	3,206	2,941	2,581	2,581 e	2,494	2,494 e
158	U. RI	480 i	442	1,095	1,194	441	353	619	2,474
159	SUNY Binghamton	1,516	2,726	3,584	3,327	2,493	2,654	2,281	2,418

TABLE 33. Industry-financed R&D expenditures at universities and colleges, ranked by FY 2004 expenditures for the first 200 institutions: FY 1997–2004
(Dollars in thousands)

Rank	Institution	1997	1998	1999	2000	2001	2002	2003	2004
160	U. NM all campuses	2,799	3,331	2,940	1,853	1,821	1,427	2,286	2,413
161	Union C. (Schenectady, NY)	95	189	211	228	214	206	146	2,387
162	Western MI U.	1,460	1,600	1,648	1,650	858	1,530	1,764	2,353
163	Drexel U.	5,086	4,057	4,078	3,137	251	795	2,407	2,344
164	U. KS all campuses	8,201	8,281	14,393	15,712	4,155	5,098	2,821	2,295
165	Rice U.	1,779	1,435	1,645	2,858	1,720	1,600	1,426	2,265
166	Desert Research Institute	1,600	1,500	1,226	844	802	1,331	1,938	2,127
167	U. CA, Santa Cruz	1,456	1,518	1,094	1,531	1,004	1,084	1,683	2,098
168	George Washington U.	7,865	7,575	4,001	4,220	5,081	6,456	1,863	2,058
169	Worcester Polytechnic Institute	1,185	1,485	870	1,380	1,059	2,166	2,068	2,041
170	East Carolina U.	1,476	1,996	2,627	3,158	3,853	3,055	2,870	2,029
171	Brigham Young U. all campuses	820 i	751	2,781	2,028	2,384	2,129	1,494	2,013
172	SUNY Health Science Ctr. Brooklyn	4,385	3,045	2,261	1,787	1,787 e	1,934 i	2,124 i	2,003 i
173	Clarkson U.	1,512	1,500	1,226	1,447	1,566	1,566 e	1,219 i	1,992
174	U. TX Arlington	2,641	2,642	2,220	700	787	2,288	967	1,984
175	U. North TX Health Science Ctr. Ft. Worth	258	553	2,389	2,105	1,092	1,016	585	1,954
176	Yeshiva U.	0	0	0	0	0	0	0	1,818
177	U. TX El Paso	522	776	697	941	1,321	2,040	1,729	1,792
178	Brown U.	1,506	1,603	1,795	1,530	1,777	2,172	2,363	1,785
179	Alfred U. all campuses	1,633	1,946	2,414	3,066	3,244	3,249	2,537	1,736
180	FL State U.	1,148	1,159	988	693	892	1,176	1,329	1,658
181	U. Southern MS	708	805	996	984	807	1,905	2,067	1,648
182	U. of the VI	150 e	150 e	96	96 e	167 i	1,070	1,769	1,639
183	CA State Polytechnic U. San Luis Obispo	468 i	272	664	894	1,255	919	1,929	1,625
184	Syracuse U. all campuses	1,910 i	1,418	1,470	6,329	1,420	1,280	1,730	1,611
185	U. NC Charlotte	1,214 i	1,317	924	701	773	1,159	1,705	1,605
186	Northern IL U.	1,201	837	709	1,050	1,356	1,550	1,483	1,512
187	SUNY Upstate Medical U.	195	241	272	263	807	910	1,377	1,468
188	U. NV, Reno	1,806	1,394	1,374	2,557	2,338	1,204	1,570	1,463
189	U. PR Medical Sciences Campus	311	2,548	602	954	1,121	1,495	1,848	1,437
190	U. AL, The	1,345	1,301	1,577	1,941	1,989	2,224	1,150	1,428
191	U. ID	6,551 i	6,496	1,903	2,764	3,634	3,809	3,111	1,415
192	Milwaukee School of Engineering	1,296 i	1,463	1,434	1,472	1,444	1,242	1,254	1,341
193	Stevens Institute of Technology	2,777	2,748	2,424	2,555	0	0 e	0 i	1,313
194	Northern AZ U.	244	1,124	1,315	1,407	1,349	1,256	1,098	1,271
195	Lehigh U.	6,790	6,074	6,669	5,636	5,532	1,680	1,373	1,259
196	Boston C.	205	577	934	1,487	2,050	2,479	1,251	1,251 e
197	George Mason U.	307	210	297	630	874	625	472	1,239
198	U. Toledo	1,241	934	1,245	2,013	2,025	1,988	1,774	1,238
199	Humboldt State U.	0 i	151	869	869 e	989 i	1,119 i	1,191 i	1,207 i
200	GA State U.	826	832	1,075	784	480	988	2,392	1,196
	All other sampled institutions	121,268	129,649	111,359	116,843	131,701	110,629	99,832	64,716

e = estimated.

i = imputed.

NA = not available.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$1 million in industry-financed R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 34. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	42,945,081	2,354,063	25,650,300	1,854,477	3,545,031	782,481	1,669,746	776,956	6,312,027
1	Johns Hopkins U., The ^a	1,375,014	38,585	619,835	101,850	148,780	5,846	3,167	39,812	417,139
2	U. CA, Los Angeles	772,569	15,396	562,755	22,251	59,270	11,982	36,461	6,307	58,147
3	U. MI all campuses	769,126	8,166	441,349	13,893	38,783	10,823	92,602	448	163,062
4	U. WI Madison	763,875	54,127	473,733	18,260	51,853	29,329	41,686	27	94,860
5	U. CA, San Francisco	728,321	0	698,712	0	29,609	0	0	0	0
6	U. WA	713,976	78,845	481,620	5,178	34,917	8,863	34,519	0	70,034
7	U. CA, San Diego	708,690	122,387	359,714	88,614	45,849	7,369	12,825	800	71,132
8	Stanford U.	671,046	17,147	373,952	24,193	89,041	8,602	10,895	0	147,216
9	PA State U. all campuses	600,139	41,057	198,726	39,923	59,831	18,626	25,994	6,082	209,900
10	U. PA	596,756	704	480,121	11,068	27,360	5,122	38,184	8,248	25,949
11	Cornell U. all campuses	575,554	5,222	356,441	30,837	86,225	5,388	22,395	0	69,046
12	MA Institute of Technology	543,448	28,648	130,170	49,579	104,868	1,568	6,195	21,647	200,773
13	U. CA, Berkeley	525,598	9,093	178,073	9,179	97,862	11,531	49,840	18,625	151,395
14	Duke U.	520,871	11,566	427,955	6,537	17,878	1,939	26,865	0	28,131
15	OH State U. all campuses	518,088	11,398	288,853	30,224	31,277	6,752	32,793	5,833	110,958
16	U. MN all campuses	515,061	12,232	372,490	19,086	25,874	12,864	20,208	0	52,307
17	U. CA, Davis	511,757	26,891	381,707	6,223	24,424	1,625	17,683	2,750	50,454
18	U. IL Urbana-Champaign	506,041	41,152	131,495	117,271	50,152	14,265	27,373	4,301	120,032
19	Washington U. St. Louis	489,565	4,893	443,901	5,915	13,905	4,475	4,049	0	12,427
20	U. CO all campuses	482,992	86,142	272,329	10,151	57,472	9,908	9,923	1,738	35,329
21	U. AZ	478,680	11,971	255,588	10,645	124,566	4,136	18,212	20	53,542
22	Baylor C. of Medicine	476,075	0	476,075	0	0	0	0	0	0
23	Columbia U. in the City of NY	468,484	54,163	322,159	10,576	36,884	3,865	10,196	5,481	25,160
24	U. Pittsburgh all campuses	461,693	654	396,405	4,990	20,164	7,488	4,986	9,156	17,850
25	TX A&M U. all campuses	456,809	66,724	167,704	16,384	36,942	2,621	7,937	3,033	155,464
26	Harvard U.	454,495	15,690	351,469	3,260	41,824	8,245	17,914	0	16,093
27	U. FL	447,146	7,879	311,513	7,165	33,960	8,952	10,482	0	67,195
28	U. Southern CA	426,665	18,687	233,541	89,524	11,984	4,615	11,347	2,113	54,854
29	Yale U.	422,828	3,522	366,999	6,356	20,136	8,249	5,496	0	12,070
30	U. NC Chapel Hill	416,727	23,761	321,080	10,281	21,524	6,065	34,016	0	0
31	GA Institute of Technology all campuses	410,799	15,046	16,907	61,006	26,380	3,236	11,010	1,663	275,551
32	IN U. all campuses	384,168	5,458	233,402	16,367	51,497	12,234	32,037	29,991	3,182
33	Purdue U. all campuses	365,779	4,624	163,164	21,109	19,563	5,494	16,783	10,193	124,849
34	Northwestern U.	358,947	911	250,795	4,965	27,063	4,098	9,450	6,368	55,297
35	U. TX M. D. Anderson Cancer Ctr.	353,034	0	317,612	14,950	8,465	7,966	463	0	3,578
36	U. TX Austin	343,886	30,915	44,309	43,713	75,345	7,560	18,156	4,587	119,301
37	LA State U. all campuses	341,634	30,827	223,668	4,847	20,325	1,057	10,171	7,363	43,376

TABLE 34. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
38	U. MD College Park	325,648	11,158	58,758	33,320	54,976	4,798	79,872	0	82,766
39	MI State U.	325,438	1,409	203,707	7,784	52,277	6,472	27,952	909	24,928
40	Vanderbilt U.	318,335	226	250,014	1,113	12,777	9,639	5,330	8,250	30,986
41	U. MD Baltimore	317,293	0	317,293	0	0	0	0	0	0
42	U. TX Southwestern Medical Ctr. Dallas	314,403	0	314,403	0	0	0	0	0	0
43	U. GA	313,160	12,891	218,663	8,990	12,733	14,005	39,138	0	6,740
44	U. IA	312,914	2,016	247,550	3,367	16,081	5,477	5,240	441	32,742
45	U. Rochester	312,303	1,223	218,269	3,939	11,320	14,732	643	1,713	60,464
46	Emory U.	311,685	100	298,183	497	8,774	2,461	1,670	0	0
47	U. AL Birmingham, The	310,950	0	288,286	1,310	3,100	7,514	983	0	9,757
48	U. IL Chicago	307,699	3,265	229,586	12,820	13,385	6,566	14,592	9,324	18,161
49	U. NE all campuses	299,090	5,004	202,657	8,900	13,548	9,650	14,008	17,214	28,109
50	U. KY all campuses	297,610	3,549	206,585	8,649	9,933	5,099	7,889	12,200	43,706
51	Rutgers, The State U. NJ all campuses	296,534	28,359	144,974	18,165	32,900	11,378	25,450	1,470	33,838
52	NC State U.	292,720	15,594	145,675	19,061	20,885	1	7,265	4,008	80,231
53	U. Cincinnati all campuses	276,326	689	234,726	683	7,070	1,390	3,340	1,613	26,815
54	U. Chicago	272,390	4,902	198,802	13,204	45,684	6,346	3,328	0	124
55	VA Polytechnic Institute and State U.	268,752	10,127	115,882	17,190	14,460	2,813	6,501	12	101,767
56	CA Institute of Technology	261,098	13,136	44,270	13,098	139,631	0	1,723	9,760	39,480
57	NY U.	259,333	742	209,064	15,201	7,725	14,903	9,118	2,580	0
58	SUNY Buffalo all campuses	258,952	1,734	185,181	10,865	16,751	4,749	4,566	712	34,394
59	U. CA, Irvine	257,024	6,045	171,927	14,499	22,364	3,508	9,303	614	28,764
60	OR Health & Science U.	254,447	0	204,065	17,805	0	10,047	0	22,530	0
61	Boston U.	240,867	3,890	164,576	4,565	24,437	6,622	1,085	12,480	23,212
62	U. South FL	240,021	28,375	169,407	162	5,006	3,164	3,567	448	29,892
63	U. UT	237,159	5,844	160,288	18,829	18,915	2,626	2,596	0	28,061
64	U. HI Manoa	236,368	54,891	99,014	18,189	22,653	4,148	7,407	21,382	8,684
65	Case Western Reserve U.	231,800	738	179,087	658	8,937	680	1,432	0	40,268
66	U. TN all campuses	228,760	4,970	131,621	13,713	13,636	319	11,006	12,267	41,228
67	U. VA all campuses	228,532	3,962	155,682	8,015	17,037	7,287	1,501	701	34,347
68	Wayne State U.	225,475	108	182,077	2,710	15,325	3,533	6,425	859	14,438
69	U. MO-Columbia	217,550	1,945	165,113	2,841	4,850	7,273	14,648	0	20,880
70	CO State U.	214,888	71,410	96,375	4,577	10,230	3,784	3,647	3,041	21,824
71	SUNY Stony Brook all campuses	213,547	21,961	116,965	11,568	29,737	3,472	4,150	812	24,882
72	Mt. Sinai School of Medicine	212,786	0	212,786	0	0	0	0	0	0
73	IA State U.	211,996	5,768	103,733	14,475	10,306	798	17,597	11,021	48,298
74	U. CT all campuses	211,236	8,412	150,176	3,729	7,247	12,908	6,864	684	21,216
75	U. of Medicine and Dentistry NJ	209,134	0	209,134	0	0	0	0	0	0

TABLE 34. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
76	Carnegie Mellon U.	205,149	219	7,028	103,519	17,471	7,637	11,799	1,484	55,992
77	SUNY Albany	203,977	7,391	90,232	4,262	30,653	1,797	13,158	0	56,484
78	U. Miami	194,446	44,320	131,424	305	2,526	10,194	2,524	0	3,153
79	Rockefeller U.	192,222	0	177,963	7,247	7,012	0	0	0	0
80	MS State U.	191,352	4,815	94,584	11,625	10,566	2,099	6,580	5,950	55,133
81	Princeton U.	188,373	17,067	38,198	12,298	31,297	9,863	27,524	0	52,126
82	Yeshiva U.	183,253	0	183,253	0	0	0	0	0	0
83	U. KS all campuses	181,192	14,438	128,426	1,384	7,817	944	9,314	3,047	15,822
84	Dartmouth C.	173,266	1,117	120,511	4,827	5,532	6,070	1,066	11,950	22,193
85	WA State U.	171,735	3,040	109,290	1,128	15,268	1,955	11,317	5,181	24,556
86	OR State U.	170,286	37,912	100,349	3,721	4,034	69	2,636	1,696	19,869
87	U. NM all campuses	170,085	3,988	90,392	4,891	8,069	5,665	12,512	21,588	22,980
88	U. MA Worcester	169,090	0	169,090	0	0	0	0	0	0
89	FL State U.	168,132	21,459	32,559	10,475	50,839	8,574	15,029	255	28,942
90	U. TX Medical Branch	166,798	0	164,172	0	0	0	0	0	2,626
91	Medical U. SC	163,179	0	163,179	0	0	0	0	0	0
92	Clemson U.	158,585	5	49,788	3,776	10,835	908	11,158	18,251	63,864
93	U. OK all campuses	158,578	29,639	87,944	2,337	13,057	1,293	8,549	0	15,759
94	UT State U.	153,616	9,007	45,921	1,242	4,187	3,925	2,726	8,612	77,996
95	AZ State U. main campus	152,164	11,197	29,588	7,055	21,447	8,694	10,878	7,657	55,648
96	U. CA, Santa Barbara	151,325	26,527	4,586	13,125	25,236	3,089	11,807	8,145	58,810
97	U. TX Health Science Ctr. Houston	147,328	0	147,328	0	0	0	0	0	0
98	Medical C. WI	139,235	0	139,235	0	0	0	0	0	0
99	U. TX Health Science Ctr. San Antonio	137,039	0	137,039	0	0	0	0	0	0
100	Wake Forest U.	133,753	0	130,677	1,105	1,856	0	0	115	0
101	VA Commonwealth U.	132,839	648	113,794	150	5,178	4,875	1,290	0	6,904
102	Tulane U.	132,784	897	115,925	2,013	2,942	449	3,653	421	6,484
103	U. AK Fairbanks all campuses	132,212	67,891	29,193	12,616	1,919	0	1,206	5,112	14,275
104	Brown U.	130,741	6,235	68,879	13,558	12,924	2,605	7,156	0	19,384
105	Tufts U.	126,432	856	101,374	1,640	5,374	4,042	5,956	0	7,190
106	Georgetown U.	126,320	0	111,732	356	2,806	777	10,649	0	0
107	Auburn U. all campuses	125,705	1,636	79,811	464	6,944	665	2,223	3,575	30,387
108	U. SC all campuses	121,671	20,720	38,926	4,091	15,838	6,162	7,715	2,433	25,786
109	U. MA Amherst	120,788	3,387	34,791	18,674	32,108	5,077	3,010	696	23,045
110	KS State U.	119,306	526	78,673	3,948	11,048	687	3,844	2,754	17,826
111	U. VT	114,120	429	99,972	1,515	1,691	848	232	6,915	2,518
112	Woods Hole Oceanographic Institution	114,087	96,548	0	0	0	0	0	0	17,539
113	Thomas Jefferson U.	112,078	0	112,078	0	0	0	0	0	0
114	U. Louisville	110,653	794	92,381	555	2,298	3,163	1,901	331	9,230

TABLE 34. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
115	U. CA, Riverside	110,627	11,823	58,891	3,594	7,882	1,950	8,661	3,744	14,082
116	U. DE	109,985	12,226	25,244	2,823	16,837	3,328	6,313	7,001	36,213
117	WV U.	108,002	7,219	61,925	1,232	5,294	277	3,308	115	28,632
118	U. NH	103,935	45,307	26,522	403	4,540	338	4,299	1,606	20,920
119	OK State U. all campuses	103,915	1,737	58,529	954	8,524	418	7,519	6,037	20,197
120	George Washington U.	103,473	375	42,195	28,287	3,041	1,125	11,472	148	16,830
121	U. Central FL	103,261	13,747	9,955	509	27,738	2,016	7,759	21,281	20,256
122	ND State U. all campuses	102,115	297	56,857	2,364	14,277	1,333	9,436	6,912	10,639
123	MT State U. Bozeman	97,696	1,184	58,661	1,294	13,947	0	3,014	7,620	11,976
124	U. CA, Santa Cruz	94,297	18,414	13,693	2,855	37,630	1,096	3,666	66	16,877
125	NM State U. all campuses	93,329	833	25,766	2,865	9,456	1,026	2,551	250	50,582
126	U. ID	93,246	4,887	55,187	1,591	3,150	201	2,381	13,234	12,615
127	U. CA Office of the President	90,233	7,639	56,382	2,164	17,713	0	1,833	4,194	308
128	Uniformed Services U. of the Health Sciences	89,999	0	89,850	0	0	149	0	0	0
129	Rush U.	89,254	0	86,802	0	0	2,452	0	0	0
130	U. AR main campus	88,918	3,248	56,053	1,116	10,107	335	3,516	0	14,543
131	U. NV, Reno	83,552	8,072	48,236	1,318	7,786	509	1,040	8,010	8,581
132	U. ME	81,216	22,830	31,107	1,687	6,551	1,222	4,772	1,323	11,724
133	U. MS all campuses	79,867	0	52,366	224	17,555	201	1,700	429	7,392
134	Drexel U.	76,120	0	35,854	1,573	2,958	1,044	31	0	34,660
135	Temple U.	76,055	224	53,739	815	3,597	10,338	3,459	0	3,883
136	NJ Institute of Technology	74,998	0	0	6,430	8,139	0	196	17,945	42,288
137	U. of Notre Dame	74,255	0	12,420	3,577	19,271	3,932	4,531	14,309	16,215
138	U. AR for Medical Sciences	74,063	0	74,063	0	0	0	0	0	0
139	San Diego State U.	66,710	2,676	25,707	1,660	4,156	9,020	5,004	7,657	10,830
140	Naval Postgraduate School	65,092 i	11,548 i	0 i	18,708 i	3,436 i	0 i	13,971 i	7,138 i	10,291 i
141	TX A&M U. System Health Science Ctr.	64,170	728	61,405	0	0	108	0	0	1,929
142	U. Dayton	63,734	77	263	349	265	11	6	0	62,763
143	FL International U.	63,545	16,191	15,633	3,756	6,496	2,597	13,846	652	4,374
144	U. Houston	60,962	4,289	15,760	5,517	8,401	5,618	2,403	0	18,974
145	U. RI	60,947	25,824	18,449	591	859	3,662	98	6,123	5,341
146	Rice U.	60,872	1,859	9,663	12,821	17,436	910	869	27	17,287
147	U. WY	60,054 e	8,076 e	27,752 e	440 e	5,271 e	1,592 e	1,800 e	8,559 e	6,564 e
148	Medical C. GA	58,808	0	58,808	0	0	0	0	0	0
149	Syracuse U. all campuses	58,276	1,130	3,772	6,734	5,544	3,155	7,908	17,887	12,146
150	TX Tech U.	57,592	9,682	16,059	1,183	6,550	432	7,057	311	16,318
151	Rensselaer Polytechnic Institute	56,907	2,689	956	3,839	6,132	0	1,360	0	41,931
152	U. LA Lafayette	55,218	347	35,099	5,983	1,055	344	958	7,147	4,285

TABLE 34. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
153	Southern IL U. Carbondale	53,953	1,568	32,716	767	1,744	568	1,828	2,637	12,125
154	Charles R. Drew U. of Medicine and Science	51,994	0	51,994	0	0	0	0	0	0
155	U. OR	51,956	1,975	24,593	4,255	8,280	8,135	4,192	0	526
156	Brandeis U.	51,498	0	27,311	1,859	6,363	3,208	12,757	0	0
157	U. MT, The	51,078	684	33,350	1,675	3,739	776	5,108	5,653	93
158	U. ND all campuses	49,595	7,147	15,835	230	1,081	70	40	2,748	22,444
159	C. of William and Mary all campuses	49,420	32,640	1,981	1,430	10,957	464	1,948	0	0
160	U. MD Baltimore County	49,403	17,943	3,521	5,899	9,354	1,503	4,290	3,925	2,968
161	U. AL Huntsville, The	49,259	6,796	2,105	8,630	9,831	18	467	77	21,335
162	U. MD Biotechnology Institute	48,278	8,756	39,522	0	0	0	0	0	0
163	Northeastern U.	47,283	0	8,253	2,633	14,081	3,514	2,665	0	16,137
164	George Mason U.	46,210	9,951	6,908	8,456	782	2,751	9,402	0	7,960
165	U. NV, Las Vegas	45,429	17,432 i	6,107 i	1,959 i	7,082 i	0 i	5,939 i	0 i	6,910 i
166	GA State U.	45,415	397	14,509	1,712	6,596	11,634	10,447	120	0
167	U. Memphis, The	44,120	4,700	6,975	4,666	1,871	11,065	9,193	2,041	3,609
168	San Francisco State U.	42,903	2,849 i	11,398 i	0 i	14,398 i	0 i	0 i	5,702 i	8,556 i
169	Howard U.	41,404	0	27,232	1,537	4,449	2,748	377	142	4,919
170	U. MO-Rolla	41,242	7,183	661	337	4,865	19	55	0	28,122
171	St. Louis U. all campuses	41,189 e	819 e	39,869 e	161 e	85 e	60 e	102 e	93 e	0 e
172	SUNY Health Science Ctr. Brooklyn	40,985 i	0 i	40,985 i	0 i	0 i	0 i	0 i	0 i	0 i
173	U. MD Ctr. for Environmental Science	39,631	39,631	0	0	0	0	0	0	0
174	OH U. all campuses	38,704	1,159	9,623	354	6,977	1,490	1,175	0	17,926
175	NM Institute of Mining and Technology	38,476	10,031	1,106	363	2,390	2	0	6,561	18,023
176	Wright State U. all campuses	38,052	478	21,437	5,251	3,011	1,966	82	83	5,744
177	Loyola U. Chicago	36,134	8	34,145	156	797	707	321	0	0
178	U. Southern MS	35,908	13,336	6,545	132	8,320	149	1,104	3,828	2,494
179	MI Technological U.	35,670	6,820	809	1,952	2,159	0	538	880	22,512
180	CUNY Hunter C.	34,931	4,223	12,552	402	7,673	6,133	3,791	157	0
181	Old Dominion U.	34,819	3,826	2,256	1,948	2,469	770	869	0	22,681
182	Desert Research Institute	34,783	26,318	0	0	0	0	0	8,465	0
183	U. PR Medical Sciences Campus	34,092	0	34,092	0	0	0	0	0	0
184	U. AL, The	33,835	1,612	3,441	2,743	3,481	2,821	2,377	40	17,320
185	Eastern VA Medical School	33,798	0	33,798	0	0	0	0	0	0
186	NY Medical C.	33,521	0	33,521	0	0	0	0	0	0
187	Morehouse School of Medicine	33,317	0	33,317	0	0	0	0	0	0
188	Boston C.	32,158 e	514 e	4,395 e	12,544 e	8,225 e	870 e	5,610 e	0 e	0 e
189	SUNY Upstate Medical U.	32,090	0	32,090	0	0	0	0	0	0
190	Lehigh U.	32,048	1,824	1,968	1,111	5,802	187	47	0	21,109

TABLE 34. R&D expenditures at universities and colleges, ranked by all R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
191	U. MO-Kansas City	31,968	0	24,032	488	1,867	2,230	417	0	2,934
192	Hampton U.	31,645	24,587	2,977	230	2,447	0	0	0	1,404
193	Jackson State U.	31,641	3,757	8,565	4,414	5,014	1,240	343	7,637	671
194	FL A&M U.	31,408	2,512	21,046	625	1,980	67	1	277	4,900
195	U. TX Dallas	31,274	3,224	7,198	3,123	7,770	461	637	494	8,367
196	U.S. Air Force Academy	29,998	0	742	4,373	2,926	474	849	0	20,634
197	Wichita State U.	29,948	35	1,747	369	2,774	1,094	479	0	23,450
198	Loma Linda U.	29,651	0	29,648	0	0	0	3	0	0
199	SD State U.	29,564	440	23,021	90	454	1	2,922	253	2,383
200	San Jose State U.	29,268	11,858	483	1,356	2,926	9,056	115	990	2,484
	All other sampled institutions	1,984,384	160,218	709,138	112,228	303,103	72,445	142,958	84,629	399,665

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$670 million in total R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 35. Federally financed R&D expenditures at universities and colleges, ranked by federal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	27,379,233	1,595,993	16,413,267	1,347,250	2,566,825	586,800	695,436	271,331	3,902,331
1	Johns Hopkins U., The ^a	1,229,426	36,250	511,573	100,610	146,179	5,218	2,151	16,715	410,730
2	U. WA	625,218	71,685	424,433	4,798	32,044	8,359	24,775	0	59,124
3	Stanford U.	541,667	12,383	296,305	21,501	81,910	6,864	4,217	0	118,487
4	U. MI all campuses	521,339	4,886	307,794	6,991	26,627	9,649	49,887	44	115,461
5	U. CA, San Diego	465,629	79,643	236,203	68,279	31,947	5,889	4,441	0	39,227
6	U. CA, Los Angeles	461,145	12,681	330,141	16,865	43,093	8,990	7,426	2,301	39,648
7	U. PA	435,343	128	359,857	8,738	23,112	4,889	17,765	3,446	17,408
8	U. WI Madison	434,423	43,331	237,807	13,650	35,815	22,945	19,753	0	61,122
9	MA Institute of Technology	427,552	24,499	114,695	31,822	102,417	1,380	1,898	6,554	144,287
10	U. CA, San Francisco	418,944	0	396,729	0	22,215	0	0	0	0
11	U. CO all campuses	414,986	79,182	228,915	8,782	51,571	8,629	7,919	1,506	28,482
12	Columbia U. in the City of NY	406,576	52,206	279,442	10,012	32,918	3,756	6,015	1,495	20,732
13	Harvard U.	399,764	13,775	313,278	3,239	38,678	7,769	8,076	0	14,949
14	U. Pittsburgh all campuses	394,444	620	338,420	4,440	17,663	6,997	3,939	9,156	13,209
15	Washington U. St. Louis	371,043	2,487	339,307	4,352	10,189	3,030	3,348	0	8,330
16	PA State U. all campuses	347,996	22,123	91,336	31,434	41,873	11,985	9,852	1,624	137,769
17	Duke U.	347,896	6,757	278,054	5,882	15,267	1,209	19,525	0	21,202
18	Cornell U. all campuses	339,107	3,184	209,798	18,311	56,657	2,462	7,247	0	41,448
19	Yale U.	330,837	2,949	291,471	5,162	16,383	5,666	979	0	8,227
20	Baylor C. of Medicine	312,669	0	312,669	0	0	0	0	0	0
21	U. Southern CA	312,589	14,623	161,464	83,264	6,303	3,379	4,397	715	38,444
22	U. MN all campuses	308,369	7,028	221,414	14,429	19,610	8,830	7,956	0	29,102
23	U. NC Chapel Hill	304,204	12,793	238,750	7,332	15,909	5,359	24,061	0	0
24	OH State U. all campuses	284,675	7,192	167,498	11,066	20,759	5,020	23,454	1,407	48,279
25	U. AZ	283,956	7,401	150,809	8,337	74,058	2,960	9,161	0	31,230
26	U. IL Urbana-Champaign	275,896	16,595	58,990	78,518	34,848	8,754	6,155	2,338	69,698
27	U. CA, Berkeley	268,830	4,907	90,288	7,400	75,959	7,944	6,724	4,732	70,876
28	U. AL Birmingham, The	261,664	0	242,437	1,110	2,184	6,920	904	0	8,109
29	Vanderbilt U.	261,484	155	211,056	1,043	11,132	7,655	3,834	477	26,132
30	CA Institute of Technology	244,187	11,340	42,498	13,098	135,480	0	1,662	3,173	36,936
31	Emory U.	243,248	76	232,355	482	7,728	2,163	444	0	0
32	GA Institute of Technology all campuses	237,483	7,133	8,149	41,696	15,064	1,833	2,812	818	159,978
33	U. TX Austin	235,281	12,434	33,646	36,386	55,000	6,931	10,070	3,631	77,183
34	U. Rochester	231,193	1,007	152,592	3,613	9,926	10,461	550	1,174	51,870
35	Northwestern U.	230,593	733	156,686	3,797	20,551	3,312	3,005	3,019	39,490
36	U. Chicago	229,102	4,748	164,749	12,785	37,518	5,926	3,256	0	120
37	U. CA, Davis	221,937	10,397	167,676	4,403	14,688	797	2,191	1,001	20,784

TABLE 35. Federally financed R&D expenditures at universities and colleges, ranked by federal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
38	U. FL	221,898	5,121	133,266	5,737	24,770	7,871	1,745	0	43,388
39	Boston U.	219,054	3,452	146,767	4,296	23,839	6,601	578	12,229	21,292
40	U. IA	209,865	756	173,775	2,696	13,064	5,056	920	3	13,595
41	OR Health & Science U.	206,219	0	180,295	16,007	0	9,917	0	0	0
42	U. TX Southwestern Medical Ctr. Dallas	200,888	0	200,888	0	0	0	0	0	0
43	Case Western Reserve U.	195,525	738	158,535	658	7,635	632	1,374	0	25,953
44	U. Cincinnati all campuses	194,965	114	176,816	156	3,145	190	1,076	11	13,457
45	U. IL Chicago	192,825	1,697	148,208	9,115	10,035	4,154	6,697	3,593	9,326
46	U. VA all campuses	188,121	3,473	129,388	7,181	15,063	6,430	1,158	606	24,822
47	U. HI Manoa	187,035	44,615	71,092	18,154	20,193	4,079	5,483	15,910	7,509
48	NY U.	181,441	83	143,913	12,945	6,523	12,179	4,567	1,231	0
49	U. MD College Park	180,943	9,607	25,470	18,710	41,245	4,634	32,131	0	49,146
50	TX A&M U. all campuses	173,705	43,447	49,403	11,354	20,316	1,820	2,100	44	45,221
51	Carnegie Mellon U.	172,858	219	6,243	93,555	10,135	6,850	9,376	241	46,239
52	Mt. Sinai School of Medicine	170,757	0	170,757	0	0	0	0	0	0
53	IN U. all campuses	166,913	1,837	124,872	9,230	15,566	8,089	5,966	357	996
54	U. UT	161,119	4,180	114,204	11,958	13,352	2,257	223	0	14,945
55	Yeshiva U.	151,520	0	151,520	0	0	0	0	0	0
56	U. CA, Irvine	150,995	3,802	106,209	8,208	13,910	2,122	3,467	0	13,277
57	U. TX M. D. Anderson Cancer Ctr.	150,529	0	132,412	4,799	5,586	4,984	157	0	2,591
58	CO State U.	145,213	57,302	58,376	3,394	7,963	3,166	1,941	192	12,879
59	Purdue U. all campuses	144,090	3,181	62,338	9,780	13,736	3,748	5,103	2,751	43,453
60	SUNY Buffalo all campuses	143,865	774	102,145	6,006	9,446	2,510	1,439	402	21,143
61	MI State U.	143,473	846	78,853	5,060	33,638	3,832	12,096	240	8,908
62	U. Miami	141,943	38,590	86,590	305	2,435	9,737	2,337	0	1,949
63	U. MD Baltimore	141,221	0	141,221	0	0	0	0	0	0
64	U. KY all campuses	129,887	1,534	90,603	6,230	5,834	3,768	2,091	1,966	17,861
65	Rutgers, The State U. NJ all campuses	128,655	12,875	63,527	8,281	19,613	5,318	3,916	0	15,125
66	U. CT all campuses	127,609	5,981	86,915	2,749	5,438	10,223	3,447	130	12,726
67	U. South FL	126,906	21,631	82,675	78	2,539	2,327	1,477	288	15,891
68	U. MA Worcester	126,162	0	126,162	0	0	0	0	0	0
69	SUNY Stony Brook all campuses	123,124	14,102	66,377	7,149	19,977	2,682	1,594	812	10,431
70	Dartmouth C.	123,109	692	86,002	3,089	3,299	3,907	605	8,823	16,692
71	U. of Medicine and Dentistry NJ	121,812	0	121,812	0	0	0	0	0	0
72	Wake Forest U.	120,075	0	117,586	1,021	1,468	0	0	0	0
73	U. NE all campuses	115,833	3,086	81,002	4,696	7,460	5,539	4,335	1,498	8,217
74	Wayne State U.	114,700	36	94,812	1,535	8,772	2,214	1,490	0	5,841
75	U. NM all campuses	112,299	3,288	60,805	4,578	7,084	4,631	8,451	4,934	18,528

TABLE 35. Federally financed R&D expenditures at universities and colleges, ranked by federal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
76	LA State U. all campuses	112,169	8,281	75,608	955	12,687	209	1,706	0	12,723
77	Princeton U.	111,435	9,982	26,212	7,262	21,732	7,519	5,755	0	32,973
78	U. TN all campuses	109,357	2,227	69,659	7,324	9,606	232	1,423	1,397	17,489
79	UT State U.	107,945	2,891	22,815	769	3,298	2,379	963	1,219	73,611
80	U. TX Health Science Ctr. Houston	106,737	0	106,737	0	0	0	0	0	0
81	OR State U.	104,276	32,270	49,609	3,131	2,849	62	1,146	1,421	13,788
82	NC State U.	103,586	5,417	40,907	10,108	9,439	0	2,244	1,103	34,368
83	Medical U. SC	103,494	0	103,494	0	0	0	0	0	0
84	FL State U.	102,967	13,833	20,576	6,094	27,702	4,880	6,833	0	23,049
85	U. TX Medical Branch	102,491	0	101,327	0	0	0	0	0	1,164
86	U. KS all campuses	101,920	4,109	77,525	1,008	5,739	784	4,565	784	7,406
87	Medical C. WI	100,547	0	100,547	0	0	0	0	0	0
88	Woods Hole Oceanographic Institution	100,456	83,639	0	0	0	0	0	0	16,817
89	U. GA	96,348	3,914	72,512	1,947	4,617	8,130	4,093	0	1,135
90	Georgetown U.	95,852	0	91,419	346	2,541	743	803	0	0
91	VA Polytechnic Institute and State U.	95,669	5,445	36,016	4,010	7,526	2,014	1,580	4	39,074
92	SUNY Albany	94,712	4,024	79,427	2,233	1,930	1,079	4,886	0	1,133
93	Tufts U.	92,997	303	79,210	1,065	4,746	2,104	213	0	5,356
94	Tulane U.	92,331	620	79,785	1,647	2,209	265	2,740	0	5,065
95	Thomas Jefferson U.	92,296	0	92,296	0	0	0	0	0	0
96	U. CA, Santa Barbara	92,248	12,743	3,653	9,432	18,087	2,560	5,169	4,474	36,130
97	IA State U.	92,235	3,857	40,605	5,735	6,255	217	10,522	334	24,710
98	U. MO-Columbia	90,304	896	67,833	2,111	2,702	4,941	5,214	0	6,607
99	U. TX Health Science Ctr. San Antonio	89,662	0	89,662	0	0	0	0	0	0
100	VA Commonwealth U.	89,066	490	76,262	66	3,779	3,041	796	0	4,632
101	Brown U.	84,126	3,730	48,819	8,302	7,333	1,558	1,426	0	12,958
102	Rockefeller U.	82,535	0	76,439	1,546	4,550	0	0	0	0
103	MS State U.	82,205	3,706	34,637	4,671	4,213	1,142	2,614	4,838	26,384
104	U. OK all campuses	81,048	12,273	52,107	899	5,986	821	2,412	0	6,550
105	AZ State U. main campus	79,877	10,980	15,116	4,437	11,252	6,872	3,265	2,034	25,921
106	U. VT	79,015	294	68,844	1,006	1,375	629	127	5,380	1,360
107	George Washington U.	78,192	283	27,633	26,856	2,545	1,110	4,564	0	15,201
108	U. DE	76,583	9,200	12,661	2,351	13,825	2,853	3,675	4,312	27,706
109	NM State U. all campuses	76,396	484	13,069	2,811	8,144	912	1,969	250	48,757
110	U. AK Fairbanks all campuses	75,269	40,062	13,328	10,354	206	0	329	3,684	7,306
111	WA State U.	74,944	1,491	42,729	643	10,332	1,494	3,018	1,792	13,445
112	U. SC all campuses	71,856	11,290	24,503	2,405	8,480	4,685	4,068	359	16,066
113	U. NH	67,917	38,809	9,175	349	3,645	335	2,802	34	12,768
114	U. MA Amherst	65,452	1,660	19,824	12,079	19,128	3,442	757	9	8,553

TABLE 35. Federally financed R&D expenditures at universities and colleges, ranked by federal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
115	Naval Postgraduate School	64,667 i	11,375 i	0 i	18,662 i	3,402 i	0 i	13,901 i	7,126 i	10,201 i
116	Uniformed Services U. of the Health Sciences	62,408	0	62,301	0	0	107	0	0	0
117	Clemson U.	61,065	0	16,590	1,203	5,301	637	4,975	261	32,098
118	WV U.	60,819	4,349	31,821	663	3,614	128	1,435	10	18,799
119	U. MS all campuses	59,787	0	36,568	177	15,358	59	1,022	260	6,343
120	MT State U. Bozeman	58,874	1,001	29,343	1,055	12,397	0	1,678	4,619	8,781
121	U. Dayton	56,647	65	136	250	153	0	0	0	56,043
122	KS State U.	56,088	280	33,245	3,130	9,361	276	1,382	285	8,129
123	Drexel U.	54,963	0	26,811	1,214	2,327	918	0	0	23,693
124	U. Louisville	54,476	360	44,572	321	1,692	2,512	713	0	4,306
125	U. AR for Medical Sciences	53,249	0	53,249	0	0	0	0	0	0
126	U. CA, Santa Cruz	53,196	11,378	6,829	1,911	18,733	576	491	0	13,278
127	Rush U.	51,706	0	50,023	0	0	1,683	0	0	0
128	Rice U.	51,157	1,741	8,662	11,640	14,824	908	329	0	13,053
129	U. NV, Reno	50,787	5,257	30,404	1,077	7,315	466	239	0	6,029
130	Temple U.	50,456	183	36,890	535	2,705	6,738	1,312	0	2,093
131	Auburn U. all campuses	49,565	472	22,419	187	5,395	577	807	3,164	16,544
132	U. of Notre Dame	48,650	0	10,003	3,342	17,370	3,615	1,319	1,201	11,800
133	U. RI	48,590	22,958	14,454	530	852	2,891	59	2,666	4,180
134	U. ID	48,565	3,052	30,429	1,293	2,124	101	867	1,801	8,898
135	FL International U.	47,913	12,208	11,787	2,832	4,898	1,958	10,440	492	3,298
136	ND State U. all campuses	45,375	146	11,538	2,076	13,227	1,084	6,627	2,125	8,552
137	U. Central FL	44,020	6,209	5,345	186	15,123	1,969	738	4,641	9,809
138	U. OR	43,634	1,766	20,356	4,070	7,071	7,496	2,757	0	118
139	OK State U. all campuses	43,345	647	18,964	361	5,912	38	2,324	3,960	11,139
140	Syracuse U. all campuses	43,162	793	3,579	4,264	5,485	3,135	7,012	10,367	8,527
141	U. CA, Riverside	40,981	4,238	19,122	2,595	5,936	1,770	3,961	6	3,353
142	Charles R. Drew U. of Medicine and Science	40,430	0	40,430	0	0	0	0	0	0
143	Howard U.	40,086	0	26,544	1,532	4,334	2,748	330	66	4,532
144	George Mason U.	39,758	9,713	5,330	8,023	697	1,610	6,571	0	7,814
145	U. AL Huntsville, The	39,607	5,117	1,257	7,438	7,705	10	374	3	17,703
146	Brandeis U.	38,041	0	22,200	1,547	5,321	2,709	6,264	0	0
147	U. MD Baltimore County	37,548	17,575	3,402	3,876	8,721	596	1,396	0	1,982
148	San Francisco State U.	37,056	2,849 i	11,398 i	0 i	8,551 i	0 i	0 i	5,702 i	8,556 i
149	St. Louis U. all campuses	36,989 e	786 e	35,890 e	161 e	57 e	22 e	73 e	0 e	0 e
150	Rensselaer Polytechnic Institute	36,651	1,917	841	2,936	4,241	0	1,114	0	25,602
151	U. ME	36,513	12,438	10,929	620	4,130	961	2,460	0	4,975
152	U. ND all campuses	36,349	5,948	13,904	160	792	0	14	340	15,191

TABLE 35. Federally financed R&D expenditures at universities and colleges, ranked by federal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
153	Medical C. GA	35,841	0	35,841	0	0	0	0	0	0
154	U. MT, The	34,478	572	25,293	1,464	2,943	681	3,432	0	93
155	U. Houston	34,468	2,399	11,651	3,224	4,254	4,632	1,537	0	6,771
156	SUNY Health Science Ctr. Brooklyn	32,218 i	0 i	32,218 i	0 i	0 i	0 i	0 i	0 i	0 i
157	U. Southern MS	32,075	13,097	6,180	131	6,065	94	1,095	3,064	2,349
158	Hampton U.	31,443	24,587	2,972	230	2,250	0	0	0	1,404
159	U. AR main campus	31,088	1,760	13,678	145	7,915	38	990	0	6,562
160	NJ Institute of Technology	30,995	0	0	2,171	5,547	0	32	4,560	18,685
161	Northeastern U.	30,659	0	5,515	1,860	10,642	1,939	444	0	10,259
162	TX A&M U. System Health Science Ctr.	30,283	728	27,862	0	0	108	0	0	1,585
163	San Diego State U.	30,092	1,356	14,763	587	1,764	5,347	67	41	6,167
164	Loyola U. Chicago	29,150	1	27,795	156	638	474	86	0	0
165	Jackson State U.	28,806	3,420	7,798	4,018	4,565	1,129	312	6,953	611
166	U. PR Medical Sciences Campus	28,063	0	28,063	0	0	0	0	0	0
167	U. NV, Las Vegas	28,013	11,613 i	4,287 i	1,495 i	3,853 i	0 i	2,930 i	0 i	3,835 i
168	Loma Linda U.	26,631	0	26,631	0	0	0	0	0	0
169	Desert Research Institute	26,235	18,473	0	0	0	0	0	7,762	0
170	Meharry Medical C.	26,159	0	26,159	0	0	0	0	0	0
171	C. of William and Mary all campuses	26,049	14,815	1,053	1,329	8,185	82	585	0	0
172	GA State U.	25,845	235	8,680	884	3,827	8,793	3,426	0	0
173	U. AL, The	25,329	1,223	2,595	1,114	2,645	2,800	1,626	0	13,326
174	NY Medical C.	25,103	0	25,103	0	0	0	0	0	0
175	FL A&M U.	24,994	2,281	16,886	554	1,564	67	0	65	3,577
176	U. MD Biotechnology Institute	24,059	4,650	19,409	0	0	0	0	0	0
177	Morehouse School of Medicine	23,331	0	23,331	0	0	0	0	0	0
178	U. WY	23,186 e	3,964 e	11,783 e	192 e	2,528 e	1,103 e	672 e	1,228 e	1,716 e
179	TX Tech U.	23,181	6,706	4,574	1,056	2,976	280	1,279	0	6,310
180	Boston C.	22,907 e	453 e	3,015 e	8,975 e	6,851 e	637 e	2,976 e	0 e	0 e
181	SUNY Upstate Medical U.	22,650	0	22,650	0	0	0	0	0	0
182	Old Dominion U.	21,377	2,472	836	1,331	1,770	462	236	0	14,270
183	OH U. all campuses	20,831	753	3,518	134	4,576	1,031	315	0	10,504
184	Wright State U. all campuses	20,599	162	11,866	2,465	1,600	1,327	39	0	3,140
185	San Jose State U.	20,363	7,123	248	177	2,216	9,056	62	0	1,481
186	U. MO-Rolla	20,218	2,423	517	94	3,490	0	0	0	13,694
187	CUNY City C.	19,711	135	5,548	699	6,694	388	62	0	6,185
188	Stevens Institute of Technology	19,473	7,064	473	3,624	3,111	0	0	148	5,053
189	Lehigh U.	19,400	1,791	1,722	909	2,651	182	0	0	12,145
190	Catholic U. America, The	18,927	0	1,266	0	15,229	1,094	122	0	1,216

TABLE 35. Federally financed R&D expenditures at universities and colleges, ranked by federal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
191	CUNY Hunter C.	18,836	97	7,812	230	5,516	4,617	516	48	0
192	MI Technological U.	18,735	4,162	425	907	1,454	0	26	39	11,722
193	U. South AL	17,832	1,608	13,334	129	100	281	607	0	1,773
194	Eastern VA Medical School	17,530	0	17,530	0	0	0	0	0	0
195	Brigham Young U. all campuses	17,129	203	3,701	1,093	3,327	412	636	0	7,757
196	Marshall U.	17,104	0	8,912	0	245	0	0	0	7,947
197	U. TX El Paso	16,900	2,442	5,069	846	3,239	557	80	191	4,476
198	U. MA Lowell	16,655	1,612	3,229	341	5,207	78	1,864	179	4,145
199	CO School of Mines	16,550	1,436	0	653	5,677	0	6	0	8,778
200	U. LA Lafayette	15,850	39	11,212	673	102	40	189	2,984	611
	All other sampled institutions	1,164,348	101,724	459,001	77,204	171,673	58,364	57,337	39,959	199,086

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$643 million in federally financed R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 36. Nonfederal R&D expenditures at universities and colleges, ranked by nonfederal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	Nonfederal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	15,565,848	758,070	9,237,033	507,227	978,206	195,681	974,310	505,625	2,409,696
1	U. WI Madison	329,452	10,796	235,926	4,610	16,038	6,384	21,933	27	33,738
2	U. CA, Los Angeles	311,424	2,715	232,614	5,386	16,177	2,992	29,035	4,006	18,499
3	U. CA, San Francisco	309,377	0	301,983	0	7,394	0	0	0	0
4	U. CA, Davis	289,820	16,494	214,031	1,820	9,736	828	15,492	1,749	29,670
5	TX A&M U. all campuses	283,104	23,277	118,301	5,030	16,626	801	5,837	2,989	110,243
6	U. CA, Berkeley	256,768	4,186	87,785	1,779	21,903	3,587	43,116	13,893	80,519
7	PA State U. all campuses	252,143	18,934	107,390	8,489	17,958	6,641	16,142	4,458	72,131
8	U. MI all campuses	247,787	3,280	133,555	6,902	12,156	1,174	42,715	404	47,601
9	U. CA, San Diego	243,061	42,744	123,511	20,335	13,902	1,480	8,384	800	31,905
10	Cornell U. all campuses	236,447	2,038	146,643	12,526	29,568	2,926	15,148	0	27,598
11	OH State U. all campuses	233,413	4,206	121,355	19,158	10,518	1,732	9,339	4,426	62,679
12	U. IL Urbana-Champaign	230,145	24,557	72,505	38,753	15,304	5,511	21,218	1,963	50,334
13	LA State U. all campuses	229,465	22,546	148,060	3,892	7,638	848	8,465	7,363	30,653
14	U. FL	225,248	2,758	178,247	1,428	9,190	1,081	8,737	0	23,807
15	Purdue U. all campuses	221,689	1,443	100,826	11,329	5,827	1,746	11,680	7,442	81,396
16	IN U. all campuses	217,255	3,621	108,530	7,137	35,931	4,145	26,071	29,634	2,186
17	U. GA	216,812	8,977	146,151	7,043	8,116	5,875	35,045	0	5,605
18	U. MN all campuses	206,692	5,204	151,076	4,657	6,264	4,034	12,252	0	23,205
19	U. TX M. D. Anderson Cancer Ctr.	202,505	0	185,200	10,151	2,879	2,982	306	0	987
20	U. AZ	194,724	4,570	104,779	2,308	50,508	1,176	9,051	20	22,312
21	NC State U.	189,134	10,177	104,768	8,953	11,446	1	5,021	2,905	45,863
22	U. NE all campuses	183,257	1,918	121,655	4,204	6,088	4,111	9,673	15,716	19,892
23	MI State U.	181,965	563	124,854	2,724	18,639	2,640	15,856	669	16,020
24	U. MD Baltimore	176,072	0	176,072	0	0	0	0	0	0
25	GA Institute of Technology all campuses	173,316	7,913	8,758	19,310	11,316	1,403	8,198	845	115,573
26	VA Polytechnic Institute and State U.	173,083	4,682	79,866	13,180	6,934	799	4,921	8	62,693
27	Duke U.	172,975	4,809	149,901	655	2,611	730	7,340	0	6,929
28	Rutgers, The State U. NJ all campuses	167,879	15,484	81,447	9,884	13,287	6,060	21,534	1,470	18,713
29	U. KY all campuses	167,723	2,015	115,982	2,419	4,099	1,331	5,798	10,234	25,845
30	Baylor C. of Medicine	163,406	0	163,406	0	0	0	0	0	0
31	U. PA	161,413	576	120,264	2,330	4,248	233	20,419	4,802	8,541
32	Johns Hopkins U., The ^a	145,588	2,335	108,262	1,240	2,601	628	1,016	23,097	6,409
33	U. MD College Park	144,705	1,551	33,288	14,610	13,731	164	47,741	0	33,620
34	Stanford U.	129,379	4,764	77,647	2,692	7,131	1,738	6,678	0	28,729
35	Northwestern U.	128,354	178	94,109	1,168	6,512	786	6,445	3,349	15,807
36	U. MO-Columbia	127,246	1,049	97,280	730	2,148	2,332	9,434	0	14,273
37	IA State U.	119,761	1,911	63,128	8,740	4,051	581	7,075	10,687	23,588

TABLE 36. Nonfederal R&D expenditures at universities and colleges, ranked by nonfederal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	Nonfederal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
38	U. TN all campuses	119,403	2,743	61,962	6,389	4,030	87	9,583	10,870	23,739
39	Washington U. St. Louis	118,522	2,406	104,594	1,563	3,716	1,445	701	0	4,097
40	MA Institute of Technology	115,896	4,149	15,475	17,757	2,451	188	4,297	15,093	56,486
41	SUNY Buffalo all campuses	115,087	960	83,036	4,859	7,305	2,239	3,127	310	13,251
42	U. IL Chicago	114,874	1,568	81,378	3,705	3,350	2,412	7,895	5,731	8,835
43	U. Southern CA	114,076	4,064	72,077	6,260	5,681	1,236	6,950	1,398	16,410
44	U. TX Southwestern Medical Ctr. Dallas	113,515	0	113,515	0	0	0	0	0	0
45	U. South FL	113,115	6,744	86,732	84	2,467	837	2,090	160	14,001
46	U. NC Chapel Hill	112,523	10,968	82,330	2,949	5,615	706	9,955	0	0
47	Wayne State U.	110,775	72	87,265	1,175	6,553	1,319	4,935	859	8,597
48	Rockefeller U.	109,687	0	101,524	5,701	2,462	0	0	0	0
49	SUNY Albany	109,265	3,367	10,805	2,029	28,723	718	8,272	0	55,351
50	MS State U.	109,147	1,109	59,947	6,954	6,353	957	3,966	1,112	28,749
51	U. TX Austin	108,605	18,481	10,663	7,327	20,345	629	8,086	956	42,118
52	U. CA, Irvine	106,029	2,243	65,718	6,291	8,454	1,386	5,836	614	15,487
53	U. IA	103,049	1,260	73,775	671	3,017	421	4,320	438	19,147
54	Clemson U.	97,520	5	33,198	2,573	5,534	271	6,183	17,990	31,766
55	WA State U.	96,791	1,549	66,561	485	4,936	461	8,299	3,389	11,111
56	Yale U.	91,991	573	75,528	1,194	3,753	2,583	4,517	0	3,843
57	SUNY Stony Brook all campuses	90,423	7,859	50,588	4,419	9,760	790	2,556	0	14,451
58	U. CA Office of the President	90,030	7,639	56,234	2,164	17,713	0	1,830	4,142	308
59	U. WA	88,758	7,160	57,187	380	2,873	504	9,744	0	10,910
60	U. of Medicine and Dentistry NJ	87,322	0	87,322	0	0	0	0	0	0
61	U. CT all campuses	83,627	2,431	63,261	980	1,809	2,685	3,417	554	8,490
62	U. Cincinnati all campuses	81,361	575	57,910	527	3,925	1,200	2,264	1,602	13,358
63	U. Rochester	81,110	216	65,677	326	1,394	4,271	93	539	8,594
64	U. KS all campuses	79,272	10,329	50,901	376	2,078	160	4,749	2,263	8,416
65	NY U.	77,892	659	65,151	2,256	1,202	2,724	4,551	1,349	0
66	U. OK all campuses	77,530	17,366	35,837	1,438	7,071	472	6,137	0	9,209
67	Princeton U.	76,938	7,085	11,986	5,036	9,565	2,344	21,769	0	19,153
68	Auburn U. all campuses	76,140	1,164	57,392	277	1,549	88	1,416	411	13,843
69	U. UT	76,040	1,664	46,084	6,871	5,563	369	2,373	0	13,116
70	AZ State U. main campus	72,287	217	14,472	2,618	10,195	1,822	7,613	5,623	29,727
71	CO State U.	69,675	14,108	37,999	1,183	2,267	618	1,706	2,849	8,945
72	U. CA, Riverside	69,646	7,585	39,769	999	1,946	180	4,700	3,738	10,729
73	Emory U.	68,437	24	65,828	15	1,046	298	1,226	0	0
74	U. CO all campuses	68,006	6,960	43,414	1,369	5,901	1,279	2,004	232	6,847
75	U. Pittsburgh all campuses	67,249	34	57,985	550	2,501	491	1,047	0	4,641

TABLE 36. Nonfederal R&D expenditures at universities and colleges, ranked by nonfederal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	Nonfederal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
76	OR State U.	66,010	5,642	50,740	590	1,185	7	1,490	275	6,081
77	FL State U.	65,165	7,626	11,983	4,381	23,137	3,694	8,196	255	5,893
78	U. TX Medical Branch	64,307	0	62,845	0	0	0	0	0	1,462
79	KS State U.	63,218	246	45,428	818	1,687	411	2,462	2,469	9,697
80	Columbia U. in the City of NY	61,908	1,957	42,717	564	3,966	109	4,181	3,986	4,428
81	OK State U. all campuses	60,570	1,090	39,565	593	2,612	380	5,195	2,077	9,058
82	Medical U. SC	59,685	0	59,685	0	0	0	0	0	0
83	U. Central FL	59,241	7,538	4,610	323	12,615	47	7,021	16,640	10,447
84	U. CA, Santa Barbara	59,077	13,784	933	3,693	7,149	529	6,638	3,671	22,680
85	U. AR main campus	57,830	1,488	42,375	971	2,192	297	2,526	0	7,981
86	U. NM all campuses	57,786	700	29,587	313	985	1,034	4,061	16,654	4,452
87	U. AK Fairbanks all campuses	56,943	27,829	15,865	2,262	1,713	0	877	1,428	6,969
88	Vanderbilt U.	56,851	71	38,958	70	1,645	1,984	1,496	7,773	4,854
89	ND State U. all campuses	56,740	151	45,319	288	1,050	249	2,809	4,787	2,087
90	U. Louisville	56,177	434	47,809	234	606	651	1,188	331	4,924
91	U. MA Amherst	55,336	1,727	14,967	6,595	12,980	1,635	2,253	687	14,492
92	Harvard U.	54,731	1,915	38,191	21	3,146	476	9,838	0	1,144
93	U. Miami	52,503	5,730	44,834	0	91	457	187	0	1,204
94	Dartmouth C.	50,157	425	34,509	1,738	2,233	2,163	461	3,127	5,501
95	U. SC all campuses	49,815	9,430	14,423	1,686	7,358	1,477	3,647	2,074	9,720
96	U. HI Manoa	49,333	10,276	27,922	35	2,460	69	1,924	5,472	1,175
97	U. AL Birmingham, The	49,286	0	45,849	200	916	594	79	0	1,648
98	OR Health & Science U.	48,228	0	23,770	1,798	0	130	0	22,530	0
99	U. TX Health Science Ctr. San Antonio	47,377	0	47,377	0	0	0	0	0	0
100	WV U.	47,183	2,870	30,104	569	1,680	149	1,873	105	9,833
101	Brown U.	46,615	2,505	20,060	5,256	5,591	1,047	5,730	0	6,426
102	UT State U.	45,671	6,116	23,106	473	889	1,546	1,763	7,393	4,385
103	U. ME	44,703	10,392	20,178	1,067	2,421	261	2,312	1,323	6,749
104	U. ID	44,681	1,835	24,758	298	1,026	100	1,514	11,433	3,717
105	NJ Institute of Technology	44,003	0	0	4,259	2,592	0	164	13,385	23,603
106	VA Commonwealth U.	43,773	158	37,532	84	1,399	1,834	494	0	2,272
107	U. Chicago	43,288	154	34,053	419	8,166	420	72	0	4
108	U. MA Worcester	42,928	0	42,928	0	0	0	0	0	0
109	Mt. Sinai School of Medicine	42,029	0	42,029	0	0	0	0	0	0
110	U. CA, Santa Cruz	41,101	7,036	6,864	944	18,897	520	3,175	66	3,599
111	U. TX Health Science Ctr. Houston	40,591	0	40,591	0	0	0	0	0	0
112	Tulane U.	40,453	277	36,140	366	733	184	913	421	1,419
113	U. VA all campuses	40,411	489	26,294	834	1,974	857	343	95	9,525
114	U. LA Lafayette	39,368	308	23,887	5,310	953	304	769	4,163	3,674

TABLE 36. Nonfederal R&D expenditures at universities and colleges, ranked by nonfederal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	Nonfederal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
115	MT State U. Bozeman	38,822	183	29,318	239	1,550	0	1,336	3,001	3,195
116	Medical C. WI	38,688	0	38,688	0	0	0	0	0	0
117	Southern IL U. Carbondale	38,396	1,073	21,617	666	966	240	1,472	1,309	11,053
118	Rush U.	37,548	0	36,779	0	0	769	0	0	0
119	U. WY	36,868 e	4,112 e	15,969 e	248 e	2,743 e	489 e	1,128 e	7,331 e	4,848 e
120	San Diego State U.	36,618	1,320	10,944	1,073	2,392	3,673	4,937	7,616	4,663
121	Case Western Reserve U.	36,275	0	20,552	0	1,302	48	58	0	14,315
122	U. NH	36,018	6,498	17,347	54	895	3	1,497	1,572	8,152
123	U. VT	35,105	135	31,128	509	316	219	105	1,535	1,158
124	TX Tech U.	34,411	2,976	11,485	127	3,574	152	5,778	311	10,008
125	TX A&M U. System Health Science Ctr.	33,887	0	33,543	0	0	0	0	0	344
126	Tufts U.	33,435	553	22,164	575	628	1,938	5,743	0	1,834
127	U. DE	33,402	3,026	12,583	472	3,012	475	2,638	2,689	8,507
128	U. NV, Reno	32,765	2,815	17,832	241	471	43	801	8,010	2,552
129	Carnegie Mellon U.	32,291	0	785	9,964	7,336	787	2,423	1,243	9,753
130	Yeshiva U.	31,733	0	31,733	0	0	0	0	0	0
131	Georgetown U.	30,468	0	20,313	10	265	34	9,846	0	0
132	U. Memphis, The	30,042	3,192	5,326	3,571	1,368	5,309	6,272	2,041	2,963
133	Uniformed Services U. of the Health Sciences	27,591	0	27,549	0	0	42	0	0	0
134	U. Houston	26,494	1,890	4,109	2,293	4,147	986	866	0	12,203
135	U. MD Ctr. for Environmental Science	25,807	25,807	0	0	0	0	0	0	0
136	U. of Notre Dame	25,605	0	2,417	235	1,901	317	3,212	13,108	4,415
137	Temple U.	25,599	41	16,849	280	892	3,600	2,147	0	1,790
138	George Washington U.	25,281	92	14,562	1,431	496	15	6,908	148	1,629
139	NM Institute of Mining and Technology	24,623	8,772	420	213	1,325	2	0	2,303	11,588
140	U. MD Biotechnology Institute	24,219	4,106	20,113	0	0	0	0	0	0
141	C. of William and Mary all campuses	23,371	17,825	928	101	2,772	382	1,363	0	0
142	Medical C. GA	22,967	0	22,967	0	0	0	0	0	0
143	SUNY C. of Environmental Science and Forestry	22,842 i	2,493 i	9,281 i	0 i	1,870 i	0 i	228 i	0 i	8,970 i
144	Boston U.	21,813	438	17,809	269	598	21	507	251	1,920
145	Drexel U.	21,157	0	9,043	359	631	126	31	0	10,967
146	U. MO-Rolla	21,024	4,760	144	243	1,375	19	55	0	14,428
147	U. AR for Medical Sciences	20,814	0	20,814	0	0	0	0	0	0
148	Rensselaer Polytechnic Institute	20,256	772	115	903	1,891	0	246	0	16,329
149	U. MS all campuses	20,080	0	15,798	47	2,197	142	678	169	1,049
150	Thomas Jefferson U.	19,782	0	19,782	0	0	0	0	0	0
151	GA State U.	19,570	162	5,829	828	2,769	2,841	7,021	120	0
152	Wichita State U.	18,152	8	778	102	1,198	376	165	0	15,525

TABLE 36. Nonfederal R&D expenditures at universities and colleges, ranked by nonfederal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	Nonfederal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
153	Southern IL U. Edwardsville	18,144	316	2,410	952	881	0	4,229	4,080	5,276
154	OH U. all campuses	17,873	406	6,105	220	2,401	459	860	0	7,422
155	Wright State U. all campuses	17,453	316	9,571	2,786	1,411	639	43	83	2,604
156	U. NV, Las Vegas	17,416	5,819 i	1,820 i	464 i	3,229 i	0 i	3,009 i	0 i	3,075 i
157	U. Akron all campuses	17,204	332	663	339	7,218	70	4,238	0	4,344
158	MI Technological U.	16,935	2,658	384	1,045	705	0	512	841	10,790
159	NM State U. all campuses	16,933	349	12,697	54	1,312	114	582	0	1,825
160	CA Institute of Technology	16,911	1,796	1,772	0	4,151	0	61	6,587	2,544
161	Northeastern U.	16,624	0	2,738	773	3,439	1,575	2,221	0	5,878
162	U. MT, The	16,600	112	8,057	211	796	95	1,676	5,653	0
163	U. MO-Kansas City	16,272	0	11,615	191	889	723	247	0	2,607
164	Eastern VA Medical School	16,268	0	16,268	0	0	0	0	0	0
165	CUNY Hunter C.	16,095	4,126	4,740	172	2,157	1,516	3,275	109	0
166	FL International U.	15,632	3,983	3,846	924	1,598	639	3,406	160	1,076
167	U. TX Dallas	15,541	635	2,484	1,269	3,338	394	391	207	6,823
168	Syracuse U. all campuses	15,114	337	193	2,470	59	20	896	7,520	3,619
169	SUNY Binghamton	14,991	561	2,065	1,359	2,023	1,291	2,081	39	5,572
170	U. WI Milwaukee	14,598	3,522	1,894	666	2,194	169	2,894	0	3,259
171	U. Toledo	14,479	2,060	2,236	22	3,600	61	103	280	6,117
172	SD State U.	14,437	77	12,320	54	97	1	844	103	941
173	U.S. Air Force Academy	14,259	0	353	2,079	890	225	404	0	10,308
174	Wake Forest U.	13,678	0	13,091	84	388	0	0	115	0
175	Woods Hole Oceanographic Institution	13,631	12,909	0	0	0	0	0	0	722
176	Brandeis U.	13,457	0	5,111	312	1,042	499	6,493	0	0
177	Old Dominion U.	13,442	1,354	1,420	617	699	308	633	0	8,411
178	U. ND all campuses	13,246	1,199	1,931	70	289	70	26	2,408	7,253
179	Lehigh U.	12,648	33	246	202	3,151	5	47	0	8,964
180	U. RI	12,357	2,866	3,995	61	7	771	39	3,457	1,161
181	TX Tech U. Health Science Ctr.	12,223	0	12,223	0	0	0	0	0	0
182	U. MD Baltimore County	11,855	368	119	2,023	633	907	2,894	3,925	986
183	Creighton U.	11,706	0	11,688	8	0	0	10	0	0
184	Charles R. Drew U. of Medicine and Science	11,564	0	11,564	0	0	0	0	0	0
185	CA State U. Fresno	11,461	238	9,978	0	43	0	57	0	1,145
186	LA Tech U.	11,400	0	1,347	1,081	1,183	140	761	0	6,888
187	CO School of Mines	10,537	572	0	46	651	0	6	0	9,262
188	Cleveland State U.	10,508	395	1,366	41	857	43	5,956	0	1,850
189	Miami U. all campuses	10,245	138 i	2,039 i	0 i	2,393 i	344 i	2,173 i	2,794 i	364 i
190	U. MA Boston	10,048	931	1,714	55	340	276	6,711	2	19

TABLE 36. Nonfederal R&D expenditures at universities and colleges, ranked by nonfederal R&D expenditures for the first 200 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	Nonfederal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
191	Morehouse School of Medicine	9,986	0	9,986	0	0	0	0	0	0
192	Rice U.	9,715	118	1,001	1,181	2,612	2	540	27	4,234
193	U. AL Huntsville, The	9,652	1,679	848	1,192	2,126	8	93	74	3,632
194	SUNY Upstate Medical U.	9,440	0	9,440	0	0	0	0	0	0
195	Boston C.	9,251 e	61 e	1,380 e	3,569 e	1,374 e	233 e	2,634 e	0 e	0 e
196	U. PR Mayaguez Campus	9,147	2,372	323	73	524	0	172	97	5,586
197	FL Atlantic U.	9,105	953	2,169	468	3,670	129	763	0	953
198	San Jose State U.	8,905	4,735	235	1,179	710	0	53	990	1,003
199	U. MA Dartmouth	8,875	4,629	312	192	355	22	233	2	3,130
200	Mercer U. all campuses	8,824	0	2,127	64	497	8	1	166	5,961
	All other sampled institutions	636,072	54,260	210,716	31,232	83,769	19,592	63,609	45,351	127,543

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$27 million in nonfederally financed R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 37. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	29,292,010	1,896,244	16,862,248	1,197,785	2,362,500	568,059	1,328,005	593,233	4,483,936
1	U. CA, Los Angeles	772,569	15,396	562,755	22,251	59,270	11,982	36,461	6,307	58,147
2	U. MI all campuses	769,126	8,166	441,349	13,893	38,783	10,823	92,602	448	163,062
3	U. WI Madison	763,875	54,127	473,733	18,260	51,853	29,329	41,686	27	94,860
4	U. CA, San Francisco	728,321	0	698,712	0	29,609	0	0	0	0
5	U. WA	713,976	78,845	481,620	5,178	34,917	8,863	34,519	0	70,034
6	U. CA, San Diego	708,690	122,387	359,714	88,614	45,849	7,369	12,825	800	71,132
7	PA State U. all campuses	600,139	41,057	198,726	39,923	59,831	18,626	25,994	6,082	209,900
8	U. CA, Berkeley	525,598	9,093	178,073	9,179	97,862	11,531	49,840	18,625	151,395
9	OH State U. all campuses	518,088	11,398	288,853	30,224	31,277	6,752	32,793	5,833	110,958
10	U. MN all campuses	515,061	12,232	372,490	19,086	25,874	12,864	20,208	0	52,307
11	U. CA, Davis	511,757	26,891	381,707	6,223	24,424	1,625	17,683	2,750	50,454
12	U. IL Urbana-Champaign	506,041	41,152	131,495	117,271	50,152	14,265	27,373	4,301	120,032
13	U. CO all campuses	482,992	86,142	272,329	10,151	57,472	9,908	9,923	1,738	35,329
14	U. AZ	478,680	11,971	255,588	10,645	124,566	4,136	18,212	20	53,542
15	U. Pittsburgh all campuses	461,693	654	396,405	4,990	20,164	7,488	4,986	9,156	17,850
16	TX A&M U. all campuses	456,809	66,724	167,704	16,384	36,942	2,621	7,937	3,033	155,464
17	U. FL	447,146	7,879	311,513	7,165	33,960	8,952	10,482	0	67,195
18	U. NC Chapel Hill	416,727	23,761	321,080	10,281	21,524	6,065	34,016	0	0
19	GA Institute of Technology all campuses	410,799	15,046	16,907	61,006	26,380	3,236	11,010	1,663	275,551
20	IN U. all campuses	384,168	5,458	233,402	16,367	51,497	12,234	32,037	29,991	3,182
21	Purdue U. all campuses	365,779	4,624	163,164	21,109	19,563	5,494	16,783	10,193	124,849
22	U. TX M. D. Anderson Cancer Ctr.	353,034	0	317,612	14,950	8,465	7,966	463	0	3,578
23	U. TX Austin	343,886	30,915	44,309	43,713	75,345	7,560	18,156	4,587	119,301
24	LA State U. all campuses	341,634	30,827	223,668	4,847	20,325	1,057	10,171	7,363	43,376
25	U. MD College Park	325,648	11,158	58,758	33,320	54,976	4,798	79,872	0	82,766
26	MI State U.	325,438	1,409	203,707	7,784	52,277	6,472	27,952	909	24,928
27	U. MD Baltimore	317,293	0	317,293	0	0	0	0	0	0
28	U. TX Southwestern Medical Ctr. Dallas	314,403	0	314,403	0	0	0	0	0	0
29	U. GA	313,160	12,891	218,663	8,990	12,733	14,005	39,138	0	6,740
30	U. IA	312,914	2,016	247,550	3,367	16,081	5,477	5,240	441	32,742
31	U. AL Birmingham, The	310,950	0	288,286	1,310	3,100	7,514	983	0	9,757
32	U. IL Chicago	307,699	3,265	229,586	12,820	13,385	6,566	14,592	9,324	18,161
33	U. NE all campuses	299,090	5,004	202,657	8,900	13,548	9,650	14,008	17,214	28,109
34	U. KY all campuses	297,610	3,549	206,585	8,649	9,933	5,099	7,889	12,200	43,706
35	Rutgers, The State U. NJ all campuses	296,534	28,359	144,974	18,165	32,900	11,378	25,450	1,470	33,838
36	NC State U.	292,720	15,594	145,675	19,061	20,885	1	7,265	4,008	80,231
37	U. Cincinnati all campuses	276,326	689	234,726	683	7,070	1,390	3,340	1,613	26,815

TABLE 37. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
38	VA Polytechnic Institute and State U.	268,752	10,127	115,882	17,190	14,460	2,813	6,501	12	101,767
39	SUNY Buffalo all campuses	258,952	1,734	185,181	10,865	16,751	4,749	4,566	712	34,394
40	U. CA, Irvine	257,024	6,045	171,927	14,499	22,364	3,508	9,303	614	28,764
41	OR Health & Science U.	254,447	0	204,065	17,805	0	10,047	0	22,530	0
42	U. South FL	240,021	28,375	169,407	162	5,006	3,164	3,567	448	29,892
43	U. UT	237,159	5,844	160,288	18,829	18,915	2,626	2,596	0	28,061
44	U. HI Manoa	236,368	54,891	99,014	18,189	22,653	4,148	7,407	21,382	8,684
45	U. TN all campuses	228,760	4,970	131,621	13,713	13,636	319	11,006	12,267	41,228
46	U. VA all campuses	228,532	3,962	155,682	8,015	17,037	7,287	1,501	701	34,347
47	Wayne State U.	225,475	108	182,077	2,710	15,325	3,533	6,425	859	14,438
48	U. MO-Columbia	217,550	1,945	165,113	2,841	4,850	7,273	14,648	0	20,880
49	CO State U.	214,888	71,410	96,375	4,577	10,230	3,784	3,647	3,041	21,824
50	SUNY Stony Brook all campuses	213,547	21,961	116,965	11,568	29,737	3,472	4,150	812	24,882
51	IA State U.	211,996	5,768	103,733	14,475	10,306	798	17,597	11,021	48,298
52	U. CT all campuses	211,236	8,412	150,176	3,729	7,247	12,908	6,864	684	21,216
53	U. of Medicine and Dentistry NJ	209,134	0	209,134	0	0	0	0	0	0
54	SUNY Albany	203,977	7,391	90,232	4,262	30,653	1,797	13,158	0	56,484
55	MS State U.	191,352	4,815	94,584	11,625	10,566	2,099	6,580	5,950	55,133
56	U. KS all campuses	181,192	14,438	128,426	1,384	7,817	944	9,314	3,047	15,822
57	WA State U.	171,735	3,040	109,290	1,128	15,268	1,955	11,317	5,181	24,556
58	OR State U.	170,286	37,912	100,349	3,721	4,034	69	2,636	1,696	19,869
59	U. NM all campuses	170,085	3,988	90,392	4,891	8,069	5,665	12,512	21,588	22,980
60	U. MA Worcester	169,090	0	169,090	0	0	0	0	0	0
61	FL State U.	168,132	21,459	32,559	10,475	50,839	8,574	15,029	255	28,942
62	U. TX Medical Branch	166,798	0	164,172	0	0	0	0	0	2,626
63	Medical U. SC	163,179	0	163,179	0	0	0	0	0	0
64	Clemson U.	158,585	5	49,788	3,776	10,835	908	11,158	18,251	63,864
65	U. OK all campuses	158,578	29,639	87,944	2,337	13,057	1,293	8,549	0	15,759
66	UT State U.	153,616	9,007	45,921	1,242	4,187	3,925	2,726	8,612	77,996
67	AZ State U. main campus	152,164	11,197	29,588	7,055	21,447	8,694	10,878	7,657	55,648
68	U. CA, Santa Barbara	151,325	26,527	4,586	13,125	25,236	3,089	11,807	8,145	58,810
69	U. TX Health Science Ctr. Houston	147,328	0	147,328	0	0	0	0	0	0
70	U. TX Health Science Ctr. San Antonio	137,039	0	137,039	0	0	0	0	0	0
71	VA Commonwealth U.	132,839	648	113,794	150	5,178	4,875	1,290	0	6,904
72	U. AK Fairbanks all campuses	132,212	67,891	29,193	12,616	1,919	0	1,206	5,112	14,275
73	Auburn U. all campuses	125,705	1,636	79,811	464	6,944	665	2,223	3,575	30,387
74	U. SC all campuses	121,671	20,720	38,926	4,091	15,838	6,162	7,715	2,433	25,786
75	U. MA Amherst	120,788	3,387	34,791	18,674	32,108	5,077	3,010	696	23,045

TABLE 37. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
76	KS State U.	119,306	526	78,673	3,948	11,048	687	3,844	2,754	17,826
77	U. VT	114,120	429	99,972	1,515	1,691	848	232	6,915	2,518
78	U. Louisville	110,653	794	92,381	555	2,298	3,163	1,901	331	9,230
79	U. CA, Riverside	110,627	11,823	58,891	3,594	7,882	1,950	8,661	3,744	14,082
80	U. DE	109,985	12,226	25,244	2,823	16,837	3,328	6,313	7,001	36,213
81	WV U.	108,002	7,219	61,925	1,232	5,294	277	3,308	115	28,632
82	U. NH	103,935	45,307	26,522	403	4,540	338	4,299	1,606	20,920
83	OK State U. all campuses	103,915	1,737	58,529	954	8,524	418	7,519	6,037	20,197
84	U. Central FL	103,261	13,747	9,955	509	27,738	2,016	7,759	21,281	20,256
85	ND State U. all campuses	102,115	297	56,857	2,364	14,277	1,333	9,436	6,912	10,639
86	MT State U. Bozeman	97,696	1,184	58,661	1,294	13,947	0	3,014	7,620	11,976
87	U. CA, Santa Cruz	94,297	18,414	13,693	2,855	37,630	1,096	3,666	66	16,877
88	NM State U. all campuses	93,329	833	25,766	2,865	9,456	1,026	2,551	250	50,582
89	U. ID	93,246	4,887	55,187	1,591	3,150	201	2,381	13,234	12,615
90	U. CA Office of the President	90,233	7,639	56,382	2,164	17,713	0	1,833	4,194	308
91	Uniformed Services U. of the Health Sciences	89,999	0	89,850	0	0	149	0	0	0
92	U. AR main campus	88,918	3,248	56,053	1,116	10,107	335	3,516	0	14,543
93	U. NV, Reno	83,552	8,072	48,236	1,318	7,786	509	1,040	8,010	8,581
94	U. ME	81,216	22,830	31,107	1,687	6,551	1,222	4,772	1,323	11,724
95	U. MS all campuses	79,867	0	52,366	224	17,555	201	1,700	429	7,392
96	Temple U.	76,055	224	53,739	815	3,597	10,338	3,459	0	3,883
97	NJ Institute of Technology	74,998	0	0	6,430	8,139	0	196	17,945	42,288
98	U. AR for Medical Sciences	74,063	0	74,063	0	0	0	0	0	0
99	San Diego State U.	66,710	2,676	25,707	1,660	4,156	9,020	5,004	7,657	10,830
100	Naval Postgraduate School	65,092 i	11,548 i	0 i	18,708 i	3,436 i	0 i	13,971 i	7,138 i	10,291 i
101	TX A&M U. System Health Science Ctr.	64,170	728	61,405	0	0	108	0	0	1,929
102	FL International U.	63,545	16,191	15,633	3,756	6,496	2,597	13,846	652	4,374
103	U. Houston	60,962	4,289	15,760	5,517	8,401	5,618	2,403	0	18,974
104	U. RI	60,947	25,824	18,449	591	859	3,662	98	6,123	5,341
105	U. WY	60,054 e	8,076 e	27,752 e	440 e	5,271 e	1,592 e	1,800 e	8,559 e	6,564 e
106	Medical C. GA	58,808	0	58,808	0	0	0	0	0	0
107	TX Tech U.	57,592	9,682	16,059	1,183	6,550	432	7,057	311	16,318
108	U. LA Lafayette	55,218	347	35,099	5,983	1,055	344	958	7,147	4,285
109	Southern IL U. Carbondale	53,953	1,568	32,716	767	1,744	568	1,828	2,637	12,125
110	U. OR	51,956	1,975	24,593	4,255	8,280	8,135	4,192	0	526
111	U. MT, The	51,078	684	33,350	1,675	3,739	776	5,108	5,653	93
112	U. ND all campuses	49,595	7,147	15,835	230	1,081	70	40	2,748	22,444
113	C. of William and Mary all campuses	49,420	32,640	1,981	1,430	10,957	464	1,948	0	0
114	U. MD Baltimore County	49,403	17,943	3,521	5,899	9,354	1,503	4,290	3,925	2,968

TABLE 37. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
115	U. AL Huntsville, The	49,259	6,796	2,105	8,630	9,831	18	467	77	21,335
116	U. MD Biotechnology Institute	48,278	8,756	39,522	0	0	0	0	0	0
117	George Mason U.	46,210	9,951	6,908	8,456	782	2,751	9,402	0	7,960
118	U. NV, Las Vegas	45,429	17,432 i	6,107 i	1,959 i	7,082 i	0 i	5,939 i	0 i	6,910 i
119	GA State U.	45,415	397	14,509	1,712	6,596	11,634	10,447	120	0
120	U. Memphis, The	44,120	4,700	6,975	4,666	1,871	11,065	9,193	2,041	3,609
121	San Francisco State U.	42,903	2,849 i	11,398 i	0 i	14,398 i	0 i	0 i	5,702 i	8,556 i
122	U. MO-Rolla	41,242	7,183	661	337	4,865	19	55	0	28,122
123	SUNY Health Science Ctr. Brooklyn	40,985 i	0 i	40,985 i	0 i	0 i	0 i	0 i	0 i	0 i
124	U. MD Ctr. for Environmental Science	39,631	39,631	0	0	0	0	0	0	0
125	OH U. all campuses	38,704	1,159	9,623	354	6,977	1,490	1,175	0	17,926
126	NM Institute of Mining and Technology	38,476	10,031	1,106	363	2,390	2	0	6,561	18,023
127	Wright State U. all campuses	38,052	478	21,437	5,251	3,011	1,966	82	83	5,744
128	U. Southern MS	35,908	13,336	6,545	132	8,320	149	1,104	3,828	2,494
129	MI Technological U.	35,670	6,820	809	1,952	2,159	0	538	880	22,512
130	CUNY Hunter C.	34,931	4,223	12,552	402	7,673	6,133	3,791	157	0
131	Old Dominion U.	34,819	3,826	2,256	1,948	2,469	770	869	0	22,681
132	Desert Research Institute	34,783	26,318	0	0	0	0	0	8,465	0
133	U. PR Medical Sciences Campus	34,092	0	34,092	0	0	0	0	0	0
134	U. AL, The	33,835	1,612	3,441	2,743	3,481	2,821	2,377	40	17,320
135	SUNY Upstate Medical U.	32,090	0	32,090	0	0	0	0	0	0
136	U. MO-Kansas City	31,968	0	24,032	488	1,867	2,230	417	0	2,934
137	Jackson State U.	31,641	3,757	8,565	4,414	5,014	1,240	343	7,637	671
138	FL A&M U.	31,408	2,512	21,046	625	1,980	67	1	277	4,900
139	U. TX Dallas	31,274	3,224	7,198	3,123	7,770	461	637	494	8,367
140	U.S. Air Force Academy	29,998	0	742	4,373	2,926	474	849	0	20,634
141	Wichita State U.	29,948	35	1,747	369	2,774	1,094	479	0	23,450
142	SD State U.	29,564	440	23,021	90	454	1	2,922	253	2,383
143	San Jose State U.	29,268	11,858	483	1,356	2,926	9,056	115	990	2,484
144	SUNY C. of Environmental Science and Forestry	28,568 i	2,780 i	13,579 i	0 i	2,270 i	0 i	283 i	0 i	9,656 i
145	U. WI Milwaukee	28,268	5,207	3,322	1,424	5,006	735	7,284	0	5,290

TABLE 37. R&D expenditures at public universities and colleges, ranked by all R&D expenditures for the first 150 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
146	U. Toledo	27,708	4,502	4,173	57	6,903	223	254	280	11,316
147	U. Akron all campuses	27,488	741	2,015	980	10,685	227	5,342	0	7,498
148	CO School of Mines	27,087	2,008	0	699	6,328	0	12	0	18,040
149	CUNY City C.	25,947	511	5,847	745	9,541	390	101	0	8,812
150	U. TX El Paso	25,440	2,984	6,851	1,155	3,691	574	744	191	9,250
	All other sampled institutions	1,171,822	109,502	452,393	71,690	148,017	38,829	96,065	65,463	189,863

e = estimated.

i = imputed.

nec = not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 38. Federally financed R&D expenditures at public universities and colleges, ranked by federal R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	16,948,937	1,211,654	9,777,641	793,254	1,559,973	414,808	543,258	190,623	2,457,726
1	U. WA	625,218	71,685	424,433	4,798	32,044	8,359	24,775	0	59,124
2	U. MI all campuses	521,339	4,886	307,794	6,991	26,627	9,649	49,887	44	115,461
3	U. CA, San Diego	465,629	79,643	236,203	68,279	31,947	5,889	4,441	0	39,227
4	U. CA, Los Angeles	461,145	12,681	330,141	16,865	43,093	8,990	7,426	2,301	39,648
5	U. WI Madison	434,423	43,331	237,807	13,650	35,815	22,945	19,753	0	61,122
6	U. CA, San Francisco	418,944	0	396,729	0	22,215	0	0	0	0
7	U. CO all campuses	414,986	79,182	228,915	8,782	51,571	8,629	7,919	1,506	28,482
8	U. Pittsburgh all campuses	394,444	620	338,420	4,440	17,663	6,997	3,939	9,156	13,209
9	PA State U. all campuses	347,996	22,123	91,336	31,434	41,873	11,985	9,852	1,624	137,769
10	U. MN all campuses	308,369	7,028	221,414	14,429	19,610	8,830	7,956	0	29,102
11	U. NC Chapel Hill	304,204	12,793	238,750	7,332	15,909	5,359	24,061	0	0
12	OH State U. all campuses	284,675	7,192	167,498	11,066	20,759	5,020	23,454	1,407	48,279
13	U. AZ	283,956	7,401	150,809	8,337	74,058	2,960	9,161	0	31,230
14	U. IL Urbana-Champaign	275,896	16,595	58,990	78,518	34,848	8,754	6,155	2,338	69,698
15	U. CA, Berkeley	268,830	4,907	90,288	7,400	75,959	7,944	6,724	4,732	70,876
16	U. AL Birmingham, The	261,664	0	242,437	1,110	2,184	6,920	904	0	8,109
17	GA Institute of Technology all campuses	237,483	7,133	8,149	41,696	15,064	1,833	2,812	818	159,978
18	U. TX Austin	235,281	12,434	33,646	36,386	55,000	6,931	10,070	3,631	77,183
19	U. CA, Davis	221,937	10,397	167,676	4,403	14,688	797	2,191	1,001	20,784
20	U. FL	221,898	5,121	133,266	5,737	24,770	7,871	1,745	0	43,388
21	U. IA	209,865	756	173,775	2,696	13,064	5,056	920	3	13,595
22	OR Health & Science U.	206,219	0	180,295	16,007	0	9,917	0	0	0
23	U. TX Southwestern Medical Ctr. Dallas	200,888	0	200,888	0	0	0	0	0	0
24	U. Cincinnati all campuses	194,965	114	176,816	156	3,145	190	1,076	11	13,457
25	U. IL Chicago	192,825	1,697	148,208	9,115	10,035	4,154	6,697	3,593	9,326
26	U. VA all campuses	188,121	3,473	129,388	7,181	15,063	6,430	1,158	606	24,822
27	U. HI Manoa	187,035	44,615	71,092	18,154	20,193	4,079	5,483	15,910	7,509
28	U. MD College Park	180,943	9,607	25,470	18,710	41,245	4,634	32,131	0	49,146
29	TX A&M U. all campuses	173,705	43,447	49,403	11,354	20,316	1,820	2,100	44	45,221
30	IN U. all campuses	166,913	1,837	124,872	9,230	15,566	8,089	5,966	357	996
31	U. UT	161,119	4,180	114,204	11,958	13,352	2,257	223	0	14,945
32	U. CA, Irvine	150,995	3,802	106,209	8,208	13,910	2,122	3,467	0	13,277
33	U. TX M. D. Anderson Cancer Ctr.	150,529	0	132,412	4,799	5,586	4,984	157	0	2,591
34	CO State U.	145,213	57,302	58,376	3,394	7,963	3,166	1,941	192	12,879
35	Purdue U. all campuses	144,090	3,181	62,338	9,780	13,736	3,748	5,103	2,751	43,453
36	SUNY Buffalo all campuses	143,865	774	102,145	6,006	9,446	2,510	1,439	402	21,143
37	MI State U.	143,473	846	78,853	5,060	33,638	3,832	12,096	240	8,908

TABLE 38. Federally financed R&D expenditures at public universities and colleges, ranked by federal R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
38	U. MD Baltimore	141,221	0	141,221	0	0	0	0	0	0
39	U. KY all campuses	129,887	1,534	90,603	6,230	5,834	3,768	2,091	1,966	17,861
40	Rutgers, The State U. NJ all campuses	128,655	12,875	63,527	8,281	19,613	5,318	3,916	0	15,125
41	U. CT all campuses	127,609	5,981	86,915	2,749	5,438	10,223	3,447	130	12,726
42	U. South FL	126,906	21,631	82,675	78	2,539	2,327	1,477	288	15,891
43	U. MA Worcester	126,162	0	126,162	0	0	0	0	0	0
44	SUNY Stony Brook all campuses	123,124	14,102	66,377	7,149	19,977	2,682	1,594	812	10,431
45	U. of Medicine and Dentistry NJ	121,812	0	121,812	0	0	0	0	0	0
46	U. NE all campuses	115,833	3,086	81,002	4,696	7,460	5,539	4,335	1,498	8,217
47	Wayne State U.	114,700	36	94,812	1,535	8,772	2,214	1,490	0	5,841
48	U. NM all campuses	112,299	3,288	60,805	4,578	7,084	4,631	8,451	4,934	18,528
49	LA State U. all campuses	112,169	8,281	75,608	955	12,687	209	1,706	0	12,723
50	U. TN all campuses	109,357	2,227	69,659	7,324	9,606	232	1,423	1,397	17,489
51	UT State U.	107,945	2,891	22,815	769	3,298	2,379	963	1,219	73,611
52	U. TX Health Science Ctr. Houston	106,737	0	106,737	0	0	0	0	0	0
53	OR State U.	104,276	32,270	49,609	3,131	2,849	62	1,146	1,421	13,788
54	NC State U.	103,586	5,417	40,907	10,108	9,439	0	2,244	1,103	34,368
55	Medical U. SC	103,494	0	103,494	0	0	0	0	0	0
56	FL State U.	102,967	13,833	20,576	6,094	27,702	4,880	6,833	0	23,049
57	U. TX Medical Branch	102,491	0	101,327	0	0	0	0	0	1,164
58	U. KS all campuses	101,920	4,109	77,525	1,008	5,739	784	4,565	784	7,406
59	U. GA	96,348	3,914	72,512	1,947	4,617	8,130	4,093	0	1,135
60	VA Polytechnic Institute and State U.	95,669	5,445	36,016	4,010	7,526	2,014	1,580	4	39,074
61	SUNY Albany	94,712	4,024	79,427	2,233	1,930	1,079	4,886	0	1,133
62	U. CA, Santa Barbara	92,248	12,743	3,653	9,432	18,087	2,560	5,169	4,474	36,130
63	IA State U.	92,235	3,857	40,605	5,735	6,255	217	10,522	334	24,710
64	U. MO-Columbia	90,304	896	67,833	2,111	2,702	4,941	5,214	0	6,607
65	U. TX Health Science Ctr. San Antonio	89,662	0	89,662	0	0	0	0	0	0
66	VA Commonwealth U.	89,066	490	76,262	66	3,779	3,041	796	0	4,632
67	MS State U.	82,205	3,706	34,637	4,671	4,213	1,142	2,614	4,838	26,384
68	U. OK all campuses	81,048	12,273	52,107	899	5,986	821	2,412	0	6,550
69	AZ State U. main campus	79,877	10,980	15,116	4,437	11,252	6,872	3,265	2,034	25,921
70	U. VT	79,015	294	68,844	1,006	1,375	629	127	5,380	1,360
71	U. DE	76,583	9,200	12,661	2,351	13,825	2,853	3,675	4,312	27,706
72	NM State U. all campuses	76,396	484	13,069	2,811	8,144	912	1,969	250	48,757
73	U. AK Fairbanks all campuses	75,269	40,062	13,328	10,354	206	0	329	3,684	7,306
74	WA State U.	74,944	1,491	42,729	643	10,332	1,494	3,018	1,792	13,445
75	U. SC all campuses	71,856	11,290	24,503	2,405	8,480	4,685	4,068	359	16,066

TABLE 38. Federally financed R&D expenditures at public universities and colleges, ranked by federal R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
76	U. NH	67,917	38,809	9,175	349	3,645	335	2,802	34	12,768
77	U. MA Amherst	65,452	1,660	19,824	12,079	19,128	3,442	757	9	8,553
78	Naval Postgraduate School	64,667 i	11,375 i	0 i	18,662 i	3,402 i	0 i	13,901 i	7,126 i	10,201 i
79	Uniformed Services U. of the Health Sciences	62,408	0	62,301	0	0	107	0	0	0
80	Clemson U.	61,065	0	16,590	1,203	5,301	637	4,975	261	32,098
81	WV U.	60,819	4,349	31,821	663	3,614	128	1,435	10	18,799
82	U. MS all campuses	59,787	0	36,568	177	15,358	59	1,022	260	6,343
83	MT State U. Bozeman	58,874	1,001	29,343	1,055	12,397	0	1,678	4,619	8,781
84	KS State U.	56,088	280	33,245	3,130	9,361	276	1,382	285	8,129
85	U. Louisville	54,476	360	44,572	321	1,692	2,512	713	0	4,306
86	U. AR for Medical Sciences	53,249	0	53,249	0	0	0	0	0	0
87	U. CA, Santa Cruz	53,196	11,378	6,829	1,911	18,733	576	491	0	13,278
88	U. NV, Reno	50,787	5,257	30,404	1,077	7,315	466	239	0	6,029
89	Temple U.	50,456	183	36,890	535	2,705	6,738	1,312	0	2,093
90	Auburn U. all campuses	49,565	472	22,419	187	5,395	577	807	3,164	16,544
91	U. RI	48,590	22,958	14,454	530	852	2,891	59	2,666	4,180
92	U. ID	48,565	3,052	30,429	1,293	2,124	101	867	1,801	8,898
93	FL International U.	47,913	12,208	11,787	2,832	4,898	1,958	10,440	492	3,298
94	ND State U. all campuses	45,375	146	11,538	2,076	13,227	1,084	6,627	2,125	8,552
95	U. Central FL	44,020	6,209	5,345	186	15,123	1,969	738	4,641	9,809
96	U. OR	43,634	1,766	20,356	4,070	7,071	7,496	2,757	0	118
97	OK State U. all campuses	43,345	647	18,964	361	5,912	38	2,324	3,960	11,139
98	U. CA, Riverside	40,981	4,238	19,122	2,595	5,936	1,770	3,961	6	3,353
99	George Mason U.	39,758	9,713	5,330	8,023	697	1,610	6,571	0	7,814
100	U. AL Huntsville, The	39,607	5,117	1,257	7,438	7,705	10	374	3	17,703
	All other sampled institutions	1,848,676	236,983	739,252	89,244	239,681	79,740	74,426	63,481	325,869

i = imputed.

nec = not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 39. R&D expenditures at private universities and colleges, ranked by all R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	13,653,071	457,819	8,788,052	656,692	1,182,531	214,422	341,741	183,723	1,828,091
1	Johns Hopkins U., The ^a	1,375,014	38,585	619,835	101,850	148,780	5,846	3,167	39,812	417,139
2	Stanford U.	671,046	17,147	373,952	24,193	89,041	8,602	10,895	0	147,216
3	U. PA	596,756	704	480,121	11,068	27,360	5,122	38,184	8,248	25,949
4	Cornell U. all campuses	575,554	5,222	356,441	30,837	86,225	5,388	22,395	0	69,046
5	MA Institute of Technology	543,448	28,648	130,170	49,579	104,868	1,568	6,195	21,647	200,773
6	Duke U.	520,871	11,566	427,955	6,537	17,878	1,939	26,865	0	28,131
7	Washington U. St. Louis	489,565	4,893	443,901	5,915	13,905	4,475	4,049	0	12,427
8	Baylor C. of Medicine	476,075	0	476,075	0	0	0	0	0	0
9	Columbia U. in the City of NY	468,484	54,163	322,159	10,576	36,884	3,865	10,196	5,481	25,160
10	Harvard U.	454,495	15,690	351,469	3,260	41,824	8,245	17,914	0	16,093
11	U. Southern CA	426,665	18,687	233,541	89,524	11,984	4,615	11,347	2,113	54,854
12	Yale U.	422,828	3,522	366,999	6,356	20,136	8,249	5,496	0	12,070
13	Northwestern U.	358,947	911	250,795	4,965	27,063	4,098	9,450	6,368	55,297
14	Vanderbilt U.	318,335	226	250,014	1,113	12,777	9,639	5,330	8,250	30,986
15	U. Rochester	312,303	1,223	218,269	3,939	11,320	14,732	643	1,713	60,464
16	Emory U.	311,685	100	298,183	497	8,774	2,461	1,670	0	0
17	U. Chicago	272,390	4,902	198,802	13,204	45,684	6,346	3,328	0	124
18	CA Institute of Technology	261,098	13,136	44,270	13,098	139,631	0	1,723	9,760	39,480
19	NY U.	259,333	742	209,064	15,201	7,725	14,903	9,118	2,580	0
20	Boston U.	240,867	3,890	164,576	4,565	24,437	6,622	1,085	12,480	23,212
21	Case Western Reserve U.	231,800	738	179,087	658	8,937	680	1,432	0	40,268
22	Mt. Sinai School of Medicine	212,786	0	212,786	0	0	0	0	0	0
23	Carnegie Mellon U.	205,149	219	7,028	103,519	17,471	7,637	11,799	1,484	55,992
24	U. Miami	194,446	44,320	131,424	305	2,526	10,194	2,524	0	3,153
25	Rockefeller U.	192,222	0	177,963	7,247	7,012	0	0	0	0
26	Princeton U.	188,373	17,067	38,198	12,298	31,297	9,863	27,524	0	52,126
27	Yeshiva U.	183,253	0	183,253	0	0	0	0	0	0
28	Dartmouth C.	173,266	1,117	120,511	4,827	5,532	6,070	1,066	11,950	22,193
29	Medical C. WI	139,235	0	139,235	0	0	0	0	0	0
30	Wake Forest U.	133,753	0	130,677	1,105	1,856	0	0	115	0
31	Tulane U.	132,784	897	115,925	2,013	2,942	449	3,653	421	6,484
32	Brown U.	130,741	6,235	68,879	13,558	12,924	2,605	7,156	0	19,384
33	Tufts U.	126,432	856	101,374	1,640	5,374	4,042	5,956	0	7,190
34	Georgetown U.	126,320	0	111,732	356	2,806	777	10,649	0	0
35	Woods Hole Oceanographic Institution	114,087	96,548	0	0	0	0	0	0	17,539
36	Thomas Jefferson U.	112,078	0	112,078	0	0	0	0	0	0
37	George Washington U.	103,473	375	42,195	28,287	3,041	1,125	11,472	148	16,830

TABLE 39. R&D expenditures at private universities and colleges, ranked by all R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
38	Rush U.	89,254	0	86,802	0	0	2,452	0	0	0
39	Drexel U.	76,120	0	35,854	1,573	2,958	1,044	31	0	34,660
40	U. of Notre Dame	74,255	0	12,420	3,577	19,271	3,932	4,531	14,309	16,215
41	U. Dayton	63,734	77	263	349	265	11	6	0	62,763
42	Rice U.	60,872	1,859	9,663	12,821	17,436	910	869	27	17,287
43	Syracuse U. all campuses	58,276	1,130	3,772	6,734	5,544	3,155	7,908	17,887	12,146
44	Rensselaer Polytechnic Institute	56,907	2,689	956	3,839	6,132	0	1,360	0	41,931
45	Charles R. Drew U. of Medicine and Science	51,994	0	51,994	0	0	0	0	0	0
46	Brandeis U.	51,498	0	27,311	1,859	6,363	3,208	12,757	0	0
47	Northeastern U.	47,283	0	8,253	2,633	14,081	3,514	2,665	0	16,137
48	Howard U.	41,404	0	27,232	1,537	4,449	2,748	377	142	4,919
49	St. Louis U. all campuses	41,189 e	819 e	39,869 e	161 e	85 e	60 e	102 e	93 e	0 e
50	Loyola U. Chicago	36,134	8	34,145	156	797	707	321	0	0
51	Eastern VA Medical School	33,798	0	33,798	0	0	0	0	0	0
52	NY Medical C.	33,521	0	33,521	0	0	0	0	0	0
53	Morehouse School of Medicine	33,317	0	33,317	0	0	0	0	0	0
54	Boston C.	32,158 e	514 e	4,395 e	12,544 e	8,225 e	870 e	5,610 e	0 e	0 e
55	Lehigh U.	32,048	1,824	1,968	1,111	5,802	187	47	0	21,109
56	Hampton U.	31,645	24,587	2,977	230	2,447	0	0	0	1,404
57	Loma Linda U.	29,651	0	29,648	0	0	0	3	0	0
58	Meharry Medical C.	27,507	0	27,507	0	0	0	0	0	0
59	Creighton U.	25,451	133	25,142	8	158	0	10	0	0
60	Catholic U. America, The	23,610	0	1,482	0	18,820	1,181	500	0	1,627
61	Brigham Young U. all campuses	23,565	284	5,446	1,230	4,216	623	1,939	9	9,818
62	IL Institute of Technology	22,948	0	4,877	1,172	9,148	434	9	0	7,308
63	Stevens Institute of Technology	22,814	7,875	473	4,259	3,222	0	0	864	6,121
64	Rochester Institute of Technology	19,423	1,171	1,545	422	6,612	0	127	66	9,480
65	Mercer U. all campuses	18,437	0	3,569	64	512	8	8	166	14,110
66	Albany Medical C.	15,562	0	15,562	0	0	0	0	0	0
67	U. Tulsa	15,375	205	1,416	3,713	1,408	32	591	0	8,010
68	Clarkson U.	14,703	0	751	280	3,200	0	0	0	10,472
69	Worcester Polytechnic Institute	14,045	0	486	1,424	648	0	202	0	11,285
70	Clark Atlanta U.	13,576	0	3,919	501	3,337	263	544	3,384	1,628
71	U. Denver	12,500	119	3,546	115	2,839	2,296	311	0	3,274
72	Polytechnic U.	11,627	0	0	2,128	154	0	312	56	8,977
73	Tuskegee U.	11,519	0	7,803	0	216	0	2,325	0	1,175
74	Rosalind Franklin U. of Medicine and Science	10,614	0	10,095	0	0	519	0	0	0
75	Southern Methodist U.	10,432	2,505	1,558	1,179	1,947	600	813	340	1,490

TABLE 39. R&D expenditures at private universities and colleges, ranked by all R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
76	Ponce School of Medicine	10,140	0	10,140	0	0	0	0	0	0
77	Universidad Central del Caribe	9,797	0	9,797	0	0	0	0	0	0
78	Teachers C. Columbia U.	9,684	0	2,060	0	0	3,983	3,641	0	0
79	Marquette U.	9,652	0	3,469	124	889	268	563	49	4,290
80	Embry-Riddle Aeronautical U.	8,558	224	0	56	965	0	0	829	6,484
81	Duquesne U.	8,082	0	5,171	232	2,553	1	125	0	0
82	FL Institute of Technology	7,801	1,264	924	2,451	1,657	216	0	0	1,289
83	Wesleyan U.	7,741	343	3,666	156	2,274	1,217	85	0	0
84	Villanova U.	6,455 i	153 i	504 i	389 i	636 i	134 i	66 i	0 i	4,573 i
85	Alfred U. all campuses	6,395	51	0	0	6	0	0	0	6,338
86	Rose-Hulman Institute of Technology	6,388	0	0	1,876	1,265	0	0	0	3,247
87	Wellesley C.	5,714	38	701	117	723	122	285	3,728	0
88	Bryn Mawr C.	5,664	333	468	544	1,033	1,982	1,304	0	0
89	New School, The	5,642	0	1,626	1,269	0	259	2,488	0	0
90	Clark U.	5,638 e	1,394 e	507 e	32 e	786 e	582 e	31 e	0 e	2,306 e
91	Xavier U. LA	5,585	264	3,429	194	1,511	0	0	0	187
92	Baylor U.	5,242	497	805	396	1,908	277	79	1,205	75
93	Nova Southeastern U.	5,139	3,256	1,206	0	0	293	0	384	0
94	Fisk U.	5,000	0	0	0	5,000	0	0	0	0
95	Union C. (Schenectady, NY)	4,068	125	655	251	369	91	2,120	0	457
96	TX Christian U.	3,960	45	382	44	1,067	2,289	22	0	111
97	DePaul U.	3,748	19	269	397	85	2,685	293	0	0
98	NY Institute of Technology all campuses	3,476	0	2,444	0	0	0	0	0	1,032
99	Fordham U.	3,391	25	1,132	17	23	709	1,485	0	0
100	St. Joseph's U.	3,250	0	437	219	77	157	344	2,016	0
	All other sampled institutions	152,138	11,660	55,989	10,219	31,398	10,246	12,251	5,599	14,776

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$670 million in total R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 40. Federally financed R&D expenditures at private universities and colleges, ranked by federal R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	10,430,296	384,339	6,635,626	553,996	1,006,852	171,992	152,178	80,708	1,444,605
1	Johns Hopkins U., The ^a	1,229,426	36,250	511,573	100,610	146,179	5,218	2,151	16,715	410,730
2	Stanford U.	541,667	12,383	296,305	21,501	81,910	6,864	4,217	0	118,487
3	U. PA	435,343	128	359,857	8,738	23,112	4,889	17,765	3,446	17,408
4	MA Institute of Technology	427,552	24,499	114,695	31,822	102,417	1,380	1,898	6,554	144,287
5	Columbia U. in the City of NY	406,576	52,206	279,442	10,012	32,918	3,756	6,015	1,495	20,732
6	Harvard U.	399,764	13,775	313,278	3,239	38,678	7,769	8,076	0	14,949
7	Washington U. St. Louis	371,043	2,487	339,307	4,352	10,189	3,030	3,348	0	8,330
8	Duke U.	347,896	6,757	278,054	5,882	15,267	1,209	19,525	0	21,202
9	Cornell U. all campuses	339,107	3,184	209,798	18,311	56,657	2,462	7,247	0	41,448
10	Yale U.	330,837	2,949	291,471	5,162	16,383	5,666	979	0	8,227
11	Baylor C. of Medicine	312,669	0	312,669	0	0	0	0	0	0
12	U. Southern CA	312,589	14,623	161,464	83,264	6,303	3,379	4,397	715	38,444
13	Vanderbilt U.	261,484	155	211,056	1,043	11,132	7,655	3,834	477	26,132
14	CA Institute of Technology	244,187	11,340	42,498	13,098	135,480	0	1,662	3,173	36,936
15	Emory U.	243,248	76	232,355	482	7,728	2,163	444	0	0
16	U. Rochester	231,193	1,007	152,592	3,613	9,926	10,461	550	1,174	51,870
17	Northwestern U.	230,593	733	156,686	3,797	20,551	3,312	3,005	3,019	39,490
18	U. Chicago	229,102	4,748	164,749	12,785	37,518	5,926	3,256	0	120
19	Boston U.	219,054	3,452	146,767	4,296	23,839	6,601	578	12,229	21,292
20	Case Western Reserve U.	195,525	738	158,535	658	7,635	632	1,374	0	25,953
21	NY U.	181,441	83	143,913	12,945	6,523	12,179	4,567	1,231	0
22	Carnegie Mellon U.	172,858	219	6,243	93,555	10,135	6,850	9,376	241	46,239
23	Mt. Sinai School of Medicine	170,757	0	170,757	0	0	0	0	0	0
24	Yeshiva U.	151,520	0	151,520	0	0	0	0	0	0
25	U. Miami	141,943	38,590	86,590	305	2,435	9,737	2,337	0	1,949
26	Dartmouth C.	123,109	692	86,002	3,089	3,299	3,907	605	8,823	16,692
27	Wake Forest U.	120,075	0	117,586	1,021	1,468	0	0	0	0
28	Princeton U.	111,435	9,982	26,212	7,262	21,732	7,519	5,755	0	32,973
29	Medical C. WI	100,547	0	100,547	0	0	0	0	0	0
30	Woods Hole Oceanographic Institution	100,456	83,639	0	0	0	0	0	0	16,817
31	Georgetown U.	95,852	0	91,419	346	2,541	743	803	0	0
32	Tufts U.	92,997	303	79,210	1,065	4,746	2,104	213	0	5,356
33	Tulane U.	92,331	620	79,785	1,647	2,209	265	2,740	0	5,065
34	Thomas Jefferson U.	92,296	0	92,296	0	0	0	0	0	0
35	Brown U.	84,126	3,730	48,819	8,302	7,333	1,558	1,426	0	12,958
36	Rockefeller U.	82,535	0	76,439	1,546	4,550	0	0	0	0
37	George Washington U.	78,192	283	27,633	26,856	2,545	1,110	4,564	0	15,201

TABLE 40. Federally financed R&D expenditures at private universities and colleges, ranked by federal R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
38	U. Dayton	56,647	65	136	250	153	0	0	0	56,043
39	Drexel U.	54,963	0	26,811	1,214	2,327	918	0	0	23,693
40	Rush U.	51,706	0	50,023	0	0	1,683	0	0	0
41	Rice U.	51,157	1,741	8,662	11,640	14,824	908	329	0	13,053
42	U. of Notre Dame	48,650	0	10,003	3,342	17,370	3,615	1,319	1,201	11,800
43	Syracuse U. all campuses	43,162	793	3,579	4,264	5,485	3,135	7,012	10,367	8,527
44	Charles R. Drew U. of Medicine and Science	40,430	0	40,430	0	0	0	0	0	0
45	Howard U.	40,086	0	26,544	1,532	4,334	2,748	330	66	4,532
46	Brandeis U.	38,041	0	22,200	1,547	5,321	2,709	6,264	0	0
47	St. Louis U. all campuses	36,989 e	786 e	35,890 e	161 e	57 e	22 e	73 e	0 e	0 e
48	Rensselaer Polytechnic Institute	36,651	1,917	841	2,936	4,241	0	1,114	0	25,602
49	Hampton U.	31,443	24,587	2,972	230	2,250	0	0	0	1,404
50	Northeastern U.	30,659	0	5,515	1,860	10,642	1,939	444	0	10,259
51	Loyola U. Chicago	29,150	1	27,795	156	638	474	86	0	0
52	Loma Linda U.	26,631	0	26,631	0	0	0	0	0	0
53	Meharry Medical C.	26,159	0	26,159	0	0	0	0	0	0
54	NY Medical C.	25,103	0	25,103	0	0	0	0	0	0
55	Morehouse School of Medicine	23,331	0	23,331	0	0	0	0	0	0
56	Boston C.	22,907 e	453 e	3,015 e	8,975 e	6,851 e	637 e	2,976 e	0 e	0 e
57	Stevens Institute of Technology	19,473	7,064	473	3,624	3,111	0	0	148	5,053
58	Lehigh U.	19,400	1,791	1,722	909	2,651	182	0	0	12,145
59	Catholic U. America, The	18,927	0	1,266	0	15,229	1,094	122	0	1,216
60	Eastern VA Medical School	17,530	0	17,530	0	0	0	0	0	0
61	Brigham Young U. all campuses	17,129	203	3,701	1,093	3,327	412	636	0	7,757
62	IL Institute of Technology	14,903	0	4,142	1,049	4,558	396	0	0	4,758
63	Creighton U.	13,745	133	13,454	0	158	0	0	0	0
64	Clark Atlanta U.	13,075	0	3,720	501	3,133	263	478	3,384	1,596
65	Rochester Institute of Technology	12,415	328	1,242	187	4,991	0	107	0	5,560
66	Albany Medical C.	11,849	0	11,849	0	0	0	0	0	0
67	U. Tulsa	11,240	149	1,058	3,525	1,033	20	6	0	5,449
68	U. Denver	9,839	115	2,219	78	2,433	2,050	132	0	2,812
69	Mercer U. all campuses	9,613	0	1,442	0	15	0	7	0	8,149
70	Ponce School of Medicine	9,179	0	9,179	0	0	0	0	0	0
71	Tuskegee U.	8,904	0	6,272	0	194	0	1,536	0	902
72	Universidad Central del Caribe	8,498	0	8,498	0	0	0	0	0	0
73	Worcester Polytechnic Institute	8,489	0	456	1,098	584	0	192	0	6,159
74	Rosalind Franklin U. of Medicine and Science	7,843	0	7,367	0	0	476	0	0	0
75	Southern Methodist U.	6,752	2,203	1,357	750	1,332	437	211	0	462

TABLE 40. Federally financed R&D expenditures at private universities and colleges, ranked by federal R&D expenditures for the first 100 institutions, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Environmental sciences	Life sciences	Math and computer sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
76	Clarkson U.	6,434	0	300	129	1,529	0	0	0	4,476
77	Teachers C. Columbia U.	6,256	0	1,980	0	0	3,149	1,127	0	0
78	Marquette U.	6,046	0	2,957	122	465	235	39	0	2,228
79	FL Institute of Technology	5,575	771	657	1,983	1,500	51	0	0	613
80	Wesleyan U.	5,388	126	2,403	77	1,671	1,111	0	0	0
81	Xavier U. LA	5,226	264	3,098	190	1,496	0	0	0	178
82	Embry-Riddle Aeronautical U.	5,179	174	0	6	697	0	0	703	3,599
83	Fisk U.	5,000	0	0	0	5,000	0	0	0	0
84	Villanova U.	4,669 i	153 i	434 i	244 i	430 i	117 i	0 i	0 i	3,291 i
85	Polytechnic U.	4,660	0	0	1,199	154	0	0	0	3,307
86	Clark U.	4,475 e	1,033 e	376 e	32 e	758 e	501 e	30 e	0 e	1,745 e
87	Wellesley C.	3,708	38	650	0	472	12	202	2,334	0
88	DePaul U.	3,539	19	255	339	77	2,570	279	0	0
89	Duquesne U.	3,479	0	2,031	157	1,225	1	65	0	0
90	TX Christian U.	2,961	18	147	41	429	2,287	14	0	25
91	St. Joseph's U.	2,612	0	402	190	4	0	0	2,016	0
92	Maharishi U. of Management	2,541 e	0 e	2,531 e	10 e	0 e	0 e	0 e	0 e	0 e
93	Spelman C.	2,419	0	1,380	89	645	305	0	0	0
94	New School, The	2,330	0	1,626	460	0	232	12	0	0
95	New England C. of Optometry	1,958	0	1,958	0	0	0	0	0	0
96	Nova Southeastern U.	1,884	1,085	486	0	0	293	0	20	0
97	Ithaca C.	1,807	0	481	1,121	0	205	0	0	0
98	Mt. Holyoke C.	1,800	520	371	308	588	13	0	0	0
99	Gallaudet U.	1,747	0	392	0	0	1,355	0	0	0
100	U. Redlands	1,711	1,617	36	0	57	0	0	0	1
	All other sampled institutions	82,899	6,561	29,966	5,774	19,075	7,093	4,329	1,177	8,924

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$643 million in federally financed R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 41. Total and federally financed academic R&D expenditures passed through to subrecipients: FY 2004

(Dollars in thousands)

Highest degree and control of academic institution	All R&D expenditures ^a	Item 1A respondents' R&D expenditures ^b	R&D expenditures passed through to subrecipients		
			Total ^c	Educational subrecipients	Other subrecipients
Total R&D, all institutions	42,746,686	37,494,310	2,727,683	1,263,717	982,233
Doctorate	42,128,755	36,900,098	2,692,207	1,245,033	968,779
Nondoctorate	617,931	594,212	35,476	18,684	13,454
Public	29,119,597	23,965,937	1,563,896	765,479	559,316
Private	13,627,089	13,528,373	1,163,787	498,238	422,917
Federally financed R&D, all institutions	27,237,503	24,265,416	2,374,562	1,144,369	802,832
Doctorate	26,846,063	23,886,429	2,354,387	1,130,444	798,388
Nondoctorate	391,440	378,987	20,175	13,925	4,444
Public	16,823,376	13,918,219	1,354,169	690,015	462,388
Private	10,414,127	10,347,197	1,020,393	454,354	340,444

^a Total is amount prior to imputation for nonrespondents.

^b Survey item 1A collects data on R&D expenditures passed through to subrecipients.

^c Detail may not add to total because of rounding and because some institutions provided only total and federal R&D expenditure data passed through to subrecipients.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 42. Total and federally financed academic R&D expenditures received as a subrecipient: FY 2004
(Dollars in thousands)

Highest degree and control of academic institution	All R&D expenditures ^a	Item 1B respondents' R&D expenditures ^b	R&D expenditures received as a subrecipient		
			Total ^c	Higher education pass-through entities	Other pass-through entities
Total R&D, all institutions	42,746,686	41,748,028	3,005,402	1,374,799	1,312,130
Doctorate	42,128,755	41,168,961	2,948,782	1,345,415	1,286,878
Nondoctorate	617,931	579,067	56,620	29,384	25,252
Public	29,119,597	28,218,385	1,871,753	836,785	867,751
Private	13,627,089	13,529,643	1,133,649	538,014	444,379
Federally financed R&D, all institutions	27,237,503	26,654,520	2,676,438	1,237,080	1,148,788
Doctorate	26,846,063	26,284,421	2,630,727	1,211,935	1,128,243
Nondoctorate	391,440	370,099	45,711	25,145	20,545
Public	16,823,376	16,306,290	1,659,476	752,342	758,113
Private	10,414,127	10,348,230	1,016,962	484,738	390,675

^a Total is amount prior to imputation for nonrespondents.

^b Survey item 1B collects data on R&D expenditures received as a subrecipient.

^c Detail may not add to total because of rounding and because some institutions provided only total and federal R&D expenditure data received as a subrecipient.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
	All institutions	42,265,471	2,727,683	1,263,717	982,233	3,005,402	1,374,799	1,312,130
1	Johns Hopkins U., The ^a	1,375,014	114,006	NA	NA	56,126	NA	NA
2	U. CA, Los Angeles	772,569	NA	NA	NA	15,427	9,654	5,773
3	U. MI all campuses	769,126	50,917	27,515	23,402	66,584	26,369	40,215
4	U. WI Madison	763,875	43,316	22,976	20,340	50,232	23,432	26,800
5	U. CA, San Francisco	728,321	NA	NA	NA	160	0	160
6	U. WA	713,976	0	0	0	0	0	0
7	U. CA, San Diego	708,690	NA	NA	NA	0	0	0
8	Stanford U.	671,046	77,632	536	77,096	76,563	36,695	39,868
9	PA State U. all campuses	600,139	NA	NA	NA	24,207	24,207	0
10	U. PA	596,756	64,682	38,619	26,063	41,804	19,049	22,755
11	Cornell U. all campuses	575,554	32,039	NA	NA	39,018	16,399	22,619
12	MA Institute of Technology	543,448	31,475	15,825	15,650	82,264	33,639	48,625
13	U. CA, Berkeley	525,598	NA	NA	NA	674	0	674
14	Duke U.	520,871	60,631	38,886	21,745	31,283	21,779	9,504
15	OH State U. all campuses	518,088	35,015	12,024	22,991	55,668	23,779	31,889
16	U. MN all campuses	515,061	42,837	NA	NA	30,841	NA	NA
17	U. CA, Davis	511,757	NA	NA	NA	381	241	140
18	U. IL Urbana-Champaign	506,041	38,728	30,219	8,509	40,594	17,715	22,879
19	Washington U. St. Louis	489,565	28,389	21,572	6,817	27,311	17,071	10,240
20	U. CO all campuses	482,992	53,704	26,453	27,251	58,168	33,486	24,682
21	U. AZ	478,680	57,501	43,126	14,375	58,093	39,326	18,767
22	Baylor C. of Medicine	476,075	35,752	30,135	5,617	15,545	11,511	4,034
23	Columbia U. in the City of NY	468,484	43,827	24,543	19,284	42,875	18,442	24,433
24	U. Pittsburgh all campuses	461,693	29,941	15,270	14,671	34,685	17,872	16,813
25	TX A&M U. all campuses	456,809	19,759	6,838	12,921	26,321	14,401	11,920
26	Harvard U.	454,495	63,682	21,156	42,526	48,282	15,309	32,973
27	U. FL	447,146	28,949	26,054	2,895	24,766	8,170	16,596
28	U. Southern CA	426,665	44,437	16,311	28,126	40,595	22,730	17,865
29	Yale U.	422,828	32,172	NA	NA	27,189	NA	NA
30	U. NC Chapel Hill	416,727	37,804	17,552	20,252	27,325	16,739	10,586
31	GA Institute of Technology all campuses	410,799	26,987	NA	NA	38,881	NA	NA
32	IN U. all campuses	384,168	18,742	8,954	9,788	16,548	10,240	6,308
33	Purdue U. all campuses	365,779	18,399	14,213	4,186	30,396	10,682	19,714
34	Northwestern U.	358,947	18,037	NA	NA	35,739	NA	NA
35	U. TX M. D. Anderson Cancer Ctr.	353,034	12,098	7,098	5,000	13,667	9,611	4,056
36	U. TX Austin	343,886	18,286	7,335	10,951	41,506	19,728	21,778
37	LA State U. all campuses	341,634	11,378	8,991	2,387	13,921	8,945	4,976

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
38	U. MD College Park	325,648	20,766	0	20,766	27,130	7,772	19,358
39	MI State U.	325,438	17,368	13,385	3,983	18,919	9,384	9,535
40	Vanderbilt U.	318,335	19,588	13,223	6,365	26,224	13,414	12,810
41	U. MD Baltimore	317,293	0	0	0	0	0	0
42	U. TX Southwestern Medical Ctr. Dallas	314,403	16,963	11,308	5,655	13,621	9,655	3,966
43	U. GA	313,160	16,921	NA	NA	7,439	NA	NA
44	U. IA	312,914	15,857	NA	NA	15,893	NA	NA
45	U. Rochester	312,303	18,760	10,356	8,404	22,266	NA	NA
46	Emory U.	311,685	19,075	11,085	7,990	37,912	16,183	21,729
47	U. AL Birmingham, The	310,950	29,009	NA	NA	35,953	18,596	17,357
48	U. IL Chicago	307,699	15,353	7,444	7,909	20,252	9,682	10,570
49	U. NE all campuses	299,090	18,715	13,702	5,013	20,385	9,670	10,715
50	U. KY all campuses	297,610	15,926	15,926	0	20,556	8,713	11,843
51	Rutgers, The State U. NJ all campuses	296,534	22,603	16,680	5,923	24,965	13,709	11,256
52	NC State U.	292,720	17,839	8,864	8,975	14,550	10,048	4,502
53	U. Cincinnati all campuses	276,326	15,059	6,197	8,862	12,668	4,455	8,213
54	U. Chicago	272,390	18,670	13,078	5,592	25,396	17,836	7,560
55	VA Polytechnic Institute and State U.	268,752	14,292	7,170	7,122	17,428	7,658	9,770
56	CA Institute of Technology	261,098	29,728	NA	NA	33,169	22,152	11,017
57	NY U.	259,333	12,620	9,779	2,841	15,581	13,914	1,667
58	SUNY Buffalo all campuses	258,952	10,510	7,440	3,070	NA	NA	NA
59	U. CA, Irvine	257,024	NA	NA	NA	0	0	0
60	OR Health & Science U.	254,447	16,334	7,056	9,278	16,433	8,387	8,046
61	Boston U.	240,867	20,379	11,231	9,148	24,188	13,895	10,293
62	U. South FL	240,021	29,201	NA	NA	NA	NA	NA
63	U. UT	237,159	9,827	5,405	4,422	19,752	9,476	10,276
64	U. HI Manoa	236,368	20,103	5,364	14,739	19,986	5,472	14,514
65	Case Western Reserve U.	231,800	5,141	5,141	0	19,237	19,237	0
66	U. TN all campuses	228,760	12,388	7,932	4,456	15,677	8,737	6,940
67	U. VA all campuses	228,532	17,403	12,865	4,538	1,191	0	1,191
68	Wayne State U.	225,475	11,115	6,755	4,360	9,650	4,879	4,771
69	U. MO-Columbia	217,550	10,545	4,753	5,792	10,660	5,768	4,892
70	CO State U.	214,888	NA	NA	NA	19,925	5,220	14,705
71	SUNY Stony Brook all campuses	213,547	7,921	573	7,348	31,074	6,296	24,778
72	Mt. Sinai School of Medicine	212,786	17,965	17,965	0	15,440	9,670	5,770
73	IA State U.	211,996	14,423	10,781	3,642	12,357	NA	NA
74	U. CT all campuses	211,236	11,093	7,395	3,698	18,087	6,727	11,360
75	U. of Medicine and Dentistry NJ	209,134	12,638	12,638	0	3,447	3,447	0

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
76	Carnegie Mellon U.	205,149	22,682	13,553	9,129	43,267	20,740	22,527
77	SUNY Albany	203,977	6,574	1,112	5,462	18,966	10,935	8,031
78	U. Miami	194,446	16,083	4,958	11,125	8,290	4,741	3,549
79	Rockefeller U.	192,222	7,495	7,495	0	5,428	5,428	0
80	MS State U.	191,352	19,344	14,704	4,640	13,774	5,217	8,557
81	Princeton U.	188,373	18,384	12,041	6,343	11,596	8,311	3,285
82	Yeshiva U.	183,253	9,630	9,630	0	4,000	4,000	0
83	U. KS all campuses	181,192	16,952	8,240	8,712	24,710	6,894	17,816
84	Dartmouth C.	173,266	18,928	8,163	10,765	10,986	6,413	4,573
85	WA State U.	171,735	10,032	6,335	3,697	9,781	6,315	3,466
86	OR State U.	170,286	9,186	7,204	1,982	15,414	8,371	7,043
87	U. NM all campuses	170,085	8,959	6,661	2,298	18,021	6,988	11,033
88	U. MA Worcester	169,090	8,429	8,429	0	12,933	4,255	8,678
89	FL State U.	168,132	19,754	6,681	13,073	21,809	4,638	17,171
90	U. TX Medical Branch	166,798	9,773	5,423	4,350	5,482	4,789	693
91	Medical U. SC	163,179	8,689	4,520	4,169	11,205	4,385	6,820
92	Clemson U.	158,585	6,904	NA	NA	14,365	NA	NA
93	U. OK all campuses	158,578	10,096	5,961	4,135	20,501	7,025	13,476
94	AZ State U. main campus	152,164	6,922	5,011	1,911	18,099	7,242	10,857
95	U. CA, Santa Barbara	151,325	NA	NA	NA	782	746	36
96	U. TX Health Science Ctr. Houston	147,328	15,621	14,236	1,385	14,543	10,365	4,178
97	Medical C. WI	139,235	10,677	4,675	6,002	6,646	4,627	2,019
98	U. TX Health Science Ctr. San Antonio	137,039	18,428	9,871	8,557	8,014	4,212	3,802
99	Wake Forest U.	133,753	15,103	10,958	4,145	10,544	7,366	3,178
100	VA Commonwealth U.	132,839	6,367	4,043	2,324	6,482	3,727	2,755
101	Tulane U.	132,784	9,890	5,452	4,438	21,178	13,361	7,817
102	U. AK Fairbanks all campuses	132,212	8,887	NA	NA	9,412	NA	NA
103	Brown U.	130,741	11,455	5,881	5,574	6,644	2,898	3,746
104	Tufts U.	126,432	5,788	2,856	2,932	9,800	4,922	4,878
105	Georgetown U.	126,320	9,668	3,964	5,704	10,116	5,139	4,977
106	Auburn U. all campuses	125,705	5,222	5,222	0	13,054	4,903	8,151
107	U. SC all campuses	121,671	6,960	6,960	0	19,356	19,356	0
108	U. MA Amherst	120,788	5,049	5,049	0	3,084	3,084	0
109	KS State U.	119,306	9,516	7,357	2,159	12,556	5,519	7,037
110	U. VT	114,120	5,356	2,521	2,835	7,547	4,031	3,516
111	Woods Hole Oceanographic Institution	114,087	4,538	4,538	0	12,164	12,164	0
112	Thomas Jefferson U.	112,078	7,734	6,271	1,463	12,238	6,595	5,643
113	U. Louisville	110,653	4,931	2,958	1,973	7,229	4,337	2,892
114	U. CA, Riverside	110,627	NA	NA	NA	61	61	0

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

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			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
115	U. DE	109,985	7,884	NA	NA	9,729	5,024	4,705
116	WV U.	108,002	10,689	4,190	6,499	14,606	5,631	8,975
117	U. NH	103,935	14,205	NA	NA	13,898	3,822	10,076
118	OK State U. all campuses	103,915	9,194	NA	NA	12,189	NA	NA
119	George Washington U.	103,473	27,431	12,697	14,734	8,061	4,311	3,750
120	ND State U. all campuses	102,115	7,184	3,747	3,437	4,007	2,926	1,081
121	MT State U. Bozeman	97,696	12,438	NA	NA	14,595	NA	NA
122	U. CA, Santa Cruz	94,297	NA	NA	NA	847	756	91
123	NM State U. all campuses	93,329	11,806	3,502	8,304	14,091	3,989	10,102
124	U. ID	93,246	6,239	5,602	637	9,216	3,718	5,498
125	U. CA Office of the President	90,233	NA	NA	NA	0	0	0
126	Uniformed Services U. of the Health Sciences	89,999	0	0	0	0	0	0
127	Rush U.	89,254	5,225	5,225	0	8,446	7,096	1,350
128	U. AR main campus	88,918	2,608	2,131	477	4,439	1,988	2,451
129	U. NV, Reno	83,552	3,627	2,687	940	12,659	9,480	3,179
130	U. ME	81,216	3,842	1,253	2,589	7,092	2,150	4,942
131	U. MS all campuses	79,867	13,231	10,205	3,026	10,963	8,917	2,046
132	Drexel U.	76,120	12,307	NA	NA	7,700	NA	NA
133	Temple U.	76,055	4,569	3,260	1,309	8,677	5,087	3,590
134	NJ Institute of Technology	74,998	8,317	2,310	6,007	11,480	1,744	9,736
135	U. of Notre Dame	74,255	6,984	5,347	1,637	6,190	3,601	2,589
136	U. AR for Medical Sciences	74,063	9,789	9,789	0	3,870	3,870	0
137	San Diego State U.	66,710	9,192	4,485	4,707	3,822	3,706	116
138	TX A&M U. System Health Science Ctr.	64,170	2,095	1,433	662	2,237	2,227	10
139	U. Dayton	63,734	15,846	2,388	13,458	8,392	1,365	7,027
140	FL International U.	63,545	7,181	0	7,181	6,989	4,543	2,446
141	U. Houston	60,962	6,511	NA	NA	3,681	NA	NA
142	U. RI	60,947	6,452	5,987	465	2,761	2,559	202
143	Rice U.	60,872	6,014	5,827	187	10,683	9,541	1,142
144	U. WY	60,054 e	1,514 e	0 e	1,514 e	2,702 e	0 e	2,702 e
145	Medical C. GA	58,808	2,362	1,358	1,004	2,459	2,242	217
146	Syracuse U. all campuses	58,276	7,525	4,365	3,160	4,647	3,388	1,259
147	TX Tech U.	57,592	1,930	1,823	107	3,954	2,564	1,390
148	Rensselaer Polytechnic Institute	56,907	4,013	3,318	695	9,818	5,278	4,540
149	U. LA Lafayette	55,218	353	321	32	2,331	860	1,471
150	Southern IL U. Carbondale	53,953	6,610	1,117	5,493	3,709	1,380	2,329
151	Charles R. Drew U. of Medicine and Science	51,994	1,449	1,449	0	5,736	5,736	0
152	U. OR	51,956	3,130	2,557	573	4,040	1,710	2,330

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			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
153	Brandeis U.	51,498	2,469	1,096	1,373	3,929	1,901	2,028
154	U. MT, The	51,078	3,813	1,842	1,971	6,265	4,154	2,111
155	U. ND all campuses	49,595	2,383	2,236	147	5,650	1,836	3,814
156	C. of William and Mary all campuses	49,420	5,124	3,241	1,883	5,935	2,307	3,628
157	U. AL Huntsville, The	49,259	3,787	1,644	2,143	4,976	2,994	1,982
158	U. MD Biotechnology Institute	48,278	2,056	1,335	721	4,904	4,614	290
159	George Mason U.	46,210	21,807	571	21,236	1,421	1,214	207
160	GA State U.	45,415	4,631	3,198	1,433	5,527	2,983	2,544
161	U. Memphis, The	44,120	637	266	371	5,673	1,890	3,783
162	San Francisco State U.	42,903	2,420	2,420	0	3,173	3,173	0
163	Howard U.	41,404	6,300	6,300	0	6,642	6,642	0
164	U. MO-Rolla	41,242	3,699	1,036	2,663	2,536	789	1,747
165	St. Louis U. all campuses	41,189 e	3,351 e	2,244 e	1,107 e	1,929 e	1,173 e	756 e
166	U. MD Ctr. for Environmental Science	39,631	4,612	1,845	2,767	3,963	0	3,963
167	OH U. all campuses	38,704	3,240	2,186	1,054	4,682	1,368	3,314
168	NM Institute of Mining and Technology	38,476	4,187	332	3,855	9,837	3,067	6,770
169	Wright State U. all campuses	38,052	1,689	1,206	483	6,398	2,802	3,596
170	Loyola U. Chicago	36,134	1,448	1,448	0	5,920	1,885	4,035
171	U. Southern MS	35,908	6,658	4,663	1,995	8,110	4,583	3,527
172	MI Technological U.	35,670	1,303	757	546	4,958	NA	NA
173	CUNY Hunter C.	34,931	2,481	418	2,063	554	68	486
174	Old Dominion U.	34,819	2,428	1,770	658	12,421	5,359	7,062
175	Desert Research Institute	34,783	2,326	1,811	515	7,500	3,412	4,088
176	U. PR Medical Sciences Campus	34,092	1,358	1,358	0	2,001	862	1,139
177	U. AL, The	33,835	7,149	6,243	906	5,433	2,930	2,503
178	Eastern VA Medical School	33,798	14,226	3,300	10,926	5,881	1,058	4,823
179	NY Medical C.	33,521	748	500	248	1,620	579	1,041
180	Morehouse School of Medicine	33,317	1,059	997	62	1,563	1,144	419
181	SUNY Upstate Medical U.	32,090	2,201	533	1,668	2,902	2,207	695
182	Lehigh U.	32,048	2,936	2,807	129	1,574	995	579
183	U. MO-Kansas City	31,968	1,692	996	696	1,506	885	621
184	Hampton U.	31,645	18,925	18,345	580	1,897	1,701	196
185	Jackson State U.	31,641	6,477	4,120	2,357	2,577	1,166	1,411
186	FL A&M U.	31,408	0	0	0	0	0	0
187	U. TX Dallas	31,274	1,998	1,563	435	3,906	2,660	1,246
188	U.S. Air Force Academy	29,998	0	0	0	0	0	0
189	Wichita State U.	29,948	376	166	210	1,504	1,500	4
190	Loma Linda U.	29,651	11,200	4	11,196	1,930	108	1,822

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			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
191	SD State U.	29,564	3,710	3,710	0	5,127	2,439	2,688
192	San Jose State U.	29,268	3,338	NA	NA	1,984	NA	NA
193	U. WI Milwaukee	28,268	1,528	954	574	2,421	1,238	1,183
194	U. Toledo	27,708	974	828	146	2,378	731	1,647
195	Meharry Medical C.	27,507	1,380	982	398	2,307	2,302	5
196	U. Akron all campuses	27,488	609	266	343	2,110	680	1,430
197	CO School of Mines	27,087	3,743	1,150	2,593	3,432	752	2,680
198	CUNY City C.	25,947	3,599	NA	NA	1,939	668	1,271
199	Creighton U.	25,451	871	812	59	4,648	4,632	16
200	U. TX El Paso	25,440	6,663	2,085	4,578	4,639	2,208	2,431
201	SUNY Binghamton	25,405	933	602	331	0	0	0
202	FL Atlantic U.	23,767	1,728	910	818	2,235	459	1,776
203	Catholic U. America, The	23,610	522	62	460	11,517	515	11,002
204	Brigham Young U. all campuses	23,565	1,983	1,624	359	4,222	2,701	1,521
205	IL Institute of Technology	22,948	3,641	2,252	1,389	4,835	1,705	3,130
206	Stevens Institute of Technology	22,814	2,546	NA	NA	576	NA	NA
207	U. MA Lowell	22,163	1,242	310	932	3,389	0	3,389
208	Portland State U.	21,433 e	1,412 e	1,110 e	302 e	5,408 e	2,052 e	3,356 e
209	Marshall U.	20,221	1,968	1,748	220	6,281	3,905	2,376
210	Medical C. OH	20,159	871	556	315	1,056	817	239
211	U. South AL	20,096	1,359	NA	NA	1,747	1,234	513
212	Northern AZ U.	19,967	1,269	382	887	922	668	254
213	TX Tech U. Health Science Ctr.	19,827	175	128	47	1,475	1,158	317
214	NC Agricultural and Technical State U.	19,534	1,409	914	495	3,013	1,903	1,110
215	Rochester Institute of Technology	19,423	3,057	2,286	771	1,200	599	601
216	U. TX Arlington	19,003	1,214	436	778	2,198	1,656	542
217	Southern IL U. Edwardsville	18,973	59	59	0	389	389	0
218	U. North TX Health Science Ctr. Ft. Worth	18,520	35	35	0	1,207	1,207	0
219	Mercer U. all campuses	18,437	1,849	151	1,698	4,560	368	4,192
220	U. MA Dartmouth	18,074	2,209	1,385	824	3,310	1,053	2,257
221	U. of the VI	17,874	0	0	0	2,804	0	2,804
222	AL A&M U.	17,429	1,742	1,451	291	2,255	2,040	215
223	U. NC Charlotte	17,425	3,363	700	2,663	4,343	976	3,367
224	Cleveland State U.	16,888	1,157	204	953	1,106	474	632
225	U. PR Mayaguez Campus	16,686	50	50	0	60	60	0
226	LA Tech U.	16,118	1,218	1,218	0	216	61	155
227	U. TX San Antonio	15,738	750	658	92	896	692	204
228	Albany Medical C.	15,562	388	287	101	217	133	84
229	U. SD	15,523	855	132	723	1,164	676	488

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
230	U. MA Boston	15,460	1,277	906	371	2,005	1,417	588
231	Miami U. all campuses	15,377	316	316	0	1,815	411	1,404
232	U. Tulsa	15,375	2,032	1,319	713	755	277	478
233	TN State U.	15,255	50	50	0	49	49	0
234	CA State U. Fresno	15,211	6,000	3,000	3,000	482	220	262
235	Clarkson U.	14,703	1,151	880	271	3,196	2,519	677
236	ID State U.	14,385	205	155	50	3,729	2,154	1,575
237	U. NC Wilmington	14,381	2,334	1,146	1,188	1,639	768	871
238	Worcester Polytechnic Institute	14,045	853	685	168	2,924	1,206	1,718
239	Western MI U.	13,912	1,136	751	385	1,620	1,154	466
240	Clark Atlanta U.	13,576	1,244	906	338	3,157	2,099	1,058
241	East Carolina U.	13,296	1,145	800	345	1,146	283	863
242	U. AK Anchorage all campuses	13,285	0	0	0	NA	NA	NA
243	Air Force Institute of Technology	13,001	0	0	0	12	12	0
244	Kent State U. all campuses	12,712	943	307	636	1,785	721	1,064
245	U. Denver	12,500	960	895	65	1,521	754	767
246	U. MO-St. Louis	12,429	604	522	82	877	574	303
247	U. PR Rio Piedras Campus	12,417	518	518	0	300	300	0
248	TX A&M U. Corpus Christi	12,266	0	0	0	1,024	800	224
249	U. North TX	11,958	1,289	703	586	689	129	560
250	Northern IL U.	11,687	1,076	539	537	680	544	136
251	Polytechnic U.	11,627	511	511	0	1,025	900	125
252	TX A&M U. Kingsville	11,102	250	189	61	4,053	1,172	2,881
253	Prairie View A&M U.	10,989	1,025	171	854	376	284	92
254	SD School of Mines and Technology	10,626	491	344	147	2,085	1,074	1,011
255	Rosalind Franklin U. of Medicine and Science	10,614	0	0	0	0	0	0
256	Southern Methodist U.	10,432	36	36	0	1,701	927	774
257	CA State U. Northridge	10,305	326	196	130	391	314	77
258	Ponce School of Medicine	10,140	0	0	0	1,004	0	1,004
259	CA State U. Long Beach	9,877	2,941	NA	NA	672	525	147
260	Universidad Central del Caribe	9,797	0	0	0	1,434	95	1,339
261	Teachers C. Columbia U.	9,684	1,797	NA	NA	1,660	NA	NA
262	Marquette U.	9,652	1,054	918	136	881	462	419
263	U. GU	9,458	452	452	0	1,705	1,705	0
264	CA State Polytechnic U. San Luis Obispo	9,417	1,482	313	1,169	1,703	358	1,345
265	TX State U. San Marcos	9,130	815	697	118	4,422	1,420	3,002
266	TN Technological U.	8,779	252	242	10	1,080	248	832
267	CA State U. San Bernardino	8,755	1,971	827	1,144	263	160	103

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
268	CA State U. Los Angeles	8,728	354	316	38	700	436	264
269	Morgan State U.	8,580	0	0	0	830	309	521
270	Embry-Riddle Aeronautical U.	8,558	1,584	265	1,319	1,376	43	1,333
271	Bowling Green State U. all campuses	8,271	504	331	173	850	589	261
272	Duquesne U.	8,082	205	205	0	577	457	120
273	U. West FL	7,805	2,414	1,881	533	1,258	539	719
274	FL Institute of Technology	7,801	0	0	0	872	206	666
275	East TN State U.	7,788	0	0	0	0	0	0
276	Wesleyan U.	7,741	391	51	340	306	86	220
277	Alcorn State U.	7,622	0	0	0	0	0	0
278	Ball State U.	7,483	1,578	600	978	2,149	402	1,747
279	Tarleton State U.	7,194	0	0	0	657	0	657
280	CUNY Queens C.	6,819	820	312	508	2,976	209	2,767
281	Oakland U.	6,616	0	0	0	95	4	91
282	Alfred U. all campuses	6,395	65	65	0	341	61	280
283	Rose-Hulman Institute of Technology	6,388	0	0	0	0	0	0
284	U. AR Pine Bluff	6,246	0	0	0	1,512	815	697
285	Norfolk State U.	6,200	29	29	0	97	97	0
286	Rowan U.	6,177	211	211	0	2,342	1,061	1,281
287	U.S. Naval Academy	5,985	0	0	0	0	0	0
288	VA State U.	5,953	0	0	0	0	0	0
289	MT Tech of the U. MT	5,952	295	80	215	3,088	597	2,491
290	Western KY U.	5,729	3,499	1,652	1,847	925	738	187
291	Wellesley C.	5,714	619	352	267	1,499	757	742
292	Central MI U.	5,681	680	0	680	292	0	292
293	Bryn Mawr C.	5,664	0	0	0	168	157	11
294	New School, The	5,642	1,335	180	1,155	0	0	0
295	Clark U.	5,638 e	221 e	0 e	221 e	230 e	165 e	65 e
296	Northeastern OH Universities C. of Medicine	5,601	407	100	307	185	38	147
297	Xavier U. LA	5,585	204	204	0	2,117	1,868	249
298	James Madison U.	5,442	31	31	0	1,596	1,432	164
299	CA State U. Dominguez Hills	5,320	49	21	28	427	127	300
300	Baylor U.	5,242	215	0	215	792	253	539
301	Nova Southeastern U.	5,139	78	68	10	412	159	253
302	CUNY Graduate Ctr.	5,106	0	0	0	0	0	0
303	U. LA Monroe	5,086	0	0	0	720	720	0
304	Fisk U.	5,000	0	0	0	100	0	100
305	U. HI Hilo	4,978	0	0	0	384	384	0

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
306	C. Charleston	4,875	565	540	25	1,123	708	415
307	U. DC	4,693	0	0	0	1,585	8	1,577
308	Western WA U.	4,519	16	16	0	305	305	0
309	IL State U.	4,498	255	206	49	951	231	720
310	CA State U. Fullerton	4,432	599	599	0	236	236	0
311	Grand Valley State U.	4,408	0	0	0	251	15	236
312	Southern U. and A&M C. all campuses	4,317	1,029	NA	NA	622	NA	NA
313	U. AR Little Rock	4,127	0	0	0	1,445	59	1,386
314	TX Southern U.	4,088	48	48	0	1,441	1,055	386
315	Union C. (Schenectady, NY)	4,068	0	0	0	196	6	190
316	CA State Polytechnic U. Pomona	4,059	0	0	0	819	396	423
317	Murray State U.	4,059	760	358	402	828	729	99
318	TX Christian U.	3,960	0	0	0	211	71	140
319	CUNY Brooklyn C.	3,917	298	298	0	652	431	221
320	West TX A&M U.	3,879	0	0	0	0	0	0
321	U. NC Greensboro	3,762	1,338	554	784	1,911	1,388	523
322	DePaul U.	3,748	154	0	154	493	490	3
323	U. TX-Pan American	3,747	188	188	0	588	113	475
324	Stephen F. Austin State U.	3,663	62	62	0	26	26	0
325	Langston U.	3,578	0	0	0	0	0	0
326	SC State U.	3,548	10	10	0	10	10	0
327	NY Institute of Technology all campuses	3,476	143	0	143	0	0	0
328	Fordham U.	3,391	250	250	0	363	363	0
329	U. PR Humacao U. C.	3,382	33	33	0	39	39	0
330	Lamar U.	3,365	1,367	1,367	0	879	460	419
331	KY State U.	3,298	0	0	0	157	148	9
332	CUNY Herbert H. Lehman C.	3,291	0	0	0	1	1	0
333	Eastern MI U.	3,266	104	0	104	950	538	412
334	St. Joseph's U.	3,250	496	74	422	34	34	0
335	Milwaukee School of Engineering	3,146	0	0	0	506	0	506
336	Central WA U.	3,134	0	0	0	92	92	0
337	Hampshire C.	3,051	190	67	123	99	99	0
338	U. North FL	3,029	1,285	156	1,129	402	326	76
339	CA State U. Monterey Bay	3,002	0	0	0	135	135	0
340	U. of the Pacific	2,961	142	23	119	224	166	58
341	Southwest MO State U.	2,935	237	99	138	324	138	186
342	Mt. Holyoke C.	2,877	71	50	21	260	69	191
343	Midwestern U. (Chicago, IL)	2,816	0	0	0	107	107	0
344	CUNY C. Staten Island	2,730	0	0	0	237	237	0

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
345	Smith C.	2,631	0	0	0	237	228	9
346	Albany State U.	2,619	0	0	0	NA	NA	NA
347	Amherst C.	2,604	49	49	0	123	123	0
348	Ft. Valley State U.	2,596	76	76	0	282	282	0
349	Maharishi U. of Management	2,541 e	1,844 e	1,844 e	0 e	10 e	10 e	0 e
350	Spelman C.	2,481	0	0	0	283	283	0
351	SUNY C. of Optometry	2,435	0	0	0	0	0	0
352	Middle TN State U.	2,421	0	0	0	0	0	0
353	Western Carolina U.	2,414	206	206	0	89	89	0
354	OR Institute of Technology	2,378	0	0	0	0	0	0
355	SUNY C. Buffalo	2,375	0	0	0	0	0	0
356	Macalester C.	2,371	0	0	0	0	0	0
357	Indiana U. PA all campuses	2,368	NA	NA	NA	393	393	0
358	New England C. of Optometry	2,297	0	0	0	149	149	0
359	Claremont Graduate U.	2,295	287	230	57	299	299	0
360	Hope C.	2,213	0	0	0	0	0	0
361	Swarthmore C.	2,200	175	149	26	456	74	382
362	Lincoln U. (Jefferson City, MO)	2,181	0	0	0	0	0	0
363	Ithaca C.	2,152	816	417	399	198	198	0
364	TX Woman's U.	2,120	161	23	138	326	320	6
365	Pittsburg State U.	2,101	0	0	0	134	134	0
366	Savannah State U.	2,094	160	160	0	478	366	112
367	Bowdoin C.	2,073	0	0	0	248	170	78
368	SUNY C. Oswego	2,055	NA	NA	NA	42	0	42
369	GA Southern U.	2,042	0	0	0	522	440	82
370	U. WI Stevens Point	2,042	12	0	12	85	42	43
371	U. Redlands	2,038	69	52	17	12	0	12
372	NM Highlands U.	2,032	244	244	0	222	222	0
373	Christopher Newport U.	2,029	0	0	0	56	56	0
374	St. Cloud State U.	2,005	0	0	0	0	0	0
375	Pomona C.	1,996	0	0	0	43	43	0
376	U. Northern CO	1,966	155	0	155	699	588	111
377	U. WI La Crosse	1,963	69	25	44	272	63	209
378	West Chester U. PA	1,956	0	0	0	263	263	0
379	Seton Hall U.	1,941	0	0	0	0	0	0
380	Grambling State U.	1,934	158	158	0	412	412	0
381	Colgate U.	1,927	4	4	0	105	105	0
382	Fairfield U.	1,926	0	0	0	199	15	184

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
383	Calvin C.	1,907	0	0	0	0	0	0
384	Carleton C.	1,897	0	0	0	0	0	0
385	Bowie State U.	1,883	0	0	0	141	141	0
386	Youngstown State U.	1,831	0	0	0	0	0	0
387	Bucknell U.	1,817	0	0	0	41	26	15
388	Lafayette C.	1,806	175	175	0	364	364	0
389	Gallaudet U.	1,804	0	0	0	706	706	0
390	American U.	1,745	0	0	0	275	144	131
391	U. WI Green Bay	1,739	0	0	0	752	538	214
392	CUNY York C.	1,710	0	0	0	0	0	0
393	AL State U.	1,688	200	200	0	500	500	0
394	Southeastern LA U.	1,681	61	59	2	NA	NA	NA
395	IN State U. all campuses	1,680	117	117	0	172	137	35
396	Haverford C.	1,679	0	0	0	108	108	0
397	U. NC Asheville	1,644	268	0	268	218	181	37
398	Bradley U.	1,638	39	34	5	188	152	36
399	U. Richmond	1,625	2	2	0	131	131	0
400	Dickinson C.	1,608	56	56	0	175	175	0
401	Furman U.	1,556	0	0	0	684	466	218
402	U. Scranton	1,528	155	15	140	366	0	366
403	Barnard C.	1,516 e	96 e	96 e	0 e	40 e	40 e	0 e
404	PA C. of Optometry	1,509	0	0	0	302	302	0
405	U. IL Springfield	1,491	16	0	16	72	0	72
406	Morehead State U.	1,443	60	60	0	377	377	0
407	WV State C.	1,433	0	0	0	0	0	0
408	Trinity U.	1,428	58	58	0	52	13	39
409	U. Northern IA	1,424	0	0	0	168	148	20
410	FL Gulf Coast U.	1,407	0	0	0	0	0	0
411	Hamilton C. (Clinton, NY)	1,393	0	0	0	14	11	3
412	Long Island U. all campuses	1,377	0	0	0	0	0	0
413	Western U. of Health Sciences	1,330	24	0	24	248	248	0
414	SUNY C. Old Westbury	1,326	0	0	0	0	0	0
415	Franklin & Marshall C.	1,300	222	222	0	21	14	7
416	Reed C.	1,295	0	0	0	0	0	0
417	Rider U.	1,276	0	0	0	69	38	31
418	Shaw U.	1,270	NA	NA	NA	78	78	0
419	Coastal Carolina U.	1,260	31	31	0	636	27	609
420	Drake U.	1,255	277	91	186	189	189	0

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
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Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
421	U. WI Oshkosh	1,252	0	0	0	46	2	44
422	SUNY C. Plattsburgh	1,224	143	103	40	440	285	155
423	Black Hills State U.	1,184	137	104	33	158	82	76
424	U. San Francisco	1,163	154	154	0	101	40	61
425	U. WI Stout	1,144	13	13	0	0	0	0
426	U. Hartford	1,136	58	58	0	46	46	0
427	U. WI Superior	1,136	0	0	0	0	0	0
428	Pace U. all campuses	1,099	0	0	0	103	76	27
429	U. of Health Sciences	1,098	28	28	0	0	0	0
430	Nicholls State U.	1,075	0	0	0	274	211	63
431	Sul Ross State U.	1,058	0	0	0	0	0	0
432	U. WI Eau Claire	1,056	0	0	0	178	149	29
433	Elizabeth City State U.	1,044	29	0	29	91	91	0
434	Benedict C.	1,035	0	0	0	15	15	0
435	State U. West GA	1,027	200	200	0	60	60	0
436	Allegheny C.	1,007	0	0	0	0	0	0
437	Bates C.	1,006	29	29	0	211	120	91
438	Colby C.	995	0	0	0	62	62	0
439	Chapman U.	965	0	0	0	0	0	0
440	Grinnell C.	964	0	0	0	0	0	0
441	Philadelphia C. of Osteopathic Medicine	961	47	0	47	0	0	0
442	Loyola C.	935	0	0	0	0	0	0
443	CUNY John Jay C. of Criminal Justice	900	0	0	0	0	0	0
444	Juniata C.	898	26	26	0	161	10	151
445	Simmons C.	892	103	103	0	161	161	0
446	Northern KY U.	876	13	13	0	255	255	0
447	U.S. Coast Guard Academy	866	0	0	0	256	0	256
448	SUNY C. Geneseo	862	0	0	0	358	358	0
449	Albany C. of Pharmacy	855	0	0	0	0	0	0
450	Kirksville C. of Osteopathic Medicine	839	184	0	184	0	0	0
451	Southern OR U.	836	0	0	0	3	0	3
452	McNeese State U.	834	0	0	0	0	0	0
453	CO State U. Pueblo	786	0	0	0	0	0	0
454	Skidmore C.	785	0	0	0	0	0	0
455	Trinity C. (Hartford, CT)	768	29	19	10	51	51	0
456	SUNY C. Brockport	755	55	27	28	0	0	0
457	U. Houston-Clear Lake	754	0	0	0	18	0	18
458	Seattle U.	744	11	0	11	28	28	0
459	Loyola Marymount U.	736	0	0	0	0	0	0

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
460	Bethune-Cookman C.	723	0	0	0	0	0	0
461	Whitman C.	714	0	0	0	0	0	0
462	Gustavus Adolphus C.	707	0	0	0	2	2	0
463	CUNY Baruch C.	687	0	0	0	1	0	1
464	C. of the Holy Cross	683	38	38	0	58	58	0
465	Dillard U.	679	0	0	0	94	94	0
466	Des Moines U. Osteopathic Medical Ctr.	676 e	15 e	15 e	0 e	15 e	15 e	0 e
467	Kettering U.	661	18	18	0	53	53	0
468	Lawrence Technological U.	655	0	0	0	3	0	3
469	U. Portland	634	0	0	0	0	0	0
470	Hendrix C.	631	0	0	0	138	125	13
471	U. Houston-Downtown	627	0	0	0	154	154	0
472	Towson U.	614	0	0	0	21	14	7
473	Hartwick C.	609	0	0	0	0	0	0
474	U. WI Parkside	608	0	0	0	13	0	13
475	Augustana C. (Rock Island, IL)	599	0	0	0	0	0	0
476	Andrews U.	584	0	0	0	143	12	131
477	CUNY Medgar Evers C.	568	36	36	0	0	0	0
478	Lake Forest C.	561	0	0	0	0	0	0
479	Southern U. New Orleans	556	0	0	0	133	133	0
480	Appalachian State U.	555	41	28	13	21	21	0
481	Roanoke C.	554	0	0	0	118	118	0
482	Valparaiso U.	551	9	9	0	100	70	30
483	U. Detroit Mercy	548 e	0 e	0 e	0 e	15 e	15 e	0 e
484	U. of the Sciences Philadelphia	544	0	0	0	0	0	0
485	VA Military Institute	543	0	0	0	0	0	0
486	Lincoln U. (Lincoln University, PA)	526	0	0	0	181	13	168
487	Kalamazoo C.	519	0	0	0	0	0	0
488	St. Olaf C.	516	0	0	0	0	0	0
489	St. Mary's U. (San Antonio, TX)	512	164	164	0	184	0	184
490	Augsburg C.	493	0	0	0	71	71	0
491	MS Valley State U.	493	0	0	0	NA	NA	NA
492	Mt. St. Mary's C. (Los Angeles, CA)	492	0	0	0	0	0	0
493	John Carroll U.	478	0	0	0	46	46	0
494	MA C. of Pharmacy and Health Sciences	457	0	0	0	96	0	96
495	Wabash C.	454	0	0	0	17	17	0
496	Southern CT State U.	424	0	0	0	0	0	0
497	Denison U.	415	0	0	0	0	0	0

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

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			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
498	National U. of Health Sciences	401	0	0	0	31	31	0
499	Lewis and Clark C.	399	0	0	0	0	0	0
500	U. Puget Sound	398	70	70	0	248	248	0
501	SUNY C. Cortland	392	13	11	2	NA	NA	NA
502	Central CT State U.	388	0	0	0	148	0	148
503	Southeastern OK State U.	383	0	0	0	0	0	0
504	Oberlin C.	381	0	0	0	13	13	0
505	Kennesaw State U.	374	95	95	0	59	19	40
506	Evergreen State C.	354	0	0	0	97	97	0
507	Roger Williams U. Bristol	352	0	0	0	123	123	0
508	Eastern KY U.	345	0	0	0	62	62	0
509	U. WI River Falls	345	0	0	0	36	36	0
510	U. WI Whitewater	341	0	0	0	45	0	45
511	Saginaw Valley State U.	332	0	0	0	97	10	87
512	SUNY Purchase C.	330	0	0	0	12	0	12
513	St. Mary's C. MD	322	0	0	0	0	0	0
514	Pitzer C.	320	0	0	0	0	0	0
515	New C. FL	305	0	0	0	53	11	42
516	Wilkes U.	300	20	20	0	128	0	128
517	Augustana C. (Sioux Falls, SD)	288	0	0	0	104	104	0
518	Eastern OR U.	288	8	0	8	9	9	0
519	Providence C.	286	0	0	0	167	167	0
520	U. of St. Thomas (St. Paul, MN)	281	0	0	0	91	78	13
521	NJ City U.	273	0	0	0	0	0	0
522	Wiley C.	270	0	0	0	101	66	35
523	TX A&M U. Commerce	267	0	0	0	0	0	0
524	La Salle U.	260	0	0	0	0	0	0
525	Sonoma State U.	260	0	0	0	0	0	0
526	Bridgewater State C.	258	5	5	0	5	5	0
527	Clafin U.	255	0	0	0	34	34	0
528	Jarvis Christian C.	247	0	0	0	0	0	0
529	WV School of Osteopathic Medicine	245	0	0	0	133	0	133
530	U. Findlay, The	231	0	0	0	14	0	14
531	Abilene Christian U.	229	0	0	0	0	0	0
532	Willamette U.	228	0	0	0	0	0	0
533	Ft. Lewis C.	227	0	0	0	55	39	16
534	Iona C.	223	0	0	0	5	0	5
535	Northeastern IL U.	206	0	0	0	0	0	0

TABLE 43. R&D expenditures passed through to subrecipients and passed-through expenditures received as a subrecipient by universities and colleges, ranked by all R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	R&D expenditures passed through to subrecipients			R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
536	Radford U.	195	1	0	1	35	19	16
537	SUNY Fredonia	193	0	0	0	0	0	0
538	Fayetteville State U.	166	0	0	0	0	0	0
539	U. Central OK	157	0	0	0	10	10	0
540	Bluefield State C.	156	0	0	0	149	149	0
541	Cooper Union	150	0	0	0	0	0	0

e = estimated.

NA = not available.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$670 million in total R&D expenditures.

NOTES: Detail may not add to total because of rounding and because some institutions provided only total and federal subrecipient data. Institutions that are not listed in this table did not respond to item 1A, R&D expenditures passed through to subrecipients, or item 1B, R&D expenditures received as a subrecipient. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
	All institutions	26,936,554	2,374,562	1,144,369	802,832	2,676,438	1,237,080	1,148,788
1	Johns Hopkins U., The ^a	1,229,426	103,382	NA	NA	56,126	NA	NA
2	U. WA	625,218	0	0	0	0	0	0
3	Stanford U.	541,667	72,911	260	72,651	65,427	29,877	35,550
4	U. MI all campuses	521,339	44,602	25,424	19,178	58,256	23,025	35,231
5	U. CA, San Diego	465,629	NA	NA	NA	0	0	0
6	U. CA, Los Angeles	461,145	NA	NA	NA	0	0	0
7	U. PA	435,343	47,796	26,813	20,983	33,171	18,110	15,061
8	U. WI Madison	434,423	41,751	22,336	19,415	50,232	23,432	26,800
9	MA Institute of Technology	427,552	26,482	13,031	13,451	75,231	31,322	43,909
10	U. CA, San Francisco	418,944	NA	NA	NA	0	0	0
11	U. CO all campuses	414,986	51,064	26,073	24,991	58,168	33,486	24,682
12	Columbia U. in the City of NY	406,576	41,791	23,403	18,388	40,380	17,713	22,667
13	Harvard U.	399,764	53,873	19,739	34,134	45,623	13,727	31,896
14	U. Pittsburgh all campuses	394,444	28,103	14,657	13,446	34,267	17,772	16,495
15	Washington U. St. Louis	371,043	27,388	20,846	6,542	26,807	16,885	9,922
16	PA State U. all campuses	347,996	NA	NA	NA	19,393	19,393	0
17	Duke U.	347,896	38,174	38,174	0	0	0	0
18	Cornell U. all campuses	339,107	31,151	NA	NA	37,253	14,634	22,619
19	Yale U.	330,837	29,308	NA	NA	27,189	NA	NA
20	Baylor C. of Medicine	312,669	35,596	30,041	5,555	15,545	11,511	4,034
21	U. Southern CA	312,589	41,273	15,122	26,151	34,278	20,201	14,077
22	U. MN all campuses	308,369	39,280	NA	NA	28,047	NA	NA
23	U. NC Chapel Hill	304,204	37,403	17,266	20,137	24,105	14,828	9,277
24	OH State U. all campuses	284,675	28,252	11,362	16,890	41,207	18,753	22,454
25	U. AZ	283,956	45,390	34,043	11,347	58,093	39,326	18,767
26	U. IL Urbana-Champaign	275,896	36,706	28,782	7,924	37,179	16,040	21,139
27	U. CA, Berkeley	268,830	NA	NA	NA	0	0	0
28	U. AL Birmingham, The	261,664	27,896	NA	NA	35,953	18,596	17,357
29	Vanderbilt U.	261,484	19,037	12,693	6,344	26,224	13,414	12,810
30	CA Institute of Technology	244,187	28,923	NA	NA	33,169	22,152	11,017
31	Emory U.	243,248	16,047	10,450	5,597	30,862	15,154	15,708
32	GA Institute of Technology all campuses	237,483	11,016	NA	NA	38,881	NA	NA
33	U. TX Austin	235,281	13,310	5,325	7,985	41,506	19,728	21,778
34	U. Rochester	231,193	14,155	9,415	4,740	19,362	NA	NA
35	Northwestern U.	230,593	16,993	NA	NA	28,936	NA	NA
36	U. Chicago	229,102	17,691	12,103	5,588	24,388	16,933	7,455

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
37	U. CA, Davis	221,937	NA	NA	NA	0	0	0
38	U. FL	221,898	27,127	24,414	2,713	23,429	7,729	15,700
39	Boston U.	219,054	20,266	11,153	9,113	24,188	13,895	10,293
40	U. IA	209,865	14,584	NA	NA	14,734	NA	NA
41	OR Health & Science U.	206,219	15,359	6,437	8,922	15,201	7,863	7,338
42	U. TX Southwestern Medical Ctr. Dallas	200,888	16,963	11,308	5,655	12,264	9,655	2,609
43	Case Western Reserve U.	195,525	5,141	5,141	0	18,745	18,745	0
44	U. Cincinnati all campuses	194,965	12,977	5,362	7,615	12,169	4,216	7,953
45	U. IL Chicago	192,825	12,473	6,937	5,536	18,174	9,682	8,492
46	U. VA all campuses	188,121	16,565	12,392	4,173	0	0	0
47	U. HI Manoa	187,035	20,103	5,364	14,739	19,986	5,472	14,514
48	NY U.	181,441	12,203	9,779	2,424	14,985	13,914	1,071
49	U. MD College Park	180,943	18,794	0	18,794	18,240	5,245	12,995
50	TX A&M U. all campuses	173,705	18,562	6,223	12,339	24,160	13,796	10,364
51	Carnegie Mellon U.	172,858	21,607	12,576	9,031	42,108	20,246	21,862
52	Mt. Sinai School of Medicine	170,757	17,442	17,442	0	15,440	9,670	5,770
53	IN U. all campuses	166,913	15,960	8,047	7,913	15,186	8,878	6,308
54	U. UT	161,119	9,619	5,290	4,329	19,069	9,148	9,921
55	Yeshiva U.	151,520	9,630	9,630	0	4,000	4,000	0
56	U. CA, Irvine	150,995	NA	NA	NA	0	0	0
57	U. TX M. D. Anderson Cancer Ctr.	150,529	12,098	7,098	5,000	13,667	9,611	4,056
58	CO State U.	145,213	NA	NA	NA	19,925	5,220	14,705
59	Purdue U. all campuses	144,090	15,537	13,724	1,813	15,538	5,175	10,363
60	SUNY Buffalo all campuses	143,865	10,089	7,142	2,947	NA	NA	NA
61	MI State U.	143,473	11,362	8,728	2,634	17,691	8,924	8,767
62	U. Miami	141,943	9,600	3,479	6,121	7,445	4,022	3,423
63	U. MD Baltimore	141,221	0	0	0	0	0	0
64	U. KY all campuses	129,887	12,486	12,486	0	20,556	8,713	11,843
65	Rutgers, The State U. NJ all campuses	128,655	18,219	15,391	2,828	23,750	13,166	10,584
66	U. CT all campuses	127,609	9,944	6,989	2,955	18,087	6,727	11,360
67	U. South FL	126,906	22,563	NA	NA	NA	NA	NA
68	U. MA Worcester	126,162	8,081	8,081	0	12,933	4,255	8,678
69	SUNY Stony Brook all campuses	123,124	7,202	175	7,027	16,142	5,851	10,291
70	Dartmouth C.	123,109	15,514	7,239	8,275	10,986	6,413	4,573
71	U. of Medicine and Dentistry NJ	121,812	10,894	10,894	0	3,447	3,447	0
72	Wake Forest U.	120,075	14,661	10,640	4,021	10,544	7,366	3,178
73	U. NE all campuses	115,833	18,168	13,464	4,704	19,740	9,175	10,565

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
74	Wayne State U.	114,700	7,732	4,690	3,042	9,650	4,879	4,771
75	U. NM all campuses	112,299	8,721	6,495	2,226	18,021	6,988	11,033
76	LA State U. all campuses	112,169	6,712	5,184	1,528	3,833	2,887	946
77	Princeton U.	111,435	13,394	9,603	3,791	10,979	7,694	3,285
78	U. TN all campuses	109,357	10,281	7,662	2,619	0	0	0
79	U. TX Health Science Ctr. Houston	106,737	15,254	13,874	1,380	14,543	10,365	4,178
80	OR State U.	104,276	6,221	4,240	1,981	14,307	7,989	6,318
81	NC State U.	103,586	11,130	6,640	4,490	14,550	10,048	4,502
82	Medical U. SC	103,494	7,957	4,057	3,900	11,048	4,385	6,663
83	FL State U.	102,967	19,033	6,681	12,352	21,809	4,638	17,171
84	U. TX Medical Branch	102,491	8,443	5,423	3,020	5,482	4,789	693
85	U. KS all campuses	101,920	14,553	8,039	6,514	24,699	6,894	17,805
86	Medical C. WI	100,547	10,397	4,669	5,728	6,414	4,447	1,967
87	Woods Hole Oceanographic Institution	100,456	4,295	4,295	0	12,164	12,164	0
88	U. GA	96,348	15,799	NA	NA	7,439	NA	NA
89	Georgetown U.	95,852	8,328	3,414	4,914	8,430	4,876	3,554
90	VA Polytechnic Institute and State U.	95,669	13,026	6,701	6,325	17,428	7,658	9,770
91	SUNY Albany	94,712	1,650	1,044	606	6,027	1,726	4,301
92	Tufts U.	92,997	4,851	2,540	2,311	8,335	4,120	4,215
93	Tulane U.	92,331	7,983	4,783	3,200	18,572	10,835	7,737
94	Thomas Jefferson U.	92,296	7,504	6,216	1,288	10,896	6,184	4,712
95	U. CA, Santa Barbara	92,248	NA	NA	NA	0	0	0
96	IA State U.	92,235	12,290	9,244	3,046	12,357	NA	NA
97	U. MO-Columbia	90,304	7,295	4,503	2,792	10,660	5,768	4,892
98	U. TX Health Science Ctr. San Antonio	89,662	18,004	9,575	8,429	8,014	4,212	3,802
99	VA Commonwealth U.	89,066	6,367	4,043	2,324	5,644	3,460	2,184
100	Brown U.	84,126	10,658	5,713	4,945	6,644	2,898	3,746
101	Rockefeller U.	82,535	7,325	7,325	0	3,828	3,828	0
102	MS State U.	82,205	18,925	14,367	4,558	13,757	5,200	8,557
103	U. OK all campuses	81,048	8,545	5,340	3,205	20,501	7,025	13,476
104	AZ State U. main campus	79,877	6,504	4,811	1,693	17,366	6,790	10,576
105	U. VT	79,015	5,276	2,441	2,835	7,547	4,031	3,516
106	George Washington U.	78,192	21,445	12,329	9,116	7,427	4,070	3,357
107	U. DE	76,583	7,821	NA	NA	9,729	5,024	4,705
108	NM State U. all campuses	76,396	11,736	3,502	8,234	14,091	3,989	10,102
109	U. AK Fairbanks all campuses	75,269	7,945	NA	NA	51	NA	NA
110	WA State U.	74,944	8,612	5,560	3,052	9,781	6,315	3,466

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
111	U. SC all campuses	71,856	6,711	6,711	0	19,356	19,356	0
112	U. NH	67,917	13,465	NA	NA	0	0	0
113	U. MA Amherst	65,452	5,049	5,049	0	3,084	3,084	0
114	Uniformed Services U. of the Health Sciences	62,408	0	0	0	0	0	0
115	Clemson U.	61,065	6,466	NA	NA	14,365	NA	NA
116	WV U.	60,819	10,238	4,075	6,163	14,606	5,631	8,975
117	U. MS all campuses	59,787	11,429	8,497	2,932	10,468	8,472	1,996
118	MT State U. Bozeman	58,874	9,950	NA	NA	11,676	NA	NA
119	U. Dayton	56,647	15,475	2,370	13,105	8,250	1,241	7,009
120	KS State U.	56,088	9,156	6,999	2,157	12,556	5,519	7,037
121	Drexel U.	54,963	12,161	NA	NA	7,700	NA	NA
122	U. Louisville	54,476	4,632	2,779	1,853	6,487	3,892	2,595
123	U. AR for Medical Sciences	53,249	9,304	9,304	0	3,870	3,870	0
124	U. CA, Santa Cruz	53,196	NA	NA	NA	0	0	0
125	Rush U.	51,706	5,167	5,167	0	8,446	7,096	1,350
126	Rice U.	51,157	5,984	5,827	157	10,683	9,541	1,142
127	U. NV, Reno	50,787	3,305	2,582	723	12,659	9,480	3,179
128	Temple U.	50,456	3,407	2,573	834	6,750	4,139	2,611
129	Auburn U. all campuses	49,565	5,022	5,022	0	13,054	4,903	8,151
130	U. of Notre Dame	48,650	5,210	4,439	771	5,795	3,312	2,483
131	U. RI	48,590	6,129	5,686	443	2,687	2,500	187
132	U. ID	48,565	5,970	5,340	630	8,180	3,615	4,565
133	FL International U.	47,913	0	0	0	5,207	3,385	1,822
134	ND State U. all campuses	45,375	7,111	3,674	3,437	4,007	2,926	1,081
135	U. OR	43,634	2,922	2,500	422	3,819	1,546	2,273
136	OK State U. all campuses	43,345	8,530	NA	NA	12,189	NA	NA
137	Syracuse U. all campuses	43,162	6,193	3,929	2,264	4,510	3,285	1,225
138	U. CA, Riverside	40,981	NA	NA	NA	0	0	0
139	Charles R. Drew U. of Medicine and Science	40,430	1,449	1,449	0	5,736	5,736	0
140	Howard U.	40,086	5,379	5,379	0	6,554	6,554	0
141	George Mason U.	39,758	21,201	390	20,811	1,214	1,214	0
142	U. AL Huntsville, The	39,607	2,984	1,283	1,701	4,878	2,935	1,943
143	Brandeis U.	38,041	2,229	1,039	1,190	3,528	1,765	1,763
144	San Francisco State U.	37,056	2,420	2,420	0	3,173	3,173	0
145	St. Louis U. all campuses	36,989 e	3,321 e	2,244 e	1,077 e	1,919 e	1,163 e	756 e
146	Rensselaer Polytechnic Institute	36,651	2,305	1,698	607	9,818	5,278	4,540
147	U. ME	36,513	3,731	1,223	2,508	6,288	1,890	4,398

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
148	U. ND all campuses	36,349	2,383	2,236	147	5,650	1,836	3,814
149	Medical C. GA	35,841	2,262	1,258	1,004	2,459	2,242	217
150	U. MT, The	34,478	3,588	1,782	1,806	5,857	3,953	1,904
151	U. Houston	34,468	6,511	NA	NA	3,681	NA	NA
152	U. Southern MS	32,075	6,592	4,597	1,995	7,973	4,520	3,453
153	Hampton U.	31,443	18,925	18,345	580	1,897	1,701	196
154	U. AR main campus	31,088	2,372	1,915	457	4,346	1,950	2,396
155	NJ Institute of Technology	30,995	6,638	709	5,929	11,136	1,593	9,543
156	TX A&M U. System Health Science Ctr.	30,283	1,614	1,404	210	2,237	2,227	10
157	San Diego State U.	30,092	6,026	3,359	2,667	3,627	3,511	116
158	Loyola U. Chicago	29,150	1,434	1,434	0	4,572	1,505	3,067
159	Jackson State U.	28,806	6,477	4,120	2,357	2,577	1,166	1,411
160	U. PR Medical Sciences Campus	28,063	1,358	1,358	0	2,001	862	1,139
161	Loma Linda U.	26,631	11,194	0	11,194	1,930	108	1,822
162	Desert Research Institute	26,235	2,116	1,746	370	6,860	2,816	4,044
163	Meharry Medical C.	26,159	1,380	982	398	2,307	2,302	5
164	C. of William and Mary all campuses	26,049	3,753	2,419	1,334	5,924	2,307	3,617
165	GA State U.	25,845	4,572	3,139	1,433	5,527	2,983	2,544
166	U. AL, The	25,329	6,397	5,605	792	5,413	2,910	2,503
167	NY Medical C.	25,103	693	500	193	1,620	579	1,041
168	FL A&M U.	24,994	0	0	0	0	0	0
169	U. MD Biotechnology Institute	24,059	2,056	1,335	721	4,904	4,614	290
170	Morehouse School of Medicine	23,331	1,059	997	62	1,563	1,144	419
171	U. WY	23,186 e	1,514 e	0 e	1,514 e	2,702 e	0 e	2,702 e
172	TX Tech U.	23,181	1,930	1,823	107	2,908	1,518	1,390
173	SUNY Upstate Medical U.	22,650	852	0	852	2,902	2,207	695
174	Old Dominion U.	21,377	1,873	1,564	309	12,421	5,359	7,062
175	OH U. all campuses	20,831	2,106	1,315	791	3,638	998	2,640
176	Wright State U. all campuses	20,599	1,446	1,021	425	4,926	1,356	3,570
177	San Jose State U.	20,363	1,806	NA	NA	21	NA	NA
178	U. MO-Rolla	20,218	3,490	955	2,535	2,536	789	1,747
179	CUNY City C.	19,711	2,835	NA	NA	1,939	668	1,271
180	Stevens Institute of Technology	19,473	2,546	NA	NA	576	NA	NA
181	Lehigh U.	19,400	1,330	1,203	127	1,574	995	579
182	Catholic U. America, The	18,927	522	62	460	11,517	515	11,002
183	CUNY Hunter C.	18,836	855	394	461	554	68	486
184	MI Technological U.	18,735	1,073	717	356	4,958	NA	NA

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
185	U. South AL	17,832	1,359	NA	NA	1,747	1,234	513
186	Eastern VA Medical School	17,530	7,944	1,980	5,964	5,881	1,058	4,823
187	Brigham Young U. all campuses	17,129	1,983	1,624	359	4,222	2,701	1,521
188	Marshall U.	17,104	1,968	1,748	220	6,281	3,905	2,376
189	U. TX El Paso	16,900	6,456	2,045	4,411	4,639	2,208	2,431
190	U. MA Lowell	16,655	1,096	201	895	3,389	0	3,389
191	CO School of Mines	16,550	3,165	1,099	2,066	3,432	752	2,680
192	U. LA Lafayette	15,850	318	318	0	2,164	693	1,471
193	U.S. Air Force Academy	15,739	0	0	0	0	0	0
194	U. TX Dallas	15,733	1,998	1,563	435	3,906	2,660	1,246
195	U. MO-Kansas City	15,696	1,660	986	674	1,506	885	621
196	Southern IL U. Carbondale	15,557	487	263	224	3,709	1,380	2,329
197	SD State U.	15,127	3,638	3,638	0	5,127	2,439	2,688
198	IL Institute of Technology	14,903	1,848	994	854	4,543	1,413	3,130
199	FL Atlantic U.	14,662	1,728	910	818	2,235	459	1,776
200	Medical C. OH	14,591	870	556	314	1,056	817	239
201	U. Memphis, The	14,078	512	234	278	5,673	1,890	3,783
202	NM Institute of Mining and Technology	13,853	3,313	263	3,050	9,837	3,067	6,770
203	U. MD Ctr. for Environmental Science	13,824	3,426	1,370	2,056	1,144	0	1,144
204	U. NC Charlotte	13,816	3,278	621	2,657	2,406	945	1,461
205	Creighton U.	13,745	707	701	6	4,648	4,632	16
206	U. WI Milwaukee	13,670	1,359	785	574	2,421	1,238	1,183
207	NC Agricultural and Technical State U.	13,487	1,246	818	428	2,998	1,888	1,110
208	Portland State U.	13,276 e	1,373 e	1,071 e	302 e	5,404 e	2,052 e	3,352 e
209	U. North TX Health Science Ctr. Ft. Worth	13,259	35	35	0	1,207	1,207	0
210	U. Toledo	13,229	819	718	101	1,714	731	983
211	Clark Atlanta U.	13,075	1,244	906	338	3,157	2,099	1,058
212	U. SD	12,849	855	132	723	1,164	676	488
213	Northern AZ U.	12,754	1,156	371	785	922	668	254
214	Rochester Institute of Technology	12,415	2,665	2,270	395	1,200	599	601
215	AL A&M U.	12,023	1,607	1,339	268	1,224	1,102	122
216	Albany Medical C.	11,849	340	239	101	217	133	84
217	Wichita State U.	11,796	334	124	210	1,253	1,253	0
218	U. TX San Antonio	11,644	658	658	0	896	692	204
219	U. of the VI	11,598	0	0	0	2,804	0	2,804
220	TN State U.	11,277	50	50	0	49	49	0
221	U. Tulsa	11,240	1,818	1,105	713	755	277	478

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
222	U. TX Arlington	10,498	673	427	246	2,131	1,640	491
223	SUNY Binghamton	10,414	586	324	262	0	0	0
224	U. Akron all campuses	10,284	390	178	212	2,110	680	1,430
225	U. NC Wilmington	9,951	2,334	1,146	1,188	1,639	768	871
226	U. Denver	9,839	949	895	54	1,521	754	767
227	Mercer U. all campuses	9,613	998	131	867	0	0	0
228	East Carolina U.	9,399	1,023	745	278	1,146	283	863
229	U. GU	9,205	452	452	0	1,705	1,705	0
230	U. MA Dartmouth	9,199	1,753	1,321	432	2,140	1,050	1,090
231	Ponce School of Medicine	9,179	0	0	0	1,004	0	1,004
232	Kent State U. all campuses	9,093	821	194	627	1,785	721	1,064
233	Universidad Central del Caribe	8,498	0	0	0	596	95	501
234	Worcester Polytechnic Institute	8,489	853	685	168	1,798	1,133	665
235	ID State U.	8,416	205	155	50	3,729	2,154	1,575
236	SD School of Mines and Technology	8,366	491	344	147	2,085	1,074	1,011
237	CA State U. Long Beach	8,351	2,911	NA	NA	532	393	139
238	Western MI U.	8,313	1,136	751	385	1,620	1,154	466
239	CA State U. Los Angeles	8,094	354	316	38	690	436	254
240	U. PR Rio Piedras Campus	8,093	518	518	0	300	300	0
241	Prairie View A&M U.	7,965	1,016	171	845	376	284	92
242	Rosalind Franklin U. of Medicine and Science	7,843	0	0	0	0	0	0
243	Alcorn State U.	7,622	0	0	0	0	0	0
244	TX Tech U. Health Science Ctr.	7,604	155	114	41	1,215	1,158	57
245	U. PR Mayaguez Campus	7,539	50	50	0	60	60	0
246	Morgan State U.	7,227	0	0	0	830	309	521
247	Northern IL U.	6,824	1,076	539	537	584	461	123
248	Southern Methodist U.	6,752	36	36	0	1,300	868	432
249	U. AK Anchorage all campuses	6,721	0	0	0	NA	NA	NA
250	CA State U. Northridge	6,521	326	196	130	219	142	77
251	Clarkson U.	6,434	1,033	836	197	1,935	1,343	592
252	Cleveland State U.	6,380	1,154	201	953	1,035	457	578
253	Teachers C. Columbia U.	6,256	1,131	NA	NA	1,660	NA	NA
254	Norfolk State U.	6,054	29	29	0	0	0	0
255	Marquette U.	6,046	972	890	82	881	462	419
256	CUNY Queens C.	5,820	771	263	508	2,976	209	2,767
257	TX A&M U. Corpus Christi	5,685	0	0	0	247	70	177
258	VA State U.	5,655	0	0	0	0	0	0

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
259	FL Institute of Technology	5,575	0	0	0	720	116	604
260	Oakland U.	5,559	0	0	0	95	4	91
261	U. North TX	5,499	1,242	660	582	530	90	440
262	U. MA Boston	5,412	1,147	867	280	1,701	1,340	361
263	Wesleyan U.	5,388	391	51	340	306	86	220
264	U.S. Naval Academy	5,341	0	0	0	0	0	0
265	U. West FL	5,332	2,414	1,881	533	1,258	539	719
266	Bowling Green State U. all campuses	5,318	484	331	153	850	589	261
267	Xavier U. LA	5,226	204	204	0	2,117	1,868	249
268	Tarleton State U.	5,208	0	0	0	296	0	296
269	Embry-Riddle Aeronautical U.	5,179	765	265	500	1,376	43	1,333
270	Miami U. all campuses	5,132	192	192	0	1,504	277	1,227
271	CA State U. San Bernardino	5,127	427	427	0	0	0	0
272	Fisk U.	5,000	0	0	0	100	0	100
273	LA Tech U.	4,718	392	392	0	216	61	155
274	Air Force Institute of Technology	4,664	0	0	0	12	12	0
275	Polytechnic U.	4,660	279	279	0	1,025	900	125
276	U. MO-St. Louis	4,618	525	443	82	877	574	303
277	Clark U.	4,475 e	45 e	0 e	45 e	230 e	165 e	65 e
278	East TN State U.	4,412	0	0	0	0	0	0
279	Western KY U.	4,400	2,689	1,554	1,135	925	738	187
280	Rowan U.	4,355	180	180	0	2,314	1,061	1,253
281	U. HI Hilo	4,217	0	0	0	324	324	0
282	CA State U. Dominguez Hills	4,179	49	21	28	427	127	300
283	CA State Polytechnic U. Pomona	4,059	0	0	0	819	396	423
284	MT Tech of the U. MT	4,059	131	37	94	1,262	597	665
285	CA State U. Fullerton	3,979	599	599	0	236	236	0
286	TX A&M U. Kingsville	3,832	222	189	33	3,789	1,003	2,786
287	CA State U. Fresno	3,750	0	0	0	482	220	262
288	TX Southern U.	3,749	48	48	0	1,441	1,055	386
289	Wellesley C.	3,708	391	305	86	1,343	725	618
290	Southern U. and A&M C. all campuses	3,581	1,029	NA	NA	622	NA	NA
291	Langston U.	3,578	0	0	0	0	0	0
292	DePaul U.	3,539	154	0	154	492	489	3
293	TX State U. San Marcos	3,536	815	697	118	3,536	1,036	2,500
294	U. DC	3,492	0	0	0	1,548	8	1,540
295	Duquesne U.	3,479	205	205	0	577	457	120

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
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Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
296	U. AR Pine Bluff	3,455	0	0	0	1,225	815	410
297	Ball State U.	3,441	1,071	93	978	1,848	376	1,472
298	CUNY Graduate Ctr.	3,324	0	0	0	0	0	0
299	C. Charleston	3,321	565	540	25	1,123	708	415
300	KY State U.	3,298	0	0	0	157	148	9
301	U. NC Greensboro	3,267	1,326	542	784	1,911	1,388	523
302	U. PR Humacao U. C.	3,201	33	33	0	39	39	0
303	Northeastern OH Universities C. of Medicine	2,964	374	67	307	164	38	126
304	TX Christian U.	2,961	0	0	0	202	71	131
305	CUNY Herbert H. Lehman C.	2,936	0	0	0	0	0	0
306	James Madison U.	2,843	31	31	0	1,596	1,432	164
307	Central MI U.	2,707	680	0	680	239	0	239
308	IL State U.	2,650	210	161	49	826	106	720
309	CA State Polytechnic U. San Luis Obispo	2,616	350	216	134	1,670	358	1,312
310	St. Joseph's U.	2,612	438	74	364	0	0	0
311	U. AR Little Rock	2,586	0	0	0	1,440	59	1,381
312	U. TX-Pan American	2,578	188	188	0	189	91	98
313	TN Technological U.	2,564	252	242	10	0	0	0
314	CUNY Brooklyn C.	2,559	238	238	0	652	431	221
315	Ft. Valley State U.	2,558	76	76	0	282	282	0
316	CA State U. Monterey Bay	2,548	0	0	0	135	135	0
317	Albany State U.	2,547	0	0	0	NA	NA	NA
318	Maharishi U. of Management	2,541 e	0 e	0 e	0 e	0 e	0 e	0 e
319	Spelman C.	2,419	0	0	0	283	283	0
320	SC State U.	2,418	10	10	0	10	10	0
321	Eastern MI U.	2,375	104	0	104	946	534	412
322	New School, The	2,330	1,187	32	1,155	0	0	0
323	West TX A&M U.	2,205	0	0	0	0	0	0
324	Central WA U.	2,200	0	0	0	92	92	0
325	Savannah State U.	2,094	160	160	0	478	366	112
326	New England C. of Optometry	1,958	0	0	0	40	40	0
327	Western WA U.	1,950	16	16	0	0	0	0
328	Christopher Newport U.	1,904	0	0	0	0	0	0
329	Nova Southeastern U.	1,884	78	68	10	382	159	223
330	Bowie State U.	1,883	0	0	0	141	141	0
331	Southwest MO State U.	1,863	237	99	138	324	138	186
332	SUNY C. of Optometry	1,856	0	0	0	0	0	0

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
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Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
333	West Chester U. PA	1,833	0	0	0	263	263	0
334	NM Highlands U.	1,810	238	238	0	222	222	0
335	Ithaca C.	1,807	816	417	399	198	198	0
336	Mt. Holyoke C.	1,800	71	50	21	260	69	191
337	Gallaudet U.	1,747	0	0	0	706	706	0
338	GA Southern U.	1,746	0	0	0	511	440	71
339	U. Redlands	1,711	69	52	17	12	0	12
340	U. of the Pacific	1,700	142	23	119	224	166	58
341	AL State U.	1,683	200	200	0	500	500	0
342	CUNY York C.	1,669	0	0	0	0	0	0
343	Middle TN State U.	1,651	0	0	0	0	0	0
344	Western Carolina U.	1,633	0	0	0	0	0	0
345	CUNY C. Staten Island	1,624	0	0	0	237	237	0
346	Smith C.	1,602	0	0	0	234	228	6
347	Hope C.	1,576	0	0	0	0	0	0
348	Carleton C.	1,575	0	0	0	0	0	0
349	Lincoln U. (Jefferson City, MO)	1,552	0	0	0	0	0	0
350	Grambling State U.	1,522	0	0	0	0	0	0
351	Alfred U. all campuses	1,494	0	0	0	278	61	217
352	Lamar U.	1,494	681	681	0	879	460	419
353	U. North FL	1,493	156	156	0	402	326	76
354	American U.	1,456	0	0	0	268	137	131
355	Swarthmore C.	1,449	175	149	26	456	74	382
356	Indiana U. PA all campuses	1,446	NA	NA	NA	393	393	0
357	PA C. of Optometry	1,407	0	0	0	302	302	0
358	WV State C.	1,403	0	0	0	0	0	0
359	Youngstown State U.	1,385	0	0	0	0	0	0
360	U. Scranton	1,374	155	15	140	366	0	366
361	Baylor U.	1,372	4	0	4	412	224	188
362	Barnard C.	1,369 e	96 e	96 e	0 e	0 e	0 e	0 e
363	SUNY C. Oswego	1,342	NA	NA	NA	0	0	0
364	U. Northern CO	1,328	155	0	155	614	518	96
365	OR Institute of Technology	1,322	0	0	0	0	0	0
366	U. WI Green Bay	1,293	0	0	0	752	538	214
367	U. LA Monroe	1,271	0	0	0	720	720	0
368	SUNY C. Old Westbury	1,258	0	0	0	0	0	0
369	Southeastern LA U.	1,257	55	53	2	NA	NA	NA

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370	Seton Hall U.	1,233	0	0	0	0	0	0
371	U. WI La Crosse	1,221	69	25	44	272	63	209
372	Furman U.	1,197	0	0	0	684	466	218
373	Lafayette C.	1,187	175	175	0	364	364	0
374	Murray State U.	1,185	51	32	19	691	592	99
375	Hampshire C.	1,181	0	0	0	0	0	0
376	TX Woman's U.	1,175	161	23	138	326	320	6
377	Bowdoin C.	1,151	0	0	0	201	170	31
378	Morehead State U.	1,137	60	60	0	377	377	0
379	Amherst C.	1,126	49	49	0	123	123	0
380	NY Institute of Technology all campuses	1,110	143	0	143	0	0	0
381	Haverford C.	1,066	0	0	0	97	97	0
382	Bryn Mawr C.	1,065	0	0	0	157	157	0
383	Shaw U.	1,033	NA	NA	NA	0	0	0
384	Elizabeth City State U.	1,032	29	0	29	91	91	0
385	Benedict C.	1,020	0	0	0	0	0	0
386	St. Cloud State U.	972	0	0	0	0	0	0
387	Long Island U. all campuses	962	0	0	0	0	0	0
388	Macalester C.	959	0	0	0	0	0	0
389	Bucknell U.	955	0	0	0	41	26	15
390	Philadelphia C. of Osteopathic Medicine	951	0	0	0	0	0	0
391	Claremont Graduate U.	945	0	0	0	40	40	0
392	Pomona C.	940	0	0	0	43	43	0
393	Black Hills State U.	934	137	104	33	158	82	76
394	Fordham U.	929	250	250	0	363	363	0
395	Hamilton C. (Clinton, NY)	901	0	0	0	14	11	3
396	U. Richmond	900	2	2	0	131	131	0
397	SUNY C. Plattsburgh	896	114	94	20	336	216	120
398	FL Gulf Coast U.	884	0	0	0	0	0	0
399	U. WI Stevens Point	884	12	0	12	85	42	43
400	SUNY C. Buffalo	883	0	0	0	0	0	0
401	U. WI Oshkosh	879	0	0	0	46	2	44
402	U.S. Coast Guard Academy	866	0	0	0	256	0	256
403	Midwestern U. (Chicago, IL)	857	0	0	0	107	107	0
404	U. WI Stout	838	13	13	0	0	0	0
405	Southern IL U. Edwardsville	829	59	59	0	141	141	0
406	Franklin & Marshall C.	815	222	222	0	21	14	7

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407	Trinity U.	805	58	58	0	52	13	39
408	Coastal Carolina U.	785	31	31	0	636	27	609
409	Juniata C.	778	26	26	0	161	10	151
410	Colgate U.	777	4	4	0	105	105	0
411	IN State U. all campuses	747	117	117	0	172	137	35
412	Pittsburg State U.	744	0	0	0	134	134	0
413	U. WI Superior	743	0	0	0	0	0	0
414	Stephen F. Austin State U.	740	62	62	0	26	26	0
415	Rose-Hulman Institute of Technology	726	0	0	0	0	0	0
416	Bethune-Cookman C.	723	0	0	0	0	0	0
417	U. WI Eau Claire	721	0	0	0	178	149	29
418	CO State U. Pueblo	714	0	0	0	0	0	0
419	Dickinson C.	708	56	56	0	175	175	0
420	U. San Francisco	706	154	154	0	40	40	0
421	Reed C.	702	0	0	0	0	0	0
422	U. Hartford	697	58	58	0	46	46	0
423	Trinity C. (Hartford, CT)	686	29	19	10	51	51	0
424	Bates C.	679	29	29	0	211	120	91
425	Bradley U.	671	39	34	5	115	79	36
426	Union C. (Schenectady, NY)	664	0	0	0	196	6	190
427	Milwaukee School of Engineering	662	0	0	0	0	0	0
428	Drake U.	647	277	91	186	189	189	0
429	U. Northern IA	646	0	0	0	168	148	20
430	Pace U. all campuses	644	0	0	0	103	76	27
431	State U. West GA	623	100	100	0	60	60	0
432	Hendrix C.	615	0	0	0	138	125	13
433	SUNY C. Geneseo	588	0	0	0	358	358	0
434	Southern OR U.	587	0	0	0	3	0	3
435	Hartwick C.	581	0	0	0	0	0	0
436	SUNY C. Brockport	574	55	27	28	0	0	0
437	Southern U. New Orleans	556	0	0	0	133	133	0
438	CUNY Medgar Evers C.	555	0	0	0	0	0	0
439	U. WI Parkside	548	0	0	0	13	0	13
440	Whitman C.	544	0	0	0	0	0	0
441	C. of the Holy Cross	538	38	38	0	58	58	0
442	Gustavus Adolphus C.	533	0	0	0	2	2	0
443	Calvin C.	530	0	0	0	0	0	0

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
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Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
444	Lincoln U. (Lincoln University, PA)	526	0	0	0	181	13	168
445	Loyola Marymount U.	508	0	0	0	0	0	0
446	Augustana C. (Rock Island, IL)	504	0	0	0	0	0	0
447	Augsburg C.	493	0	0	0	71	71	0
448	MS Valley State U.	493	0	0	0	NA	NA	NA
449	U. IL Springfield	493	0	0	0	0	0	0
450	Mt. St. Mary's C. (Los Angeles, CA)	492	0	0	0	0	0	0
451	Allegheny C.	476	0	0	0	0	0	0
452	Northern KY U.	474	13	13	0	249	249	0
453	McNeese State U.	451	0	0	0	0	0	0
454	U. Houston-Downtown	449	0	0	0	154	154	0
455	Chapman U.	439	0	0	0	0	0	0
456	Rider U.	428	0	0	0	31	0	31
457	St. Mary's U. (San Antonio, TX)	414	164	164	0	184	0	184
458	U. of Health Sciences	407	28	28	0	0	0	0
459	Valparaiso U.	404	9	9	0	100	70	30
460	Loyola C.	392	0	0	0	0	0	0
461	Colby C.	373	0	0	0	62	62	0
462	U. Puget Sound	370	70	70	0	248	248	0
463	Roanoke C.	364	0	0	0	118	118	0
464	Skidmore C.	364	0	0	0	0	0	0
465	Evergreen State C.	354	0	0	0	97	97	0
466	Roger Williams U. Bristol	352	0	0	0	123	123	0
467	Dillard U.	351	0	0	0	0	0	0
468	St. Olaf C.	347	0	0	0	0	0	0
469	Kirksville C. of Osteopathic Medicine	333	0	0	0	0	0	0
470	Southeastern OK State U.	320	0	0	0	0	0	0
471	Southern CT State U.	312	0	0	0	0	0	0
472	Western U. of Health Sciences	312	24	0	24	248	248	0
473	Kennesaw State U.	311	95	95	0	19	19	0
474	Towson U.	302	0	0	0	14	14	0
475	Kettering U.	298	18	18	0	53	53	0
476	Oberlin C.	291	0	0	0	13	13	0
477	Augustana C. (Sioux Falls, SD)	273	0	0	0	104	104	0
478	Appalachian State U.	272	32	28	4	17	17	0
479	MA C. of Pharmacy and Health Sciences	270	0	0	0	96	0	96
480	Fairfield U.	267	0	0	0	199	15	184

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
481	U. NC Asheville	265	0	0	0	39	10	29
482	U. WI Whitewater	264	0	0	0	45	0	45
483	Sul Ross State U.	261	0	0	0	0	0	0
484	NJ City U.	260	0	0	0	0	0	0
485	Clafin U.	255	0	0	0	34	34	0
486	Kalamazoo C.	254	0	0	0	0	0	0
487	Andrews U.	249	0	0	0	0	0	0
488	SUNY C. Cortland	245	13	11	2	NA	NA	NA
489	Central CT State U.	239	0	0	0	0	0	0
490	U. Houston-Clear Lake	238	0	0	0	18	0	18
491	Albany C. of Pharmacy	235	0	0	0	0	0	0
492	Sonoma State U.	234	0	0	0	0	0	0
493	CUNY Baruch C.	232	0	0	0	0	0	0
494	Jarvis Christian C.	232	0	0	0	0	0	0
495	Lake Forest C.	228	0	0	0	0	0	0
496	Grinnell C.	225	0	0	0	0	0	0
497	Denison U.	224	0	0	0	0	0	0
498	Pitzer C.	223	0	0	0	0	0	0
499	Grand Valley State U.	221	0	0	0	122	1	121
500	Lawrence Technological U.	219	0	0	0	3	0	3
501	Providence C.	214	0	0	0	167	167	0
502	Iona C.	213	0	0	0	5	0	5
503	Simmons C.	208	103	103	0	33	33	0
504	U. of the Sciences Philadelphia	207	0	0	0	0	0	0
505	U. CA Office of the President	203	NA	NA	NA	0	0	0
506	New C. FL	199	0	0	0	42	0	42
507	John Carroll U.	197	0	0	0	46	46	0
508	U. Portland	183	0	0	0	0	0	0
509	CUNY John Jay C. of Criminal Justice	177	0	0	0	0	0	0
510	Eastern KY U.	175	0	0	0	62	62	0
511	Wiley C.	169	0	0	0	0	0	0
512	Wabash C.	166	0	0	0	0	0	0
513	Fayetteville State U.	161	0	0	0	0	0	0
514	U. Detroit Mercy	158 e	0 e	0 e	0 e	15 e	15 e	0 e
515	Bluefield State C.	156	0	0	0	149	149	0
516	U. of St. Thomas (St. Paul, MN)	154	0	0	0	91	78	13
517	St. Mary's C. MD	151	0	0	0	0	0	0

TABLE 44. Federal R&D expenditures passed through to subrecipients and federal passed-through expenditures received as a subrecipient by universities and colleges, ranked by federal R&D expenditures: FY 2004
(Dollars in thousands)

Rank	Institution	Federal R&D expenditures	Federal R&D expenditures passed through to subrecipients			Federal R&D expenditures received as a subrecipient		
			Total	Educational subrecipients	Other subrecipients	Total	Educational pass-through entities	Other pass-through entities
518	Ft. Lewis C.	150	0	0	0	55	39	16
519	Abilene Christian U.	135	0	0	0	0	0	0
520	Lewis and Clark C.	129	0	0	0	0	0	0
521	SUNY Fredonia	116	0	0	0	0	0	0
522	U. WI River Falls	106	0	0	0	36	36	0
523	Wilkes U.	105	0	0	0	0	0	0
524	SUNY Purchase C.	100	0	0	0	12	0	12
525	Nicholls State U.	98	0	0	0	0	0	0
526	Seattle U.	95	11	0	11	28	28	0
527	Willamette U.	94	0	0	0	0	0	0
528	Radford U.	90	1	0	1	16	0	16
529	Des Moines U. Osteopathic Medical Ctr.	78 e	0 e	0 e	0 e	0 e	0 e	0 e
530	U. Central OK	71	0	0	0	10	10	0
531	Eastern OR U.	64	0	0	0	0	0	0
532	La Salle U.	57	0	0	0	0	0	0
533	TX A&M U. Commerce	54	0	0	0	0	0	0
534	U. Findlay, The	40	0	0	0	8	0	8
535	Bridgewater State C.	36	5	5	0	5	5	0
536	National U. of Health Sciences	31	0	0	0	31	31	0
537	Northeastern IL U.	17	0	0	0	0	0	0
538	Saginaw Valley State U.	10	0	0	0	10	10	0
	Cooper Union	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0

e = estimated.

NA = not available.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$643 million in federally financed R&D expenditures.

NOTES: Detail may not add to total because of rounding and because some institutions provided only total and federal subrecipient data. Institutions that are not listed in this table did not respond to item 1A, R&D expenditures passed through to subrecipients, or item 1B, R&D expenditures received as a subrecipient. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 45. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	956,017	1,125,344	1,304,617	1,404,509	644,268	770,302	936,700	1,027,929
1	U. IL Urbana-Champaign	55,729	75,064	111,009	113,320	37,891	51,913	85,040	75,934
2	Carnegie Mellon U.	60,368	100,132	86,623	100,324	41,511	81,863	77,036	90,589
3	U. Southern CA	64,269	74,061	86,600	85,367	61,724	68,647	77,574	80,199
4	U. CA, San Diego	59,965	56,729	68,996	85,259	49,094	38,925	49,965	65,816
5	Johns Hopkins U., The ^a	70,155	70,528	66,160	73,123	69,178	69,580	63,943	72,265
6	GA Institute of Technology all campuses	35,925	38,892	51,608	54,756	16,857	18,933	27,721	39,462
7	MA Institute of Technology	34,618	41,283	45,413	44,543	23,241	24,501	26,804	28,050
8	PA State U. all campuses	4,250	4,303	17,294	31,575	3,016	3,378	14,130	25,968
9	U. TX Austin	23,502	27,376	28,749	29,259	20,605	24,985	25,717	25,778
10	U. MD College Park	21,229	32,233	31,902	27,990	12,515	20,222	20,462	16,293
11	Cornell U. all campuses	17,187	23,403	26,525	27,124	11,890	14,903	15,540	15,722
12	OH State U. all campuses	22,758	29,173	26,274	23,397	1,415	2,253	2,670	6,523
13	Stanford U.	15,459	15,166	16,794	18,579	12,701	12,834	14,241	16,413
14	U. HI Manoa	722	10,115	19,430	18,143	689	10,073	19,351	18,110
15	OR Health & Science U.	0	0 e	20,207	17,805	0	0 e	16,765	16,007
16	U. UT	16,007	19,660	17,262	17,098	10,922	13,866	11,949	10,704
17	Purdue U. all campuses	8,528	9,733	9,588	16,642	2,850	3,852	5,135	6,536
18	U. CA, Los Angeles	11,313	11,091	17,869	16,433	5,305	7,561	9,861	12,717
19	U. MA Amherst	11,800	14,291	16,368	16,312	7,836	8,450	9,392	10,495
20	Naval Postgraduate School	5,488 i	6,264 i	13,759	14,969 i	5,395 i	6,135 i	13,493	14,924 i
21	VA Polytechnic Institute and State U.	1,955	4,486	5,177	14,858	1,116	1,581	2,770	2,601
22	U. MN all campuses	8,022	9,412	11,619	13,584	5,993	7,308	8,855	10,269
23	U. WI Madison	9,910	11,517	13,145	13,457	6,770	7,928	9,974	10,607
24	U. TN all campuses	10,451	9,520	11,719	12,736	5,806	5,097	6,629	6,930
25	U. AK Fairbanks all campuses	16,159	9,040	12,035	12,616	105	0	4,645	10,354
26	IN U. all campuses	2,395	8,799	10,411	12,596	1,164	2,238	5,353	6,955
27	U. CA, Irvine	6,572	8,326	10,218	12,234	4,054	4,087	4,808	6,495
28	CA Institute of Technology	4,402	6,906	10,446	12,177	4,340	6,696	10,446	12,177
29	U. CA, Santa Barbara	8,273	11,311	12,267	11,893	6,461	7,880	9,256	8,887
30	MS State U.	2,146	2,526	2,620	10,168	820	1,196	1,358	4,377
31	U. MI all campuses	10,184	7,384	7,365	9,840	5,261	2,561	4,114	4,041
32	Columbia U. in the City of NY	5,907	8,604	8,985	9,443	5,341	7,802	8,684	8,879
33	Rice U.	8,995	9,075	10,614	9,202	8,688	7,882	8,801	8,126
34	SUNY Buffalo all campuses	7,489	9,720	8,474	8,933	2,220	3,344	3,908	5,104
35	U. NC Chapel Hill	7,850	9,005	9,995	8,555	4,591	7,072	7,495	5,927
36	U. Chicago	905	1,878	4,076	8,478	673	1,860	4,046	8,403
37	U. AL Huntsville, The	9,599	5,031	6,308	8,420	4,630	4,258	5,254	7,249
38	Rutgers, The State U. NJ all campuses	5,264	5,885	6,359	8,378	1,985	1,551	2,865	2,946
39	Princeton U.	6,938	6,745	7,172	8,226	3,869	4,450	4,730	4,706
40	U. IL Chicago	1,156	8,567	12,245	8,217	727	6,003	9,142	5,875
41	U. PA	8,939	10,539	11,073	8,120	7,658	9,393	9,583	6,096
42	FL State U.	2,477	4,042	4,654	8,087	2,018	2,783	2,801	4,838
43	NY U.	7,220	8,085	8,402	7,993	4,764	5,884	6,297	6,342
44	U. CO all campuses	5,577	5,440	5,743	7,289	4,860	4,730	5,158	6,475
45	U. VA all campuses	4,020	4,723	5,980	7,236	3,137	4,168	5,550	6,472
46	TX A&M U. all campuses	4,865	6,460	6,007	7,204	2,894	3,892	3,331	3,658
47	Brown U.	5,473	7,126	6,871	7,038	3,364	4,744	4,664	4,636
48	U. NE all campuses	5,078	5,169	5,984	6,119	1,209	3,182	3,187	3,801
49	SUNY Stony Brook all campuses	3,245	6,166	5,518	6,101	1,962	2,660	3,382	3,852
50	Syracuse U. all campuses	4,889	6,653	6,220	6,037	2,803	3,094	3,817	3,723

TABLE 45. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
51	IA State U.	3,750	4,649	5,691	5,721	447	1,067	1,768	2,010
52	U. AZ	6,158	7,954	5,503	5,585	4,325	5,447	3,969	4,516
53	Washington U. St. Louis	6,254	5,885	5,468	5,432	4,826	4,667	3,585	3,897
54	Yale U.	4,396	5,076	5,398	5,307	3,870	3,925	4,236	4,193
55	AZ State U. main campus	3,183	4,556	4,680	5,228	1,817	2,730	2,967	2,970
56	Wright State U. all campuses	3,750	3,564	2,928	5,096	1,211	1,302	873	2,339
57	U. LA Lafayette	2,711	5,295	6,015	5,091	859	767	611	543
58	U. MD Baltimore County	496	538	582	5,080	376	365	391	3,147
59	Duke U.	3,595	4,383	5,677	4,696	2,931	3,629	5,192	4,276
60	U. Houston	3,292	5,638	3,709	4,453	2,155	2,905	2,391	2,444
61	George Mason U.	1,201	3,350	4,384	4,418	1,048	3,278	4,243	4,161
62	NC State U.	5,234	4,512	4,542	4,412	3,369	3,228	3,488	3,234
63	MI State U.	3,745	4,542	4,237	4,292	1,684	2,408	2,396	2,307
64	Rockefeller U.	3,237	3,767	5,594	4,270	605	742	684	40
65	Stevens Institute of Technology	565 e	565 i	747 i	4,217	257 e	257 i	440 i	3,584
66	Dartmouth C.	4,383	4,900	5,572	4,195	3,474	4,043	3,903	2,727
67	U. KY all campuses	1,908	5,158	3,892	4,153	1,558	2,237	2,389	2,573
68	U. West FL	5,303	4,890	6,497	3,974	3,999	3,499	5,810	3,777
69	NJ Institute of Technology	2,800	4,252	3,967	3,924	278	645	972	1,041
70	SUNY Albany	2,217	1,482	2,859	3,896	874	1,189	2,264	2,158
71	FL International U.	2,087	2,641	1,327	3,750	1,128	1,777	1,039	2,828
72	U.S. Air Force Academy	82	469	1,630	3,740	82	302	1,327	1,962
73	U. OR	2,379	2,162	2,686	3,719	2,133	2,142	2,655	3,592
74	U. Tulsa	541	1,178	3,202	3,694	418	953	2,938	3,525
75	U. CA, Davis	2,053	2,677	3,812	3,575	989	1,246	1,936	2,264
76	U. Rochester	2,288	2,763	2,486	3,560	2,082	2,516	2,244	3,266
77	Northwestern U.	3,899	2,808	2,991	3,505	2,145	2,258	1,942	2,560
78	U. NM all campuses	2,244	2,857	2,717	3,404	1,891	2,609	2,533	3,189
79	U. NC Charlotte	954	1,051	1,626	3,316	554	683	957	3,027
80	U. FL	2,608	2,523	3,564	3,250	2,046	1,893	2,881	2,818
81	U. Pittsburgh all campuses	3,030	3,398	3,736	3,237	2,094	2,364	3,396	2,828
82	Jackson State U.	6,042	4,768	3,692	3,180	5,356	4,070	3,320	2,895
83	LA State U. all campuses	2,993	3,301	2,950	3,163	281	488	514	557
84	U. TX Dallas	853 e	2,735	3,476	3,023	226 e	1,091	1,889	1,761
85	KS State U.	1,009	1,925	1,933	3,022	739	1,691	1,682	2,693
86	U. CA, Riverside	1,322	2,297	2,108	2,982	591	1,747	1,781	2,401
87	U. GA	2,664	2,264	2,641	2,957	564	415	396	635
88	U. CT all campuses	1,784	1,264	1,845	2,939	602	801	1,104	2,057
89	George Washington U.	0	2,722	3,130	2,788	0	1,775	2,907	2,528
90	Boston U.	997	1,258	2,103	2,656	976	1,078	1,964	2,573
91	U. AL, The	545	1,585	2,383	2,653	231	997	1,444	1,024
92	NM State U. all campuses	3,662	1,822	3,135	2,645	2,889	1,370	2,779	2,628
93	James Madison U.	109	740	1,719	2,535	95	50	54	1,340
94	U. CA, Berkeley	825	506	2,315	2,448	500	485	2,029	1,724
95	OR State U.	2,547	2,518	1,970	2,309	2,009	2,015	1,261	1,851

TABLE 45. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
96	U. of Notre Dame	1,193	1,275	1,888	2,307	1,074	1,072	1,728	2,170
97	ND State U. all campuses	648	997	1,084	2,302	429	716	799	2,028
98	U. CA, Santa Cruz	2,136	2,810	3,752	2,296	1,742	2,297	2,803	1,589
99	FL Institute of Technology	1,498	2,281	2,632	2,290	333	1,458	2,243	1,829
100	Wayne State U.	703	1,181	1,489	2,283	253	701	659	1,181
	All other sampled institutions	108,517	99,975	114,521	104,288	65,935	60,714	71,232	65,363

e = estimated.

i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$70 million in total R&D expenditures in the computer sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 46. R&D expenditures in the environmental sciences at universities and colleges, ranked by all FY 2004 environmental sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All environmental sciences	Atmospheric sciences	Earth sciences	Oceanography	Environmental sciences, nec
	All institutions	1,831,387	2,019,481	2,190,230	2,354,063	415,645	829,609	776,498	332,311
1	U. CA, San Diego	119,096	114,136	116,885	122,387	7,210	32,443	82,327	407
2	Woods Hole Oceanographic Institution	71,849	77,560	86,293	96,548	6,921 i	32,200 i	25,052 i	32,375 i
3	U. CO all campuses	51,590	60,896	65,638	86,142	39,688	45,488	244	722
4	U. WA	73,448	71,330	82,846	78,845	17,705	8,455	52,685	0
5	CO State U.	15,671	38,167	42,779	71,410	26,192	45,218	0	0
6	U. AK Fairbanks all campuses	30,488	71,747	74,882	67,891	30,408	12,279	21,466	3,738
7	TX A&M U. all campuses	80,789	81,950	85,351	66,724	4,718	3,919	45,720	12,367
8	U. HI Manoa	47,185	45,908	45,283	54,891	3,936	11,294	37,305	2,356
9	Columbia U. in the City of NY	46,375	52,455	52,298	54,163	4,966	87	45,870	3,240
10	U. WI Madison	29,040	34,220	44,557	54,127	38,558	5,519	3,440	6,610
11	U. NH	40,098	38,664	41,807	45,307	9,486	16,147	19,674	0
12	U. Miami	30,957	37,275	40,808	44,320	20,960	99	20,344	2,917
13	U. IL Urbana-Champaign	33,855	36,157	37,822	41,152	3,745	35,766	0	1,641
14	PA State U. all campuses	22,550	27,679	43,134	41,057	11,741	23,028	6,288	0
15	U. MD Ctr. for Environmental Science	36,635	38,501	38,344	39,631	0	4,594	35,037	0
16	Johns Hopkins U., The ^a	36,577	35,791	35,703	38,585	6,909 i	2,366 i	11,056 i	18,254 i
17	OR State U.	36,295	34,844	37,739	37,912	1,938	1,847	20,179	13,948
18	C. of William and Mary all campuses	24,956	26,493	30,325	32,640	0	440	32,198	2
19	U. TX Austin	24,932	27,396	29,744	30,915	0	24,327	4,926	1,662
20	LA State U. all campuses	32,636	35,314	29,279	30,827	0	5,865	17,805	7,157
21	U. OK all campuses	29,571	33,499	29,929	29,639	22,312	7,327	0	0
22	MA Institute of Technology	21,390	22,007	27,656	28,648	8,228	10,467	7,448	2,505
23	U. South FL	18,752	25,479	27,198	28,375	94	3,671	24,408	202
24	Rutgers, The State U. NJ all campuses	20,511	25,279	26,402	28,359	1,456	1,620	14,430	10,853
25	U. CA, Davis	30,580	29,532	28,451	26,891	0	2,999	4,983	18,909
26	U. CA, Santa Barbara	22,963	22,840	24,343	26,527	0	4,672	20,640	1,215
27	Desert Research Institute	22,765	22,123	24,623	26,318	16,007	10,311	0	0
28	U. RI	24,245	23,869	28,756	25,824	0	824	24,845	155
29	Hampton U.	968	2,919	10,595	24,587	24,197	0	390	0
30	U. NC Chapel Hill	12,615	15,402	19,409	23,761	0	15,939	7,822	0
31	U. ME	19,969	18,952	21,337	22,830	0	10,594	12,236	0
32	SUNY Stony Brook all campuses	17,199	20,744	20,082	21,961	242	7,340	14,379	0
33	FL State U.	14,893	19,232	19,330	21,459	7,295	9,172	4,978	14
34	U. SC all campuses	16,449	20,297	19,142	20,720	0	7,782	7,542	5,396
35	U. Southern CA	14,440	15,381	19,572	18,687	0	11,306	5,257	2,124
36	U. CA, Santa Cruz	13,048	15,367	16,826	18,414	0	3,759	12,246	2,409
37	U. MD Baltimore County	10,412	15,336	16,160	17,943	0	16,596	0	1,347
38	U. NV, Las Vegas	11,713	14,920 i	16,714	17,432 i	0 i	15,016 i	0 i	2,416 i
39	Stanford U.	8,270	8,809	10,193	17,147	0	12,449	3,199	1,499
40	Princeton U.	13,293	15,508	17,335	17,067	4,004	5,110	0	7,953
41	FL International U.	6,412	3,883	1,392	16,191	0	1,235	0	14,956
42	Harvard U.	13,765	15,095	14,786	15,690	1,502	2,840	114	11,234
43	NC State U.	16,099	16,842	15,439	15,594	0	0	7,922	7,672
44	U. CA, Los Angeles	14,774	14,824	16,351	15,396	5,022	5,665	0	4,709
45	GA Institute of Technology all campuses	16,924	15,590	14,863	15,046	7,110	7,306	297	333
46	U. KS all campuses	10,900	11,261	11,291	14,438	0	14,438	0	0
47	U. Central FL	9,416	9,238	12,584	13,747	13,747	0	0	0
48	U. Southern MS	5,703	10,964	14,433	13,336	0	321	13,015	0

TABLE 46. R&D expenditures in the environmental sciences at universities and colleges, ranked by all FY 2004 environmental sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All environmental sciences	Atmospheric sciences	Earth sciences	Oceanography	Environmental sciences, nec
49	CA Institute of Technology	10,771	13,131	13,651	13,136	0	13,136	0	0
50	U. GA	14,687	13,399	13,264	12,891	0	4,400	8,491	0
51	U. MN all campuses	13,528	12,055	11,819	12,232	0	6,473	628	5,131
52	U. DE	8,252	10,293	11,829	12,226	0	860	11,366	0
53	U. AZ	10,549	10,219	11,113	11,971	3,001	8,970	0	0
54	San Jose State U.	7,968	9,517	10,832	11,858	695	545	10,515	103
55	U. CA, Riverside	3,849	12,273	12,090	11,823	0	4,751	0	7,072
56	Duke U.	8,406	9,425	12,357	11,566	0	2,325	2,241	7,000
57	Naval Postgraduate School	11,461 i	13,084 i	11,324	11,548 i	7,743 i	0 i	3,805 i	0 i
58	OH State U. all campuses	8,746	9,231	9,267	11,398	0	5,268	0	6,130
59	AZ State U. main campus	9,798	10,379	10,985	11,197	0	11,197	0	0
60	U. MD College Park	9,464	10,949	12,339	11,158	4,096	7,062	0	0
61	VA Polytechnic Institute and State U.	15,734	13,525	10,104	10,127	0	5,874	0	4,253
62	NM Institute of Mining and Technology	7,361	9,004	9,465	10,031	0	6,753	0	3,278
63	George Mason U.	7,399	6,479	8,387	9,951	0	9,951	0	0
64	TX Tech U.	11,425	10,489	11,421	9,682	0	590	0	9,092
65	U. CA, Berkeley	6,513	7,069	10,180	9,093	36	9,057	0	0
66	UT State U.	8,522	9,804	9,734	9,007	2,357	6,650	0	0
67	U. MD Biotechnology Institute	8,066	8,558	6,746	8,756	0	0	8,756	0
68	U. CT all campuses	9,127	9,780	8,644	8,412	0	407	8,005	0
69	U. MA Dartmouth	3,466	4,703	7,415	8,345	0	0	8,345	0
70	U. MI all campuses	5,378	5,524	9,729	8,166	0	8,119	47	0
71	U. WY	6,483	6,483 e	8,076	8,076 e	4,011 e	4,065 e	0 e	0 e
72	U. NV, Reno	6,464	6,909	8,477	8,072	122	5,433	0	2,517
73	U. FL	5,873	5,470	6,458	7,879	0	4,166	3,713	0
74	Stevens Institute of Technology	2,567 e	2,567 i	3,398 i	7,875	1,238	2,756	476	3,405
75	U. CA Office of the President	NA	NA	NA	7,639	0	0	0	7,639
76	SUNY Albany	7,226	5,693	5,382	7,391	7,391	0	0	0
77	WV U.	4,530	5,777	6,242	7,219	0	7,219	0	0
78	U. MO-Rolla	1,025	2,072	3,499	7,183	2,476	4,707	0	0
79	U. ND all campuses	1,591	3,323	5,206	7,147	3,103	3,395	0	649
80	MI Technological U.	1,132	1,048	6,815	6,820	0	1,037	0	5,783
81	U. AL Huntsville, The	5,772	7,003	6,879	6,796	6,796	0	0	0
82	Brown U.	5,499	5,683	6,200	6,235	0 i	5,845 i	0 i	390 i
83	U. CA, Irvine	3,982	6,857	5,135	6,045	0	0	0	6,045
84	U. UT	4,989	5,097	4,531	5,844	2,165	3,679	0	0
85	IA State U.	4,370	4,192	4,977	5,768	0	5,768	0	0
86	U. NC Wilmington	4,503	5,922	4,516	5,468	18	93	5,099	258
87	IN U. all campuses	3,927	4,085	6,031	5,458	0	5,458	0	0
88	Cornell U. all campuses	3,790	6,117	6,203	5,222	0	4,444	75	703
89	U. WI Milwaukee	3,699	4,008	4,472	5,207	0	255	4,904	48
90	U. NE all campuses	8,375	7,511	8,147	5,004	1,206	3,798	0	0
91	U. TN all campuses	6,736	5,865	5,182	4,970	0	1,890	0	3,080
92	U. Chicago	4,526	4,559	4,092	4,902	0	4,902	0	0
93	Washington U. St. Louis	4,615	4,971	4,812	4,893	0	4,893	0	0
94	U. ID	4,284	3,944	5,626	4,887	0	3,301	0	1,586
95	MS State U.	6,298	6,752	6,248	4,815	893	2,539	1,157	226
96	U. Memphis, The	3,753	4,340	4,473	4,700	0	4,700	0	0
97	Purdue U. all campuses	4,011	4,128	3,136	4,624	1,418	709	0	2,497

TABLE 46. R&D expenditures in the environmental sciences at universities and colleges, ranked by all FY 2004 environmental sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All environmental sciences	Atmospheric sciences	Earth sciences	Oceanography	Environmental sciences, nec
98	U. PR Mayaguez Campus	4,534	4,763	5,396	4,599	0	1,153	3,446	0
99	U. Toledo	615	2,228	3,215	4,502	110	4,111	0	281
100	U. Houston	1,026	1,192	1,404	4,289	0	4,289	0	0
	All other sampled institutions	181,661	190,357	216,598	222,459	20,473	122,476	27,662	51,848

e = estimated; i = imputed; NA = not available; nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$19 million in total R&D expenditures in the environmental sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 47. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by all FY 2004 environmental sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All environmental sciences	Atmospheric sciences	Earth sciences	Oceanography	Environmental sciences, nec
	All institutions	1,185,978	1,292,052	1,442,489	1,595,993	322,355	534,609	547,654	191,375
1	Woods Hole Oceanographic Institution	60,302	63,761	70,050	83,639	5,686 i	29,296 i	21,246 i	27,411 i
2	U. CA, San Diego	71,006	72,667	71,454	79,643	3,924	15,646	59,783	290
3	U. CO all campuses	47,056	56,117	61,328	79,182	36,689	41,624	227	642
4	U. WA	66,244	61,985	76,736	71,685	14,772	6,294	50,619	0
5	CO State U.	13,143	27,743	31,928	57,302	22,246	35,056	0	0
6	Columbia U. in the City of NY	44,889	49,623	49,381	52,206	4,416	19	44,532	3,239
7	U. HI Manoa	30,569	28,555	33,925	44,615	3,625	8,895	31,085	1,010
8	TX A&M U. all campuses	55,728	56,223	60,162	43,447	2,668	1,819	34,418	4,542
9	U. WI Madison	21,731	23,315	36,300	43,331	35,499	3,328	690	3,814
10	U. AK Fairbanks all campuses	27,109	43,983	44,858	40,062	20,650	6,225	13,177	10
11	U. NH	25,935	28,454	33,370	38,809	8,031	14,341	16,437	0
12	U. Miami	27,240	33,285	36,705	38,590	18,835	82	16,979	2,694
13	Johns Hopkins U., The ^a	34,923	34,678	33,989	36,250	6,909 i	2,132 i	11,056 i	16,153 i
14	OR State U.	30,081	29,777	32,385	32,270	1,910	1,252	18,240	10,868
15	Hampton U.	878	2,819	10,595	24,587	24,197	0	390	0
16	MA Institute of Technology	18,652	18,713	21,920	24,499	7,255	8,123	7,269	1,852
17	U. RI	22,999	22,849	26,524	22,958	0	490	22,316	152
18	PA State U. all campuses	10,656	15,160	23,646	22,123	5,951	12,302	3,870	0
19	U. South FL	11,178	16,759	22,221	21,631	10	2,420	19,201	0
20	Desert Research Institute	16,435	16,553	17,204	18,473	10,852	7,621	0	0
21	U. MD Baltimore County	9,072	14,247	15,871	17,575	0	16,372	0	1,203
22	U. IL Urbana-Champaign	11,765	10,021	13,144	16,595	2,946	13,015	0	634
23	C. of William and Mary all campuses	9,213	9,630	13,398	14,815	0	360	14,453	2
24	U. Southern CA	10,499	11,194	12,160	14,623	0	9,421	3,114	2,088
25	SUNY Stony Brook all campuses	10,408	12,531	12,146	14,102	13	5,239	8,850	0
26	FL State U.	10,675	11,698	11,366	13,833	5,167	5,183	3,483	0
27	U. MD Ctr. for Environmental Science	12,105	13,080	12,654	13,824	0	812	13,012	0
28	Harvard U.	12,415	14,202	12,803	13,775	1,502	2,731	114	9,428
29	U. Southern MS	5,318	10,184	13,882	13,097	0	321	12,776	0
30	Rutgers, The State U. NJ all campuses	8,734	11,484	11,993	12,875	205	1,280	9,750	1,640
31	U. NC Chapel Hill	7,640	8,753	11,974	12,793	0	10,760	2,033	0
32	U. CA, Santa Barbara	13,227	11,565	11,931	12,743	0	2,117	10,103	523
33	U. CA, Los Angeles	8,561	8,520	10,745	12,681	4,596	4,849	0	3,236
34	U. ME	8,796	9,340	11,466	12,438	0	4,746	7,692	0
35	U. TX Austin	10,355	10,406	10,483	12,434	0	9,849	1,446	1,139
36	Stanford U.	5,926	5,881	7,394	12,383	0	10,966	1,417	0
37	U. OK all campuses	13,597	12,890	12,299	12,273	10,949	1,324	0	0
38	FL International U.	3,466	2,612	1,090	12,208	0	931	0	11,277
39	U. NV, Las Vegas	9,180	13,095 i	13,476	11,613 i	0 i	11,613 i	0 i	0 i
40	U. CA, Santa Cruz	6,209	7,613	8,029	11,378	0	2,374	7,918	1,086
41	Naval Postgraduate School	11,061 i	12,575 i	10,284	11,375 i	7,665 i	0 i	3,710 i	0 i
42	CA Institute of Technology	10,319	11,207	10,916	11,340	0	11,340	0	0
43	U. SC all campuses	5,827	7,095	9,481	11,290	0	3,762	5,211	2,317
44	AZ State U. main campus	8,657	9,935	10,389	10,980	0	10,980	0	0
45	U. CA, Davis	12,924	14,139	12,502	10,397	0	1,158	1,314	7,925
46	Princeton U.	7,812	9,857	11,261	9,982	3,475	3,468	0	3,039
47	George Mason U.	7,352	6,429	8,334	9,713	0	9,713	0	0
48	U. MD College Park	7,068	8,112	8,805	9,607	2,759	6,848	0	0

TABLE 47. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by all FY 2004 environmental sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All environmental sciences	Atmospheric sciences	Earth sciences	Oceanography	Environmental sciences, nec
49	U. DE	5,955	6,769	9,064	9,200	0	683	8,517	0
50	LA State U. all campuses	10,665	12,047	7,277	8,281	0	1,476	5,888	917
51	U. AZ	6,523	6,211	7,012	7,401	1,795	5,606	0	0
52	OH State U. all campuses	5,287	4,764	5,441	7,192	0	2,822	0	4,370
53	GA Institute of Technology all campuses	7,941	7,589	8,214	7,133	3,407	3,671	0	55
54	San Jose State U.	4,283	4,996	6,610	7,123	571	528	6,024	0
55	Stevens Institute of Technology	811 e	811 i	1,393 i	7,064	1,227	2,534	273	3,030
56	U. MN all campuses	6,566	5,501	5,858	7,028	0	3,667	439	2,922
57	Duke U.	4,719	5,263	6,291	6,757	0	1,692	920	4,145
58	TX Tech U.	5,897	6,857	7,241	6,706	0	220	0	6,486
59	U. Central FL	2,803	3,543	7,374	6,209	6,209	0	0	0
60	U. CT all campuses	5,052	6,181	5,820	5,981	0	362	5,619	0
61	U. ND all campuses	1,573	2,877	4,657	5,948	2,213	3,350	0	385
62	VA Polytechnic Institute and State U.	12,693	10,984	7,234	5,445	0	2,472	0	2,973
63	NC State U.	5,239	5,083	5,921	5,417	0	0	1,494	3,923
64	U. NC Wilmington	4,255	5,752	4,350	5,280	18	72	4,932	258
65	U. NV, Reno	4,122	4,476	5,844	5,257	122	5,075	0	60
66	U. FL	2,897	2,732	3,750	5,121	0	2,313	2,808	0
67	U. AL Huntsville, The	4,650	5,166	5,113	5,117	5,117	0	0	0
68	U. CA, Berkeley	3,515	3,561	5,342	4,907	0	4,907	0	0
69	U. MI all campuses	3,232	3,057	4,768	4,886	0	4,839	47	0
70	U. Chicago	4,148	4,391	3,977	4,748	0	4,748	0	0
71	U. MD Biotechnology Institute	3,008	2,635	1,216	4,650	0	0	4,650	0
72	WV U.	2,629	4,025	4,284	4,349	0	4,349	0	0
73	U. CA, Riverside	1,153	3,401	4,595	4,238	0	2,645	0	1,593
74	U. UT	3,761	3,548	2,963	4,180	2,093	2,087	0	0
75	MI Technological U.	710	873	3,589	4,162	0	835	0	3,327
76	U. KS all campuses	2,383	2,526	2,360	4,109	0	4,109	0	0
77	SUNY Albany	3,362	2,961	3,213	4,024	4,024	0	0	0
78	U. WY	3,984	3,984 e	3,964	3,964 e	2,197 e	1,767 e	0 e	0 e
79	U. GA	5,628	4,789	4,690	3,914	0	967	2,947	0
80	IA State U.	2,640	2,332	3,252	3,857	0	3,857	0	0
81	U. CA, Irvine	2,660	2,979	3,107	3,802	0	0	0	3,802
82	Brown U.	3,756	3,601	3,901	3,730	0 i	3,688 i	0 i	42 i
83	U. MA Dartmouth	1,423	1,351	3,062	3,716	0	0	3,716	0
84	MS State U.	5,185	5,795	5,314	3,706	787	1,878	1,000	41
85	U. VA all campuses	4,382	4,081	2,426	3,473	3,473	0	0	0
86	Boston U.	2,960	2,824	3,303	3,452	0	1,018	0	2,434
87	Jackson State U.	3,123	3,006	3,336	3,420	59	3,361	0	0
88	U. NM all campuses	1,825	1,674	3,412	3,288	957	2,331	0	0
89	Cornell U. all campuses	1,722	2,797	3,211	3,184	0	2,811	32	341
90	Purdue U. all campuses	2,683	2,681	2,088	3,181	961	480	0	1,740
91	U. NE all campuses	3,880	2,863	3,245	3,086	1,194	1,892	0	0
92	U. ID	2,171	2,152	3,272	3,052	0	2,144	0	908
93	Yale U.	1,836	2,236	2,693	2,949	649	2,153	59	88
94	UT State U.	3,048	2,895	2,944	2,891	1,801	1,090	0	0
95	San Francisco State U.	513 i	1 i	468 i	2,849 i	0 i	0 i	0 i	2,849 i
96	U. MD Eastern Shore	873	0	2,500	2,766 i	0 i	0 i	0 i	2,766 i
97	SD School of Mines and Technology	1,904	1,663	2,377	2,603	2,603	0	0	0

TABLE 47. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by all FY 2004 environmental sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All environmental sciences	Atmospheric sciences	Earth sciences	Oceanography	Environmental sciences, nec
98	U. TX Dallas	1,020 e	2,991	2,860	2,589	2,589	0	0	0
99	Washington U. St. Louis	2,508	2,588	2,795	2,487	0	2,487	0	0
100	Old Dominion U.	2,416	2,703	2,369	2,472	0	0	2,472	0
	All other sampled institutions	99,071	100,172	116,172	125,605	4,887	79,126	17,886	23,706

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$19 million in federally financed R&D expenditures in the environmental sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 48. R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
	All institutions	19,214,458	21,421,027	23,745,699	25,650,300	2,694,818	7,840,436	14,040,677	1,074,369
1	U. CA, San Francisco	509,607	569,703	642,645	698,712	0	43,548	655,164	0
2	Johns Hopkins U., The ^a	436,484	496,025	550,700	619,835	0	158,490	430,141	31,204
3	U. CA, Los Angeles	493,355	573,899	613,990	562,755	0	20,010	542,745	0
4	U. WA	406,532	436,160	474,742	481,620	13,222	86,950	374,135	7,313
5	U. PA	381,006	422,686	451,063	480,121	489	170,081	296,842	12,709
6	Baylor C. of Medicine	381,461	411,924	461,763	476,075	0	237,838	238,237	0
7	U. WI Madison	370,813	410,300	445,773	473,733	43,238	155,682	272,640	2,173
8	Washington U. St. Louis	365,713	374,666	430,570	443,901	0	178,256	261,722	3,923
9	U. MI all campuses	325,083	364,265	432,951	441,349	7,715	115,929	248,080	69,625
10	Duke U.	312,897	367,043	433,834	427,955	0	71,459	355,060	1,436
11	U. Pittsburgh all campuses	298,753	344,239	354,931	396,405	0	13,773	372,068	10,564
12	U. CA, Davis	316,573	336,796	364,029	381,707	116,311	125,408	139,988	0
13	Stanford U.	275,312	304,658	333,147	373,952	0	20,985	352,967	0
14	U. MN all campuses	336,099	372,169	372,029	372,490	59,748	65,741	237,486	9,515
15	Yale U.	279,749	304,345	331,443	366,999	1,582	120,311	245,106	0
16	U. CA, San Diego	274,810	293,994	327,752	359,714	0	60,730	297,330	1,654
17	Cornell U. all campuses	284,381	314,857	348,401	356,441	79,371	78,771	198,299	0
18	Harvard U.	278,884	307,150	314,500	351,469	128	63,427	287,594	320
19	Columbia U. in the City of NY	240,793	280,697	301,110	322,159	0	123,468	196,759	1,932
20	U. NC Chapel Hill	235,300	277,423	304,618	321,080	0	143,891	144,504	32,685
21	U. TX M. D. Anderson Cancer Ctr.	200,996	246,862	283,543	317,612	0	142,326	175,286	0
22	U. MD Baltimore	239,007	266,822	297,271	317,293	0	47,594	253,834	15,865
23	U. TX Southwestern Medical Ctr. Dallas	222,376	263,958	276,692	314,403	0	135,239	178,652	512
24	U. FL	238,143	260,138	295,557	311,513	127,866	59,437	116,977	7,233
25	Emory U.	221,105	255,462	305,031	298,183	0	56,521	188,308	53,354
26	OH State U. all campuses	197,406	214,313	255,354	288,853	61,518	86,864	108,227	32,244
27	U. AL Birmingham, The	216,201	238,232	262,742	288,286	0	92,860	193,390	2,036
28	U. CO all campuses	181,571	219,454	247,305	272,329	0	52,743	205,313	14,273
29	U. AZ	203,319	222,892	248,857	255,588	68,529	76,621	106,460	3,978
30	Northwestern U.	166,035	186,653	213,394	250,795	0	85,943	156,735	8,117
31	Vanderbilt U.	150,059	162,125	214,272	250,014	0	120,991	121,888	7,135
32	U. IA	199,891	227,210	230,028	247,550	0	61,428	152,119	34,003
33	U. Cincinnati all campuses	154,214	176,777	211,405	234,726	0	72,188	152,739	9,799
34	U. Southern CA	185,096	205,018	225,942	233,541	0	12,709	210,001	10,831
35	IN U. all campuses	149,353	179,224	210,579	233,402	0	79,709	146,109	7,584
36	U. IL Chicago	171,420	186,570	210,330	229,586	0	60,988	156,678	11,920
37	LA State U. all campuses	160,836	168,782	195,419	223,668	62,632	95,079	65,053	904
38	U. GA	188,396	199,155	207,739	218,663	98,376	85,560	33,784	943
39	U. Rochester	156,659	175,565	197,436	218,269	0	52,590	156,924	8,755
40	Mt. Sinai School of Medicine	176,946	185,335	203,853	212,786	0	84,429	128,357	0
41	U. of Medicine and Dentistry NJ	162,417	178,156	190,763	209,134	0	81,562	127,572	0
42	NY U.	152,633	177,019	193,182	209,064	0	51,765	125,925	31,374
43	U. KY all campuses	154,696	156,833	187,045	206,585	52,141	64,430	84,660	5,354
44	OR Health & Science U.	131,290	152,379 e	166,291	204,065	0	83,807	104,593	15,665
45	MI State U.	163,803	179,521	203,510	203,707	81,471	90,781	28,916	2,539
46	U. NE all campuses	140,229	156,246	178,679	202,657	54,540	95,811	39,911	12,395
47	U. Chicago	147,810	176,233	191,112	198,802	0	70,322	127,312	1,168

TABLE 48. R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
48	PA State U. all campuses	148,925	163,590	175,537	198,726	77,983	40,941	79,778	24
49	SUNY Buffalo all campuses	127,859	155,888	170,680	185,181	0	61,850	116,764	6,567
50	Yeshiva U.	148,230	157,124	177,236	183,253	0	44,494	99,873	38,886
51	Wayne State U.	140,180	159,013	170,498	182,077	0	3,341	175,377	3,359
52	Case Western Reserve U.	153,369	171,688	185,237	179,087	0	66,203	112,884	0
53	U. CA, Berkeley	165,525	170,348	174,915	178,073	72,018	57,014	49,041	0
54	Rockefeller U.	136,413	155,753	177,216	177,963	0	169,753	8,210	0
55	U. CA, Irvine	117,618	135,406	155,880	171,927	0	87,335	84,592	0
56	U. South FL	116,446	134,360	139,132	169,407	0	13,578	155,611	218
57	U. MA Worcester	111,221	132,729	148,823	169,090	0	57,951	68,779	42,360
58	TX A&M U. all campuses	153,264	155,557	160,127	167,704	77,490	35,476	54,734	4
59	U. MO-Columbia	124,701	132,161	151,772	165,113	70,313	44,439	45,541	4,820
60	Boston U.	118,512	130,144	152,133	164,576	0	9,144	153,154	2,278
61	U. TX Medical Branch	100,926	127,188	150,479	164,172	0	88,794	75,378	0
62	Medical U. SC	116,687	132,030	150,551	163,179	0	50,040	64,547	48,592
63	Purdue U. all campuses	116,206	128,926	145,624	163,164	94,778	40,187	22,065	6,134
64	U. UT	130,721	144,575	148,016	160,288	0	40,106	90,345	29,837
65	U. VA all campuses	98,876	123,266	141,784	155,682	0	64,567	89,205	1,910
66	U. CT all campuses	100,474	119,232	133,867	150,176	7,917	61,017	77,955	3,287
67	U. TX Health Science Ctr. Houston	125,439	138,380	149,294	147,328	0	42,199	95,110	10,019
68	NC State U.	145,775	148,461	135,298	145,675	68,916	73,478	0	3,281
69	Rutgers, The State U. NJ all campuses	106,092	118,490	136,720	144,974	38,795	60,444	32,218	13,517
70	Medical C. WI	83,857	96,700	108,608	139,235	0	42,144	97,091	0
71	U. TX Health Science Ctr. San Antonio	115,154	129,616	133,304	137,039	0	50,930	84,176	1,933
72	U. TN all campuses	90,646	114,256	126,429	131,621	33,213	51,630	45,068	1,710
73	U. IL Urbana-Champaign	109,062	121,383	132,414	131,495	50,554	61,911	11,331	7,699
74	U. Miami	107,753	117,760	120,716	131,424	0	26,588	104,546	290
75	Wake Forest U.	96,131	108,994	128,034	130,677	0	721	129,956	0
76	MA Institute of Technology	77,062	74,762	76,045	130,170	0	106,095	18,441	5,634
77	U. KS all campuses	104,210	121,057	121,019	128,426	589	70,110	35,183	22,544
78	Dartmouth C.	74,490	86,943	103,120	120,511	0	5,042	115,469	0
79	SUNY Stony Brook all campuses	95,885	96,549	107,434	116,965	0	64,640	50,841	1,484
80	Tulane U.	76,704	85,598	97,906	115,925	0	22,348	37,157	56,420
81	VA Polytechnic Institute and State U.	94,248	101,588	109,760	115,882	64,162	19,560	7,701	24,459
82	VA Commonwealth U.	85,501	95,536	107,759	113,794	0	38,709	68,427	6,658
83	Thomas Jefferson U.	88,936	102,974	109,083	112,078	0	54,101	55,744	2,233
84	Georgetown U.	90,273	87,245	91,290	111,732	0	23,406	84,276	4,050
85	WA State U.	71,436	94,219	107,386	109,290	45,949	51,776	8,085	3,480
86	IA State U.	87,087	93,870	98,658	103,733	45,693	44,794	13,026	220
87	Tufts U.	84,659	84,507	91,883	101,374	146	88,343	12,840	45
88	OR State U.	89,498	94,684	95,370	100,349	54,495	39,711	4,046	2,097
89	U. VT	66,357	79,952	94,922	99,972	6,993	34,079	49,502	9,398
90	U. HI Manoa	58,455	58,286	63,989	99,014	15,883	4,127	51,904	27,100
91	CO State U.	89,852	69,291	96,068	96,375	25,575	28,867	41,433	500
92	MS State U.	79,165	79,575	80,613	94,584	81,980	6,152	5,207	1,245

TABLE 48. R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
93	U. Louisville	56,292	64,124	71,379	92,381	8	12,311	74,949	5,113
94	U. NM all campuses	62,419	72,901	85,772	90,392	41,759	32,218	16,415	0
95	SUNY Albany	41,335	35,182	72,593	90,232	0	90,232	0	0
96	Uniformed Services U. of the Health Sciences	23,247	28,630	30,604	89,850	0	4,208	85,642	0
97	U. OK all campuses	66,128	71,181	76,789	87,944	0	36,428	46,154	5,362
98	Rush U.	68,935	77,581	87,056	86,802	0	18,889	64,351	3,562
99	Auburn U. all campuses	58,552	65,769	73,767	79,811	47,791	17,718	10,387	3,915
100	KS State U.	60,229	68,452	71,803	78,673	50,556	27,250	867	0
101	U. AR for Medical Sciences	51,921	45,046	63,677	74,063	0	30,558	43,505	0
102	Brown U.	42,396	56,523	65,444	68,879	0 i	7,565 i	47,343 i	13,971 i
103	WV U.	43,380	48,372	59,881	61,925	15,905	12,881	31,546	1,593
104	TX A&M U. System Health Science Ctr.	40,693	49,014	53,382	61,405	0	90	61,299	16
105	U. CA, Riverside	60,284	59,043	61,621	58,891	44,010	12,672	2,209	0
106	Medical C. GA	52,191	51,705	56,398	58,808	0	36,915	20,213	1,680
107	U. MD College Park	47,443	56,410	60,183	58,758	36,246	10,527	0	11,985
108	MT State U. Bozeman	42,114	47,193	53,672	58,661	40,895	15,143	1,108	1,515
109	OK State U. all campuses	50,096	54,332	57,737	58,529	32,851	22,559	2,874	245
110	ND State U. all campuses	48,943	51,677	52,693	56,857	50,163	2,596	4,098	0
111	U. CA Office of the President	NA	NA	NA	56,382	6,621	4,027	45,734	0
112	U. AR main campus	51,556	52,830	51,878	56,053	52,275	2,126	0	1,652
113	U. ID	42,957	50,861	53,644	55,187	34,530	14,208	6,416	33
114	Temple U.	36,228	39,678	42,315	53,739	310	21,928	28,298	3,203
115	U. MS all campuses	32,534 i	40,301 i	54,512	52,366	0	9,863	40,793	1,710
116	Charles R. Drew U. of Medicine and Science	36,717	48,839	49,888	51,994	0	0	51,994	0
117	Clemson U.	50,058	50,676	47,986	49,788	30,001	17,155	2,140	492
118	U. NV, Reno	31,445	34,621	45,815	48,236	13,850	26,455	7,637	294
119	UT State U.	34,166	37,392	39,803	45,921	27,571	10,851	7,499	0
120	U. TX Austin	41,544	39,495	43,886	44,309	177	26,222	15,838	2,072
121	CA Institute of Technology	33,779	37,600	36,353	44,270	0	44,270	0	0
122	George Washington U.	36,149	42,278	41,984	42,195	0	13,727	28,468	0
123	SUNY Health Science Ctr. Brooklyn	31,626 e	34,981 i	38,424 i	40,985 i	0 i	24,830 i	16,085 i	70 i
124	St. Louis U. all campuses	31,328	34,241	39,869	39,869 e	0 e	15,806 e	18,144 e	5,919 e
125	U. MD Biotechnology Institute	24,392	25,882	33,043	39,522	4,403	20,521	0	14,598
126	U. SC all campuses	27,153	33,200	41,565	38,926	0	9,780	26,126	3,020
127	Princeton U.	26,431	29,180	33,738	38,198	0	38,198	0	0
128	Drexel U.	319	720	31,036	35,854	0	21,311	14,381	162
129	U. LA Lafayette	18,550	30,367	24,837	35,099	681	4,075	29,692	651
130	U. MA Amherst	29,894	30,158	33,195	34,791	15,321	16,148	1,062	2,260
131	Loyola U. Chicago	30,351	33,352	35,556	34,145	0	17,123	16,777	245
132	U. PR Medical Sciences Campus	23,913	29,089	31,124 i	34,092	0	0	34,092	0
133	Eastern VA Medical School	26,250	28,572	32,801	33,798	0	6,606	27,154	38
134	NY Medical C.	24,283	25,222	30,492	33,521	0	25,141	8,380	0
135	U. MT, The	23,287	26,908	28,130	33,350	9,784	11,777	11,010	779
136	Morehouse School of Medicine	19,670	23,956	27,154	33,317	0	10,158	23,159	0
137	Southern IL U. Carbondale	25,714	34,114	34,031	32,716	10,772	6,457	14,888	599

TABLE 48. R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
138	FL State U.	12,834	15,637	26,507	32,559	0	16,645	12,297	3,617
139	SUNY Upstate Medical U.	17,294	22,326	25,931	32,090	0	10,056	22,034	0
140	U. ME	23,912	19,654	23,116	31,107	12,811	15,871	12	2,413
141	Loma Linda U.	21,325 i	19,545	26,227	29,648	0	12,975	16,672	1
142	AZ State U. main campus	15,307	18,086	32,025	29,588	725	26,137	0	2,726
143	U. AK Fairbanks all campuses	16,601	22,224	25,521	29,193	12,713	16,480	0	0
144	U. WY	19,715	19,715 e	27,752	27,752 e	12,518 e	10,757 e	4,477 e	0 e
145	Meharry Medical C.	14,467 i	20,508	25,427	27,507	0	23,433	2,855	1,219
146	Brandeis U.	22,902	21,187	24,747	27,311	0	27,311	0	0
147	Howard U.	19,534	24,138	25,172	27,232	0	15,207	12,024	1
148	U. NH	15,501	24,591	24,447	26,522	12,117	12,119	0	2,286
149	NM State U. all campuses	20,202	23,139	25,484	25,766	20,196	4,790	53	727
150	San Diego State U.	22,063	24,271	26,030	25,707	0	14,062	9,736	1,909
	All other sampled institutions	810,517	938,771	1,023,852	1,108,808	194,939	521,890	296,589	95,390

e = estimated; i = imputed; NA = not available; nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$20 million in total R&D expenditures in the life sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 49. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				Life sciences, nec
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	
	All institutions	11,194,110	12,856,267	14,645,295	16,413,267	867,963	5,503,954	9,372,273	669,077
1	Johns Hopkins U., The ^a	347,565	406,785	449,328	511,573	0	131,938	350,909	28,726
2	U. WA	299,001	341,857	392,628	424,433	9,582	79,701	328,194	6,956
3	U. CA, San Francisco	265,865	306,478	348,910	396,729	0	33,166	363,563	0
4	U. PA	296,706	332,825	346,579	359,857	184	129,805	219,636	10,232
5	Washington U. St. Louis	256,345	273,418	327,042	339,307	0	147,027	190,661	1,619
6	U. Pittsburgh all campuses	234,847	270,083	299,734	338,420	0	12,177	316,980	9,263
7	U. CA, Los Angeles	223,320	266,260	299,298	330,141	0	15,256	314,885	0
8	Harvard U.	232,400	261,863	271,959	313,278	0	59,100	253,858	320
9	Baylor C. of Medicine	234,394	259,475	302,764	312,669	0	185,576	127,093	0
10	U. MI all campuses	212,732	240,123	285,432	307,794	3,542	90,778	170,700	42,774
11	Stanford U.	214,486	235,353	259,118	296,305	0	17,567	278,738	0
12	Yale U.	215,209	238,151	257,953	291,471	639	98,117	192,715	0
13	Columbia U. in the City of NY	212,271	242,713	262,954	279,442	0	108,485	169,272	1,685
14	Duke U.	171,792	207,083	244,212	278,054	0	57,723	219,195	1,136
15	U. AL Birmingham, The	182,745	203,111	226,708	242,437	0	81,821	158,762	1,854
16	U. NC Chapel Hill	172,779	190,527	218,951	238,750	0	114,461	112,888	11,401
17	U. WI Madison	158,022	183,930	212,985	237,807	16,314	89,736	131,296	461
18	U. CA, San Diego	163,951	178,800	203,564	236,203	0	42,718	193,365	120
19	Emory U.	162,073	178,546	217,874	232,355	0	49,420	136,654	46,281
20	U. CO all campuses	149,083	181,759	208,648	228,915	0	46,611	175,535	6,769
21	U. MN all campuses	187,638	220,412	210,906	221,414	17,011	39,743	160,324	4,336
22	Vanderbilt U.	117,681	138,209	179,144	211,056	0	105,530	99,315	6,211
23	Cornell U. all campuses	144,510	163,939	195,193	209,798	26,800	46,579	136,419	0
24	U. TX Southwestern Medical Ctr. Dallas	131,820	155,258	177,196	200,888	0	85,369	115,162	357
25	OR Health & Science U.	106,328	123,979 e	137,235	180,295	0	80,413	85,296	14,586
26	U. Cincinnati all campuses	112,087	133,431	167,484	176,816	0	51,104	122,229	3,483
27	U. IA	125,891	147,461	163,646	173,775	0	38,961	110,048	24,766
28	Mt. Sinai School of Medicine	109,344	125,979	152,719	170,757	0	71,475	99,282	0
29	U. CA, Davis	106,675	123,169	155,161	167,676	29,951	59,286	78,439	0
30	OH State U. all campuses	94,278	109,006	116,877	167,498	22,960	56,742	65,363	22,433
31	U. Chicago	115,766	141,164	149,307	164,749	0	60,291	103,512	946
32	U. Southern CA	120,682	134,335	153,185	161,464	0	9,686	144,882	6,896
33	Case Western Reserve U.	133,371	154,729	169,729	158,535	0	55,682	102,853	0
34	Northwestern U.	104,710	117,218	132,517	156,686	0	60,667	90,588	5,431
35	U. Rochester	104,254	125,388	136,882	152,592	0	43,641	103,961	4,990
36	Yeshiva U.	107,800	114,268	128,894	151,520	0	36,789	82,578	32,153
37	U. AZ	105,356	118,710	142,078	150,809	30,715	48,410	68,450	3,234
38	U. IL Chicago	96,837	107,963	124,559	148,208	0	44,363	95,496	8,349
39	Boston U.	100,993	113,936	135,311	146,767	0	8,701	136,144	1,922
40	NY U.	101,365	114,924	128,929	143,913	0	43,399	75,964	24,550
41	U. MD Baltimore	99,091	117,017	126,156	141,221	0	21,183	112,977	7,061
42	U. FL	81,772	101,313	118,875	133,266	27,330	38,423	62,355	5,158
43	U. TX M. D. Anderson Cancer Ctr.	88,823	110,299	108,532	132,412	0	63,268	69,144	0
44	U. VA all campuses	81,774	103,220	120,155	129,388	0	53,977	73,731	1,680
45	U. MA Worcester	79,453	93,992	109,082	126,162	0	51,693	56,406	18,063
46	IN U. all campuses	82,786	96,579	111,613	124,872	0	51,619	69,055	4,198
47	U. of Medicine and Dentistry NJ	86,054	90,235	105,495	121,812	0	59,688	62,124	0

TABLE 49. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
48	Wake Forest U.	76,951	90,127	106,876	117,586	0	697	116,889	0
49	MA Institute of Technology	59,054	58,047	60,914	114,695	0	97,747	12,111	4,837
50	U. UT	83,618	95,799	104,091	114,204	0	30,161	68,211	15,832
51	U. TX Health Science Ctr. Houston	88,545	98,676	107,481	106,737	0	36,512	67,501	2,724
52	U. CA, Irvine	67,873	78,246	92,285	106,209	0	62,823	43,386	0
53	Medical U. SC	60,543	75,803	92,893	103,494	0	40,398	42,162	20,934
54	SUNY Buffalo all campuses	67,588	81,717	93,241	102,145	0	42,504	56,133	3,508
55	U. TX Medical Branch	63,917	77,093	91,645	101,327	0	54,703	46,624	0
56	Medical C. WI	64,003	76,241	83,026	100,547	0	30,434	70,113	0
57	Wayne State U.	64,031	77,350	84,178	94,812	0	2,247	90,676	1,889
58	Thomas Jefferson U.	64,881	79,217	85,348	92,296	0	50,229	39,875	2,192
59	Georgetown U.	85,315	79,374	76,362	91,419	0	20,769	67,054	3,596
60	PA State U. all campuses	67,800	82,591	86,415	91,336	20,329	19,690	51,317	0
61	U. KY all campuses	60,341	66,199	79,976	90,603	8,265	36,976	43,533	1,829
62	U. CA, Berkeley	82,235	85,063	88,065	90,288	25,687	38,510	26,091	0
63	U. TX Health Science Ctr. San Antonio	71,153	83,761	86,683	89,662	0	35,567	53,705	390
64	U. CT all campuses	48,914	64,292	76,770	86,915	4,348	41,630	39,043	1,894
65	U. Miami	70,619	72,837	79,261	86,590	0	21,194	65,119	277
66	Dartmouth C.	47,443	60,892	69,269	86,002	0	4,125	81,877	0
67	U. South FL	35,731	52,194	60,341	82,675	0	10,281	72,311	83
68	U. NE all campuses	43,503	52,632	62,619	81,002	14,865	47,336	16,137	2,664
69	Tulane U.	41,666	53,127	65,908	79,785	0	15,666	17,246	46,873
70	SUNY Albany	35,658	30,396	63,018	79,427	0	79,427	0	0
71	Tufts U.	61,006	62,033	68,487	79,210	27	70,488	8,695	0
72	MI State U.	59,016	69,114	74,152	78,853	24,837	38,947	13,830	1,239
73	U. KS all campuses	54,887	60,391	68,329	77,525	405	45,962	20,977	10,181
74	Rockefeller U.	51,317	62,725	70,042	76,439	0	71,044	5,395	0
75	VA Commonwealth U.	48,836	56,343	69,759	76,262	0	29,300	42,359	4,603
76	LA State U. all campuses	50,635	55,052	60,649	75,608	5,310	50,485	19,693	120
77	U. GA	49,294	59,143	70,574	72,512	22,422	41,506	7,865	719
78	U. HI Manoa	36,896	38,014	50,110	71,092	13,816	2,243	32,635	22,398
79	U. TN all campuses	44,255	55,777	63,321	69,659	3,017	39,205	26,297	1,140
80	U. VT	43,959	53,274	64,619	68,844	2,875	27,554	33,679	4,736
81	U. MO-Columbia	48,950	59,480	62,607	67,833	21,347	20,542	24,849	1,095
82	SUNY Stony Brook all campuses	50,667	57,809	60,520	66,377	0	42,817	23,192	368
83	Rutgers, The State U. NJ all campuses	30,684	37,573	51,288	63,527	10,506	28,564	20,790	3,667
84	Purdue U. all campuses	41,501	48,077	54,290	62,338	26,786	20,827	11,200	3,525
85	Uniformed Services U. of the Health Sciences	10,105	10,294	9,527	62,301	0	1,358	60,943	0
86	U. NM all campuses	41,371	50,121	58,903	60,805	34,143	22,749	3,913	0
87	U. IL Urbana-Champaign	39,942	45,822	54,100	58,990	15,110	36,436	5,076	2,368
88	CO State U.	48,151	38,463	56,130	58,376	11,901	17,600	28,527	348
89	U. AR for Medical Sciences	34,219	27,491	41,681	53,249	0	25,496	27,753	0
90	U. OK all campuses	28,057	33,659	41,319	52,107	0	24,215	24,208	3,684
91	Rush U.	36,405	43,387	48,374	50,023	0	12,575	35,087	2,361
92	OR State U.	36,364	40,042	44,575	49,609	23,935	20,947	2,657	2,070

TABLE 49. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
93	TX A&M U. all campuses	40,985	42,784	45,979	49,403	21,884	10,605	16,914	0
94	Brown U.	29,599	37,427	45,491	48,819	0 i	4,699 i	33,392 i	10,728 i
95	U. Louisville	19,988	30,070	30,931	44,572	0	5,369	37,614	1,589
96	WA State U.	29,223	34,751	40,478	42,729	12,051	26,192	2,300	2,186
97	CA Institute of Technology	31,553	35,134	34,128	42,498	0	42,498	0	0
98	NC State U.	34,243	37,438	39,689	40,907	10,605	28,818	0	1,484
99	IA State U.	25,448	31,898	36,716	40,605	13,408	20,089	7,021	87
100	Charles R. Drew U. of Medicine and Science	27,415	39,259	39,407	40,430	0	0	40,430	0
101	Temple U.	25,133	27,561	30,161	36,890	121	17,056	17,235	2,478
102	U. MS all campuses	17,674 i	24,080 i	36,540	36,568	0	6,723	28,929	916
103	VA Polytechnic Institute and State U.	22,598	23,715	35,641	36,016	16,714	9,024	2,806	7,472
104	St. Louis U. all campuses	27,229	30,220	35,890	35,890 e	0 e	13,879 e	16,623 e	5,388 e
105	Medical C. GA	21,116	23,317	28,280	35,841	0	23,837	11,422	582
106	MS State U.	22,869	24,262	25,585	34,637	29,304	4,301	370	662
107	U. TX Austin	27,681	27,544	31,220	33,646	0	19,558	12,088	2,000
108	KS State U.	16,563	22,875	28,046	33,245	15,028	17,702	515	0
109	SUNY Health Science Ctr. Brooklyn	22,860 e	25,495 i	29,127 i	32,218 i	0 i	21,268 i	10,950 i	0 i
110	WV U.	15,671	22,211	29,531	31,821	6,819	7,794	17,138	70
111	U. ID	14,206	18,866	24,429	30,429	15,411	10,319	4,672	27
112	U. NV, Reno	16,950	20,390	28,402	30,404	3,570	20,509	6,311	14
113	MT State U. Bozeman	16,155	19,161	26,077	29,343	16,543	10,574	968	1,258
114	U. PR Medical Sciences Campus	19,433	23,931	25,845 i	28,063	0	0	28,063	0
115	TX A&M U. System Health Science Ctr.	18,335	22,104	25,293	27,862	0	90	27,772	0
116	Loyola U. Chicago	21,694	24,788	26,944	27,795	0	14,280	13,392	123
117	George Washington U.	23,062	25,815	27,267	27,633	0	10,114	17,519	0
118	Drexel U.	319	572	22,266	26,811	0	17,407	9,351	53
119	Loma Linda U.	16,604 i	17,011	22,675	26,631	0	12,244	14,387	0
120	Howard U.	18,240	23,343	24,371	26,544	0	14,627	11,916	1
121	Princeton U.	17,546	21,380	23,596	26,212	0	26,212	0	0
122	Meharry Medical C.	14,305 i	20,453	24,195	26,159	0	23,154	2,847	158
123	U. MD College Park	16,447	26,381	29,284	25,470	10,332	8,241	0	6,897
124	U. MT, The	14,417	17,789	20,511	25,293	6,017	8,613	10,001	662
125	NY Medical C.	18,344	19,318	23,387	25,103	0	18,989	6,114	0
126	U. SC all campuses	14,110	14,948	21,579	24,503	0	7,244	15,142	2,117
127	Morehouse School of Medicine	18,127	21,919	24,382	23,331	0	8,752	14,579	0
128	UT State U.	14,796	18,448	20,215	22,815	13,040	5,347	4,428	0
129	SUNY Upstate Medical U.	8,815	13,404	16,652	22,650	0	8,877	13,773	0
130	Auburn U. all campuses	15,444	18,519	19,315	22,419	9,951	5,193	5,172	2,103
131	Brandeis U.	17,263	15,482	18,688	22,200	0	22,200	0	0
132	FL State U.	6,016	8,031	16,254	20,576	0	9,397	8,714	2,465
133	U. OR	16,016	15,678	17,340	20,356	0	7,579	12,754	23
134	U. MA Amherst	14,740	15,946	19,438	19,824	7,367	11,152	401	904
135	U. MD Biotechnology Institute	8,045	7,968	16,706	19,409	2,594	10,945	0	5,870
136	U. CA, Riverside	12,700	13,784	17,985	19,122	11,656	5,817	1,649	0
137	OK State U. all campuses	11,395	13,150	15,858	18,964	7,805	10,707	392	60

TABLE 49. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by all FY 2004 life sciences for the first 150 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
138	Eastern VA Medical School	11,389	13,077	15,431	17,530	0	4,833	12,697	0
139	FL A&M U.	13,759	8,515	11,761	16,886	4,909	745	9,883	1,349
140	Clemson U.	15,698	14,802	14,258	16,590	7,692	8,058	840	0
141	AZ State U. main campus	8,385	10,589	10,776	15,116	469	12,468	0	2,179
142	San Diego State U.	11,931	13,317	13,977	14,763	0	8,550	5,364	849
143	Medical C. OH	11,362	12,006	14,146	14,591	0	11,522	2,505	564
144	U. RI	7,705	9,568	13,440	14,454	6,668	1,891	4,488	1,407
145	U. ND all campuses	4,954	8,407	10,019	13,904	0	1,623	9,614	2,667
146	U. AR main campus	10,704	13,170	13,151	13,678	11,543	1,543	0	592
147	Creighton U.	7,020	6,325	9,128	13,454	0	5,739	7,715	0
148	U. South AL	6,924 e	13,567	13,288	13,334	0	339	12,995	0
149	U. AK Fairbanks all campuses	14,575	14,959	13,711	13,328	4,568	8,760	0	0
150	U. North TX Health Science Ctr. Ft. Worth	6,562	7,770	9,927	13,259	0	11,943	1,316	0
	All other sampled institutions	471,146	560,544	626,966	698,140	126,935	349,594	165,062	56,549

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$19 million in federally financed R&D expenditures in the life sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 50. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	2,325,084	2,452,650	2,552,331	2,694,818	617,193	689,520	762,311	867,963
1	U. FL	102,240	106,650	111,340	127,866	16,767	21,597	25,070	27,330
2	U. CA, Davis	105,152	111,445	116,189	116,311	22,873	25,683	32,100	29,951
3	U. GA	89,594	88,620	96,695	98,376	14,501	17,165	20,585	22,422
4	Purdue U. all campuses	43,419	49,270	88,408	94,778	8,567	9,592	21,635	26,786
5	MS State U.	72,172	70,570	71,392	81,980	21,628	21,962	23,383	29,304
6	MI State U.	68,798	77,002	80,279	81,471	14,722	19,135	22,514	24,837
7	Cornell U. all campuses	64,188	69,355	75,694	79,371	17,221	18,729	23,869	26,800
8	PA State U. all campuses	70,405	73,977	74,234	77,983	14,680	17,139	19,173	20,329
9	TX A&M U. all campuses	69,231	72,545	73,474	77,490	17,270	18,329	19,991	21,884
10	U. CA, Berkeley	68,053	70,036	70,932	72,018	18,182	19,801	22,213	25,687
11	U. MO-Columbia	52,127	57,129	63,609	70,313	15,542	20,495	18,155	21,347
12	NC State U.	73,787	75,524	63,130	68,916	9,968	11,242	10,426	10,605
13	U. AZ	49,212	53,026	60,461	68,529	15,380	17,081	24,760	30,715
14	VA Polytechnic Institute and State U.	68,669	69,338	64,010	64,162	14,207	13,849	17,865	16,714
15	LA State U. all campuses	55,497	56,460	59,956	62,632	5,617	4,831	4,866	5,310
16	OH State U. all campuses	40,794	37,255	51,748	61,518	8,134	8,138	6,306	22,960
17	U. MN all campuses	68,399	65,828	62,884	59,748	14,696	18,134	15,946	17,011
18	U. NE all campuses	46,128	47,057	48,085	54,540	10,472	10,498	12,127	14,865
19	OR State U.	56,223	57,748	54,765	54,495	21,261	21,746	22,385	23,935
20	U. AR main campus	48,697	50,233	49,193	52,275	9,170	11,268	11,125	11,543
21	U. KY all campuses	56,652	39,354	50,440	52,141	9,160	5,330	6,988	8,265
22	KS State U.	43,352	46,169	48,261	50,556	8,562	10,132	13,227	15,028
23	U. IL Urbana-Champaign	50,984	53,955	55,359	50,554	11,668	12,482	14,495	15,110
24	ND State U. all campuses	45,518	46,754	46,863	50,163	4,514	5,264	5,971	7,520
25	Auburn U. all campuses	38,916	45,086	47,982	47,791	8,791	9,560	10,041	9,951
26	WA State U.	26,130	41,107	46,982	45,949	8,707	10,111	11,061	12,051
27	IA State U.	48,689	49,398	43,841	45,693	11,822	13,053	11,072	13,408
28	U. CA, Riverside	23,315	44,635	44,922	44,010	3,470	6,727	9,975	11,656
29	U. WI Madison	40,912	41,943	44,664	43,238	12,757	14,792	16,681	16,314
30	U. NM all campuses	0	0	0	41,759	0	0	0	34,143
31	MT State U. Bozeman	31,020	34,363	36,945	40,895	9,538	10,726	14,133	16,543
32	Rutgers, The State U. NJ all campuses	37,103	37,843	37,725	38,795	8,741	8,258	9,290	10,506
33	U. MD College Park	29,836	37,239	38,607	36,246	6,657	13,956	14,187	10,332
34	U. ID	33,879	38,056	37,817	34,530	10,733	13,106	14,411	15,411
35	U. TN all campuses	24,050	32,406	31,704	33,213	2,248	2,287	2,374	3,017
36	OK State U. all campuses	27,169	29,857	33,863	32,851	4,412	5,962	7,669	7,805
37	Clemson U.	37,620	34,662	29,597	30,001	11,174	8,607	6,193	7,692
38	UT State U.	21,080	23,550	24,405	27,571	9,168	11,354	11,830	13,040
39	CO State U.	63,426	37,964	19,875	25,575	35,204	20,544	7,969	11,901
40	NM State U. all campuses	17,650	19,339	20,985	20,196	6,423	7,190	8,301	9,410
41	WV U.	8,860	9,460	10,950	15,905	2,329	4,408	4,409	6,819
42	U. HI Manoa	13,441	13,194	10,176	15,883	5,354	5,598	8,462	13,816
43	U. DE	17,231	14,590	15,357	15,645	4,272	3,210	4,165	5,806
44	SD State U.	11,635	10,634	15,550	15,422	3,945	3,347	4,440	4,915
45	U. MA Amherst	11,275	11,073	10,762	15,321	3,988	5,025	5,508	7,367
46	U. NV, Reno	11,564	12,214	14,325	13,850	1,728	2,206	3,516	3,570
47	U. WA	19,562	19,525	19,075	13,222	11,453	13,028	12,619	9,582
48	U. ME	10,066	10,667	10,771	12,811	2,987	3,128	3,635	4,179
49	AL A&M U.	4,624 i	9,945	24,223 i	12,723	3,369 i	7,364	20,864 i	8,214
50	U. AK Fairbanks all campuses	7,814	9,226	11,647	12,713	7,283	6,632	5,525	4,568

TABLE 50. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
51	U. WY	11,745	11,745 e	12,518	12,518 e	4,713	4,713 e	4,177	4,177 e
52	U. NH	5,689	11,997	11,482	12,117	1,440	2,898	3,894	2,503
53	TX Tech U.	11,705	11,965	11,460	10,953	1,749	2,175	1,885	2,267
54	CA State U. Fresno	3,135	6,807	8,110	10,867	229	176	418	1,187
55	Southern IL U. Carbondale	8,786	11,040	11,650	10,772	1,737	1,747	1,883	2,917
56	U. MT, The	7,776	8,505	9,291	9,784	4,180	5,069	5,844	6,017
57	U. CT all campuses	7,881	8,539	7,961	7,917	2,909	3,471	3,729	4,348
58	NC Agricultural and Technical State U.	4,544	5,175	6,855	7,882	2,167	3,112	3,496	3,660
59	U. RI	5,260	6,061	7,612	7,864	5,115	5,431	6,833	6,668
60	U. MI all campuses	4,313	6,011	7,192	7,715	1,531	2,241	2,876	3,542
61	U. VT	5,641	6,284	7,069	6,993	2,313	2,683	2,878	2,875
62	FL A&M U.	5,605	4,527	4,913	6,648	5,605	4,189	4,493	4,909
63	U. CA Office of the President	NA	NA	NA	6,621	NA	NA	NA	148
64	TX A&M U. Kingsville	4,358	4,994	5,565	6,211	235	386	604	773
65	TN State U.	3,822	5,370	5,122	6,118	2,427	2,821	3,129	3,556
66	San Francisco State U.	724 i	2 i	937 i	5,702 i	611 i	2 i	937 i	5,702 i
67	Alcorn State U.	4,735	3,480	5,333	5,566	4,735	3,480	5,333	5,566
68	VA State U.	3,125	6,244	6,305	5,504	2,305	5,995	6,060	5,206
69	Northern AZ U.	4,160	6,711	6,190	5,448	2,442	4,042	3,675	4,032
70	Prairie View A&M U.	6,561	5,213	5,097	5,326	2,837	3,206	3,218	3,441
71	U. AR Pine Bluff	4,229	4,942	5,276	5,142	1,941	2,352	2,641	2,767
72	U. MD Biotechnology Institute	6,110	6,483	1,951	4,403	1,901	1,996	253	2,594
73	SUNY C. of Environmental Science and Forestry	4,228 e	3,988 i	4,044 i	4,311 i	588 e	625 i	698 i	772 i
74	Tarleton State U.	2,530	3,500	4,210	3,974	2,485	3,461	3,912	3,819
75	Humboldt State U.	2,767 i	3,148 i	3,349 i	3,827 i	1,769 i	2,017 i	2,139 i	2,600 i
76	U. GU	2,199	2,521	2,544	3,817	2,199	2,521	2,544	3,817
77	Langston U.	2,863	3,975	4,332	3,578	2,863	3,975	4,332	3,578
78	CA State Polytechnic U. San Luis Obispo	2,292	3,371	2,936	3,198	92	266	227	196
79	KY State U.	3,355	6,068	6,251	3,148	3,014	5,916	6,251	3,148
80	U. CA, Santa Cruz	2,141	2,333	2,575	2,726	296	345	420	463
81	Tuskegee U.	2,176	2,292	2,296	2,649	2,030	2,192	2,142	2,512
82	Stephen F. Austin State U.	3,092	3,475	3,170	2,601	668	495	590	433
83	Ft. Valley State U.	2,520 e	2,931 i	2,892	2,596	2,373 e	2,931 i	2,798	2,558
84	Lincoln U. (Jefferson City, MO)	2,236	3,291	2,407	2,076	2,236	2,513	2,015	1,452
85	DE State U.	1,383	1,811 e	1,888	1,983 i	1,116	1,478 e	1,650	1,829 i
86	Yale U.	1,609	2,125	2,306	1,582	756	1,122	1,130	639
87	West TX A&M U.	1,299	1,578	1,512	1,434	12	105	204	309
88	U. NC Wilmington	852	1,273	1,343	1,429	367	945	899	1,020
89	U. MD Eastern Shore	2,292	2,469	1,408	1,356 i	2,292	2,286	1,147	1,269 i
90	U. DC	1,094	1,117	930	1,277	440	523	451	710
91	U. MA Dartmouth	659	956	617	1,064	654	922	617	914
92	U. HI Hilo	NA	3,046	308	1,063	NA	2,100	214	913
93	U. WI Stevens Point	861	1,073	1,126	1,042	130	459	494	538
94	WV State C.	55 e	454 i	851 i	986	0 e	402 i	810 i	956
95	Western IL U.	938	861	601	848	931	855	18	219

TABLE 50. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
96	CA State U. Bakersfield	572 i	650 i	694 i	772 i	66 i	77 i	83 i	102 i
97	Vassar C.	551 i	625 i	685 i	727 i	109 i	124 i	117 i	143 i
98	AZ State U. main campus	1,327	1,183	1,080	725	736	626	558	469
99	U. LA Lafayette	445	608	532	681	41	32	18	4
100	CA State U. Chico	693	590	506	615 i	192	177	61	74 i
	All other sampled institutions	31,993	35,967	26,898	10,668	14,301	18,044	14,011	5,378

e = estimated.

i = imputed.

NA = not available.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 51. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2002	2004
	All institutions	5,945,428	6,580,230	7,379,172	7,840,436	3,871,508	4,410,142	5,016,278	5,503,954
1	Baylor C. of Medicine	206,458	217,202	237,343	237,838	153,250	165,271	187,069	185,576
2	Washington U. St. Louis	172,778	161,833	191,076	178,256	130,763	130,449	160,931	147,027
3	U. PA	139,556	155,680	162,352	170,081	112,144	125,800	127,515	129,805
4	Rockefeller U.	131,770	150,571	172,060	169,753	46,674	57,543	64,886	71,044
5	Johns Hopkins U., The ^a	111,540	120,338	138,572	158,490	89,607	98,084	110,410	131,938
6	U. WI Madison	127,460	135,056	144,462	155,682	65,058	71,057	80,833	89,736
7	U. NC Chapel Hill	96,387	109,958	129,799	143,891	73,616	81,988	102,748	114,461
8	U. TX M. D. Anderson Cancer Ctr.	84,749	98,147	133,393	142,326	40,098	47,848	51,823	63,268
9	U. TX Southwestern Medical Ctr. Dallas	92,071	118,025	122,035	135,239	57,120	68,565	75,230	85,369
10	U. CA, Davis	119,269	118,477	119,074	125,408	40,033	45,283	53,858	59,286
11	Columbia U. in the City of NY	84,359	101,784	114,788	123,468	77,148	92,131	103,598	108,485
12	Vanderbilt U.	68,259	82,878	107,375	120,991	57,147	73,480	93,586	105,530
13	Yale U.	90,292	101,912	110,697	120,311	74,531	83,427	89,477	98,117
14	U. MI all campuses	90,204	101,593	122,533	115,929	65,246	72,384	87,784	90,778
15	MA Institute of Technology	58,635	55,993	54,824	106,095	46,892	45,324	46,722	97,747
16	U. NE all campuses	65,796	74,500	86,528	95,811	25,338	30,656	36,237	47,336
17	LA State U. all campuses	62,038	70,378	77,352	95,079	33,067	35,869	38,353	50,485
18	U. AL Birmingham, The	65,554	71,488	80,500	92,860	55,766	61,924	71,622	81,821
19	MI State U.	71,116	78,263	92,712	90,781	32,128	37,175	37,814	38,947
20	SUNY Albany	41,335	35,182	72,593	90,232	35,658	30,396	63,018	79,427
21	U. TX Medical Branch	49,447	67,922	83,338	88,794	30,234	41,297	43,833	54,703
22	Tufts U.	73,730	74,421	79,921	88,343	54,948	56,575	61,868	70,488
23	U. CA, Irvine	66,508	72,281	83,099	87,335	47,114	49,434	56,667	62,823
24	U. WA	102,824	112,566	124,234	86,950	78,281	93,957	106,610	79,701
25	OH State U. all campuses	58,416	61,101	72,744	86,864	31,400	32,995	40,152	56,742
26	Northwestern U.	62,340	60,132	67,271	85,943	43,707	44,069	48,355	60,667
27	U. GA	73,668	84,603	82,550	85,560	31,617	38,075	43,582	41,506
28	Mt. Sinai School of Medicine	66,120	64,867	83,296	84,429	38,307	44,061	65,072	71,475
29	OR Health & Science U.	41,636	48,304 ^e	53,547	83,807	38,459	44,880 ^e	48,848	80,413
30	U. of Medicine and Dentistry NJ	59,076	69,481	82,028	81,562	40,327	45,117	54,987	59,688
31	IN U. all campuses	44,528	55,554	67,475	79,709	28,240	36,421	42,285	51,619
32	Cornell U. all campuses	64,047	70,347	78,523	78,771	34,128	41,772	46,244	46,579
33	U. AZ	66,847	69,688	75,743	76,621	39,746	41,453	45,836	48,410
34	NC State U.	69,462	68,619	69,603	73,478	23,181	24,018	28,316	28,818
35	U. Cincinnati all campuses	50,764	58,584	62,101	72,188	39,300	45,530	48,856	51,104
36	Duke U.	73,228	66,854	65,864	71,459	60,533	51,181	54,303	57,723
37	U. Chicago	49,696	57,812	62,497	70,322	41,020	46,532	50,068	60,291
38	U. KS all campuses	49,805	57,182	58,956	70,110	27,021	29,601	36,047	45,962
39	Case Western Reserve U.	49,514	51,428	50,210	66,203	39,596	43,858	45,276	55,682
40	U. MN all campuses	54,865	62,555	64,602	65,741	33,857	35,943	37,159	39,743
41	SUNY Stony Brook all campuses	54,662	51,118	61,946	64,640	30,050	34,044	37,906	42,817
42	U. VA all campuses	41,679	56,922	64,283	64,567	34,493	47,503	54,837	53,977
43	U. KY all campuses	2,767	48,463	58,746	64,430	1,581	30,439	34,550	36,976
44	Harvard U.	92,150	81,845	71,591	63,427	77,780	70,557	63,047	59,100
45	U. IL Urbana-Champaign	48,419	55,283	61,955	61,911	25,722	29,774	34,172	36,436
46	SUNY Buffalo all campuses	36,465	47,987	59,106	61,850	23,661	31,330	40,354	42,504
47	U. IA	50,154	53,114	55,773	61,428	31,580	34,900	37,218	38,961
48	U. CT all campuses	39,168	45,972	49,817	61,017	23,167	31,630	43,114	41,630
49	U. IL Chicago	49,407	47,644	53,627	60,988	30,786	30,954	35,240	44,363
50	U. CA, San Diego	37,957	50,860	54,071	60,730	26,145	32,803	36,384	42,718

TABLE 51. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2002	2004
51	Rutgers, The State U. NJ all campuses	41,922	42,791	54,928	60,444	14,047	15,630	22,461	28,564
52	U. FL	47,641	53,109	58,708	59,437	28,341	32,642	35,884	38,423
53	U. MA Worcester	35,724	44,810	50,967	57,951	32,419	40,556	46,064	51,693
54	U. CA, Berkeley	59,752	59,935	58,860	57,014	44,244	44,598	41,794	38,510
55	Emory U.	51,160	55,999	54,005	56,521	42,981	46,403	44,192	49,420
56	Thomas Jefferson U.	45,390	54,459	62,315	54,101	36,280	46,331	47,756	50,229
57	U. CO all campuses	55,001	57,550	53,291	52,743	46,408	50,116	47,582	46,611
58	U. Rochester	41,874	46,447	52,101	52,590	34,525	38,736	42,140	43,641
59	WA State U.	38,620	43,565	49,105	51,776	17,767	20,493	24,851	26,192
60	NY U.	46,407	49,904	58,561	51,765	35,504	38,575	44,784	43,399
61	U. TN all campuses	31,864	40,798	47,941	51,630	24,553	31,797	36,927	39,205
62	U. TX Health Science Ctr. San Antonio	40,249	51,262	58,654	50,930	28,678	36,377	38,140	35,567
63	Medical U. SC	30,502	38,101	43,591	50,040	19,961	28,954	35,301	40,398
64	U. MD Baltimore	35,851	40,023	44,591	47,594	14,864	17,552	18,923	21,183
65	IA State U.	33,480	35,378	43,449	44,794	11,301	13,680	19,122	20,089
66	Yeshiva U.	35,931	38,087	42,962	44,494	26,131	27,699	31,244	36,789
67	U. MO-Columbia	33,827	33,340	39,274	44,439	15,316	18,723	18,668	20,542
68	CA Institute of Technology	33,779	37,600	36,353	44,270	31,553	35,134	34,128	42,498
69	U. CA, San Francisco	22,878	64,000	61,621	43,548	16,074	42,676	40,639	33,166
70	U. TX Health Science Ctr. Houston	38,043	41,473	42,126	42,199	28,243	30,794	37,350	36,512
71	Medical C. WI	34,617	39,154	42,748	42,144	26,420	30,870	32,679	30,434
72	PA State U. all campuses	27,305	29,379	35,939	40,941	14,688	17,173	18,421	19,690
73	Purdue U. all campuses	52,406	56,102	34,044	40,187	24,159	27,640	20,309	20,827
74	U. UT	36,329	38,450	38,259	40,106	26,220	27,592	29,074	30,161
75	OR State U.	28,355	31,947	35,398	39,711	11,940	15,184	18,600	20,947
76	VA Commonwealth U.	28,591	32,772	36,781	38,709	20,107	22,644	26,882	29,300
77	Princeton U.	26,431	29,180	33,738	38,198	17,546	21,380	23,596	26,212
78	Medical C. GA	30,271	29,913	32,954	36,915	13,137	13,461	17,510	23,837
79	U. OK all campuses	28,644	30,906	34,457	36,428	15,794	17,608	20,781	24,215
80	TX A&M U. all campuses	32,798	32,584	33,920	35,476	8,426	9,554	9,784	10,605
81	U. VT	23,789	28,718	33,233	34,079	17,865	22,132	27,064	27,554
82	U. NM all campuses	31,014	36,040	39,717	32,218	23,076	28,512	30,931	22,749
83	U. AR for Medical Sciences	17,946	10,397	9,500	30,558	13,690	7,584	7,292	25,496
84	CO State U.	18,474	21,084	64,179	28,867	7,262	10,719	40,585	17,600
85	Brandeis U.	22,902	21,187	24,747	27,311	17,263	15,482	18,688	22,200
86	KS State U.	16,575	21,876	22,496	27,250	7,925	12,635	14,365	17,702
87	U. Miami	21,616	24,726	25,408	26,588	16,816	18,534	18,907	21,194
88	U. NV, Reno	15,016	16,219	22,202	26,455	11,329	13,420	18,119	20,509
89	U. TX Austin	29,195	22,675	25,367	26,222	20,227	15,482	17,956	19,558
90	AZ State U. main campus	11,776	14,443	28,398	26,137	6,178	8,052	8,307	12,468
91	NY Medical C.	13,990	17,380	22,760	25,141	11,666	13,933	18,910	18,989
92	SUNY Health Science Ctr. Brooklyn	18,509 e	20,681 i	23,003 i	24,830 i	15,089 e	16,829 i	19,227 i	21,268 i
93	Meharry Medical C.	7,288 i	18,406	23,331	23,433	7,288 i	18,356	23,331	23,154
94	Georgetown U.	8,562	7,460	9,917	23,406	7,830	7,115	8,603	20,769
95	OK State U. all campuses	18,430	19,601	20,307	22,559	5,739	5,896	7,318	10,707

TABLE 51. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2002	2004
96	Tulane U.	11,885	16,194	18,771	22,348	6,812	10,167	12,419	15,666
97	Temple U.	16,645	18,025	19,936	21,928	12,492	13,270	15,715	17,056
98	Drexel U.	319	720	15,940	21,311	319	572	12,410	17,407
99	Stanford U.	14,984	17,853	19,059	20,985	11,388	13,389	14,949	17,567
100	U. MD Biotechnology Institute	18,007	19,107	27,942	20,521	6,107	5,882	16,395	10,945
	All other sampled institutions	823,889	895,653	982,733	1,043,496	500,255	576,252	634,501	704,735

e = estimated.

i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$17 million in total R&D expenditures in the biological sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 52. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	10,190,874	11,501,237	12,787,242	14,040,677	6,259,561	7,227,829	8,251,009	9,372,273
1	U. CA, San Francisco	486,729	505,703	581,024	655,164	249,791	263,802	308,271	363,563
2	U. CA, Los Angeles	462,136	537,772	583,167	542,745	208,134	247,311	285,481	314,885
3	Johns Hopkins U., The ^a	298,656	347,468	383,945	430,141	235,267	282,113	313,602	350,909
4	U. WA	279,027	284,686	311,786	374,135	206,149	218,691	256,534	328,194
5	U. Pittsburgh all campuses	279,251	321,572	332,214	372,068	219,767	251,920	280,529	316,980
6	Duke U.	239,127	299,704	366,539	355,060	110,770	155,482	188,586	219,195
7	Stanford U.	260,328	286,805	314,088	352,967	203,098	221,964	244,169	278,738
8	U. CA, San Diego	235,301	241,406	271,570	297,330	137,598	145,766	166,887	193,365
9	U. PA	230,791	253,871	276,153	296,842	176,736	196,534	206,835	219,636
10	Harvard U.	186,454	224,969	242,559	287,594	154,340	190,970	208,562	253,858
11	U. WI Madison	198,242	228,724	254,282	272,640	78,722	96,547	114,916	131,296
12	Washington U. St. Louis	185,732	205,172	230,511	261,722	121,071	138,263	160,898	190,661
13	U. MD Baltimore	191,206	213,458	237,817	253,834	79,273	93,614	100,925	112,977
14	U. MI all campuses	186,148	205,213	244,181	248,080	117,552	132,419	158,448	170,700
15	Yale U.	187,848	200,308	218,440	245,106	139,922	153,602	167,346	192,715
16	Baylor C. of Medicine	175,003	194,722	224,420	238,237	81,144	94,204	115,695	127,093
17	U. MN all campuses	200,593	231,995	235,350	237,486	130,966	159,548	153,523	160,324
18	U. Southern CA	169,220	184,196	200,561	210,001	109,489	121,590	137,508	144,882
19	U. CO all campuses	122,409	151,887	177,847	205,313	100,540	126,065	152,926	175,535
20	Cornell U. all campuses	156,146	175,155	194,184	198,299	93,161	103,438	125,080	136,419
21	Columbia U. in the City of NY	154,959	177,161	184,523	196,759	134,102	148,940	157,648	169,272
22	U. AL Birmingham, The	149,791	164,272	179,415	193,390	126,192	138,804	152,411	158,762
23	Emory U.	129,895	150,660	190,824	188,308	87,296	95,171	126,740	136,654
24	U. TX Southwestern Medical Ctr. Dallas	129,698	145,189	154,194	178,652	74,149	86,083	101,573	115,162
25	Wayne State U.	134,074	152,591	163,851	175,377	60,743	73,575	79,939	90,676
26	U. TX M. D. Anderson Cancer Ctr.	116,247	148,715	150,150	175,286	48,725	62,451	56,709	69,144
27	U. Rochester	108,323	121,966	137,060	156,924	65,913	82,217	90,075	103,961
28	Northwestern U.	96,134	117,787	138,904	156,735	55,630	67,934	79,523	90,588
29	U. IL Chicago	111,543	128,276	145,433	156,678	59,277	70,015	81,795	95,496
30	U. South FL	112,226	128,491	134,865	155,611	33,877	49,329	57,085	72,311
31	Boston U.	108,662	119,867	141,491	153,154	92,068	104,378	125,473	136,144
32	U. Cincinnati all campuses	98,809	112,288	140,722	152,739	72,679	86,758	115,730	122,229
33	U. IA	131,647	150,216	147,960	152,119	79,779	95,369	105,789	110,048
34	IN U. all campuses	99,307	116,922	136,549	146,109	51,688	56,887	65,513	69,055
35	U. NC Chapel Hill	116,484	140,192	145,126	144,504	90,714	99,906	105,951	112,888
36	U. CA, Davis	92,150	106,874	128,766	139,988	43,769	52,203	69,203	78,439
37	Wake Forest U.	95,714	108,418	127,528	129,956	76,655	89,581	106,396	116,889
38	Mt. Sinai School of Medicine	110,826	120,468	120,557	128,357	71,037	81,918	87,647	99,282
39	U. of Medicine and Dentistry NJ	103,341	108,675	108,735	127,572	45,727	45,118	50,508	62,124
40	U. Chicago	97,357	117,468	126,964	127,312	74,222	93,985	98,117	103,512
41	NY U.	74,482	88,315	92,855	125,925	40,319	48,019	55,995	75,964
42	Vanderbilt U.	73,053	74,042	100,778	121,888	52,764	60,056	80,036	99,315
43	U. FL	84,627	94,775	118,105	116,977	34,013	43,470	53,390	62,355
44	SUNY Buffalo all campuses	83,824	100,858	103,221	116,764	39,463	46,316	48,074	56,133
45	Dartmouth C.	70,666	83,062	98,515	115,469	44,644	57,803	65,959	81,877
46	Case Western Reserve U.	103,459	119,958	134,782	112,884	93,650	110,871	124,208	102,853
47	OH State U. all campuses	81,376	96,930	107,610	108,227	43,684	54,837	55,686	65,363
48	U. AZ	85,213	97,842	109,167	106,460	48,748	58,334	68,726	68,450
49	OR Health & Science U.	78,024	90,513 e	98,228	104,593	57,842	67,445 e	75,901	85,296
50	U. Miami	86,099	92,920	95,137	104,546	53,767	54,257	60,238	65,119

TABLE 52. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
51	Yeshiva U.	80,845	85,696	96,665	99,873	58,794	62,322	70,299	82,578
52	Medical C. WI	49,240	57,546	65,860	97,091	37,583	45,371	50,347	70,113
53	U. TX Health Science Ctr. Houston	80,144	87,051	96,241	95,110	58,522	65,234	67,031	67,501
54	U. UT	58,897	69,203	77,267	90,345	43,445	52,553	58,838	68,211
55	U. VA all campuses	56,158	65,520	76,804	89,205	46,338	55,053	64,645	73,731
56	Uniformed Services U. of the Health Sciences	15,694	18,111	19,207	85,642	6,821	6,511	5,979	60,943
57	U. KY all campuses	91,612	63,885	73,423	84,660	49,211	27,765	36,580	43,533
58	U. CA, Irvine	51,110	63,125	72,781	84,592	20,759	28,812	35,618	43,386
59	Georgetown U.	81,472	78,926	81,373	84,276	77,266	71,520	67,759	67,054
60	U. TX Health Science Ctr. San Antonio	74,905	78,354	74,650	84,176	42,475	47,384	48,543	53,705
61	PA State U. all campuses	48,279	59,892	65,308	79,778	36,705	48,076	48,779	51,317
62	U. CT all campuses	50,147	61,609	71,794	77,955	20,916	27,925	27,374	39,043
63	U. TX Medical Branch	51,430	59,266	67,141	75,378	33,652	35,796	47,812	46,624
64	U. Louisville	30,579	49,716	55,551	74,949	11,684	23,962	24,871	37,614
65	U. MA Worcester	44,349	51,616	56,548	68,779	35,318	41,948	45,965	56,406
66	VA Commonwealth U.	54,798	58,493	64,709	68,427	27,521	31,164	38,509	42,359
67	LA State U. all campuses	42,844	41,448	57,571	65,053	11,592	14,194	17,374	19,693
68	Medical U. SC	58,654	68,454	64,132	64,547	28,456	34,285	43,076	42,162
69	Rush U.	53,634	60,344	66,628	64,351	28,121	32,570	35,014	35,087
70	TX A&M U. System Health Science Ctr.	40,392	49,014	53,354	61,299	18,034	22,104	25,265	27,772
71	Thomas Jefferson U.	42,211	46,854	45,069	55,744	27,497	31,491	35,933	39,875
72	TX A&M U. all campuses	51,233	50,428	52,693	54,734	15,289	14,901	16,204	16,914
73	Charles R. Drew U. of Medicine and Science	36,717	48,839	49,888	51,994	27,415	39,259	39,407	40,430
74	U. HI Manoa	21,053	21,625	29,145	51,904	16,406	17,277	21,725	32,635
75	SUNY Stony Brook all campuses	40,313	44,139	44,147	50,841	20,258	23,156	22,106	23,192
76	U. VT	31,810	38,070	44,443	49,502	21,253	25,532	31,360	33,679
77	U. CA, Berkeley	37,720	40,377	45,123	49,041	19,809	20,664	24,058	26,091
78	Brown U.	29,146	38,880 i	44,993 i	47,343 i	20,246	25,600 i	31,116 i	33,392 i
79	U. OK all campuses	35,612	38,007	39,234	46,154	11,505	14,260	18,074	24,208
80	U. CA Office of the President	NA	NA	NA	45,734	NA	NA	NA	0
81	U. MO-Columbia	33,376	37,324	42,069	45,541	14,967	17,415	22,747	24,849
82	U. TN all campuses	33,114	39,112	44,761	45,068	16,400	20,799	23,058	26,297
83	U. AR for Medical Sciences	33,975	34,649	54,177	43,505	20,529	19,907	34,389	27,753
84	CO State U.	7,952	9,760	11,398	41,433	5,685	6,942	7,444	28,527
85	U. MS all campuses	24,083 i	30,304 i	36,447	40,793	12,367 i	17,673 i	26,589	28,929
86	U. NE all campuses	25,913	30,817	34,590	39,911	6,958	10,636	12,299	16,137
87	Tulane U.	30,315	31,918	31,949	37,157	10,909	11,838	13,405	17,246
88	U. KS all campuses	42,092	41,149	39,208	35,183	21,351	22,193	22,250	20,977
89	U. PR Medical Sciences Campus	23,913	29,089	31,124 i	34,092	19,433	23,931	25,845 i	28,063
90	U. GA	25,078	25,611	27,069	33,784	3,176	3,707	5,312	7,865
91	Rutgers, The State U. NJ all campuses	20,121	23,926	27,669	32,218	7,676	11,767	16,130	20,790
92	WV U.	25,171	25,483	31,201	31,546	9,220	11,348	15,685	17,138
93	U. LA Lafayette	14,174	25,627	20,251	29,692	6,155	7,061	8,524	8,963
94	MI State U.	20,705	21,232	27,061	28,916	10,839	11,333	12,420	13,830
95	George Washington U.	35,326	26,602	29,602	28,468	22,340	14,423	18,092	17,519

TABLE 52. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
96	Temple U.	17,843	19,840	19,676	28,298	11,345	12,725	12,198	17,235
97	Eastern VA Medical School	16,654	21,296	26,719	27,154	7,570	8,139	10,778	12,697
98	U. SC all campuses	19,033	25,263	31,788	26,126	9,692	10,826	15,543	15,142
99	Morehouse School of Medicine	8,409	14,636	16,272	23,159	8,017	12,895	15,774	14,579
100	Purdue U. all campuses	14,705	17,327	17,695	22,065	5,809	7,262	9,131	11,200
	All other sampled institutions	429,567	505,287	592,121	664,064	249,606	302,447	374,976	440,003

e = estimated.

i = imputed.

NA = not available.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$3 million in total R&D expenditures in the medical sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 53. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	359,826	388,155	428,494	449,968	242,113	268,451	294,994	319,321
1	Johns Hopkins U., The ^a	23,901	25,826	26,304	28,727	23,763	25,558	25,310	28,345
2	George Washington U.	14,654	14,712	17,960	25,499	13,644	13,942	17,073	24,328
3	U. TX M. D. Anderson Cancer Ctr.	7,341	10,347	14,720	14,950	2,058	3,882	4,256	4,799
4	NC State U.	11,795	10,816	12,545	14,649	4,586	4,153	5,567	6,874
5	U. TX Austin	16,304	16,782	15,386	14,454	11,148	12,420	11,688	10,608
6	Boston C.	14,514	13,639	12,409	12,409 e	9,695	9,629	8,840	8,840 e
7	Rutgers, The State U. NJ all campuses	6,733	8,211	9,520	9,787	2,960	3,504	5,221	5,335
8	TX A&M U. all campuses	5,334	7,229	9,393	9,180	3,784	6,122	8,101	7,696
9	IA State U.	6,276	7,620	7,194	8,754	2,597	3,733	2,791	3,725
10	PA State U. all campuses	5,881	6,802	6,580	8,348	2,424	4,031	4,327	5,466
11	NY U.	6,780	6,275	7,392	7,208	6,562	5,779	6,742	6,603
12	OH State U. all campuses	1,981	4,196	8,518	6,827	1,498	1,509	3,113	4,543
13	U. CA, Berkeley	6,070	7,474	6,417	6,731	4,707	5,881	4,952	5,676
14	Brown U.	6,807	6,636	6,395	6,520	4,405	4,379	4,107	3,666
15	GA Institute of Technology all campuses	7,885	7,563	7,653	6,250	3,700	3,682	3,629	2,234
16	U. GA	5,243	5,681	5,881	6,033	736	1,117	1,368	1,312
17	U. CA, Los Angeles	5,988	4,229	4,991	5,818	4,331	3,147	3,807	4,148
18	Stanford U.	4,737	5,126	5,807	5,614	4,444	4,853	5,317	5,088
19	U. MN all campuses	4,682	5,921	5,909	5,502	3,974	4,133	4,257	4,160
20	SUNY Stony Brook all campuses	4,732	7,061	6,402	5,467	2,877	4,269	3,523	3,297
21	U. MD College Park	1,507	2,370	3,084	5,330	821	1,087	1,521	2,417
22	U. AZ	2,905	2,814	3,905	5,060	2,252	2,304	3,090	3,821
23	MA Institute of Technology	5,046	5,185	5,348	5,036	4,255	3,979	4,108	3,772
24	U. WI Madison	4,461	4,157	4,580	4,803	2,234	2,251	2,810	3,043
25	U. Chicago	2,010	2,729	3,361	4,726	1,814	2,621	3,045	4,382
26	U. IL Chicago	4,204	5,721	5,885	4,603	3,057	4,352	4,267	3,240
27	U. KY all campuses	619	745	1,928	4,496	396	515	1,425	3,657
28	Purdue U. all campuses	3,797	4,636	4,009	4,467	2,015	2,543	2,938	3,244
29	U. WA	4,603	4,445	3,934	4,198	3,922	3,988	3,424	3,868
30	U. Southern CA	2,337	2,662	3,221	4,157	1,971	2,397	2,400	3,065
31	Princeton U.	3,663	4,151	4,286	4,072	2,110	2,772	2,886	2,556
32	U. MI all campuses	4,117	4,169	4,062	4,053	3,532	3,235	3,085	2,950
33	George Mason U.	532	2,748	3,622	4,038	428	2,696	3,383	3,862
34	U. IL Urbana-Champaign	2,730	3,565	4,226	3,951	1,576	2,227	2,674	2,584
35	U. FL	5,636	6,229	6,874	3,915	3,068	4,002	4,193	2,919
36	IN U. all campuses	2,133	2,334	3,350	3,771	1,084	1,377	1,959	2,275
37	Naval Postgraduate School	4,252 i	4,854 i	3,380	3,739 i	4,160 i	4,731 i	3,380	3,738 i
38	Cornell U. all campuses	2,625	2,612	3,146	3,713	2,077	1,835	2,442	2,589
39	Rice U.	2,300	3,183	3,558	3,619	2,148	2,990	3,486	3,514
40	MI State U.	1,697	2,532	3,099	3,492	1,190	1,684	2,210	2,753
41	U. CA, San Diego	1,249	1,894	2,672	3,355	914	1,206	1,673	2,463
42	Carnegie Mellon U.	3,224	3,064	2,977	3,195	2,868	2,292	2,692	2,966
43	CO State U.	1,169	1,858	1,930	3,012	805	1,289	1,268	2,059
44	Rockefeller U.	1,432	1,644	2,999	2,977	846	946	570	1,506
45	U. PA	1,060	1,895	2,329	2,948	1,014	1,865	2,216	2,642
46	U. Memphis, The	785	1,254	2,153	2,897	703	1,161	1,161	1,095
47	TX A&M U. Corpus Christi	104	1,123	1,976	2,870	104	1,017	1,841	1,716
48	U. CO all campuses	1,979	1,651	2,334	2,862	1,764	1,479	1,955	2,307
49	U. NE all campuses	2,753	2,075	2,735	2,781	397	596	1,000	895
50	U. CA, Davis	1,878	2,116	2,158	2,648	1,033	1,521	1,727	2,139

TABLE 53. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
51	U. IA	1,058	1,031	1,454	2,612	807	727	1,147	2,045
52	NJ Institute of Technology	1,499	1,717	1,693	2,506	811	808	948	1,130
53	Western MI U.	3,712	4,159	3,673	2,396	2,165	2,815	2,481	1,827
54	FL State U.	4,249	1,842	2,302	2,388	999	694	1,223	1,256
55	U. MA Amherst	2,900	3,124	3,086	2,362	2,112	2,007	1,916	1,584
56	VA Polytechnic Institute and State U.	2,626	2,256	2,357	2,332	1,640	1,521	1,456	1,409
57	U. SC all campuses	3,105	2,309	2,238	2,301	1,424	1,259	1,109	1,311
58	U. CA, Irvine	1,249	1,467	2,103	2,265	839	1,044	1,571	1,713
59	Harvard U.	1,769	1,571	2,102	2,223	1,654	1,554	2,084	2,223
60	Morgan State U.	588	588	1,903	2,140	588	588	1,903	2,140
61	Tulane U.	893	1,742	1,511	2,003	747	1,494	1,341	1,647
62	SUNY Buffalo all campuses	777	613	1,569	1,932	474	408	480	902
63	Boston U.	1,979	1,740	1,685	1,909	1,965	1,675	1,505	1,723
64	Rensselaer Polytechnic Institute	1,261	1,274	1,633	1,901	1,231	1,118	1,456	1,690
65	Duke U.	1,672	2,040	1,856	1,841	1,564	1,880	1,530	1,606
66	AZ State U. main campus	1,976	2,011	2,218	1,827	1,285	1,576	1,576	1,467
67	U. Pittsburgh all campuses	1,146	1,212	1,418	1,753	951	1,095	1,345	1,612
68	U. UT	1,006	1,218	1,352	1,731	917	1,022	1,167	1,254
69	U. NC Chapel Hill	1,087	1,034	1,496	1,726	910	826	1,187	1,405
70	U. New Haven	1,492	1,492 e	1,604 i	1,720 i	1,492	1,492 e	1,386 i	1,688 i
71	Clemson U.	1,809	2,263	2,135	1,698	182	397	543	500
72	LA State U. all campuses	1,615	1,341	1,876	1,684	531	400	450	398
73	U. VT	1,287	1,155	1,414	1,515	837	613	779	1,006
74	U. NM all campuses	837	827	908	1,487	784	746	849	1,389
75	Northwestern U.	840	891	996	1,460	670	746	853	1,237
76	MS State U.	947	848	1,038	1,457	119	74	182	294
77	CA State U. Dominguez Hills	1,528	1,566	50	1,437	540	409	0	962
78	OR State U.	324	767	1,500	1,412	188	610	1,265	1,280
79	U. of Notre Dame	659	568	1,274	1,270	629	568	1,180	1,172
80	Jackson State U.	413	461	1,604	1,234	366	393	1,321	1,123
81	U. MO-Columbia	1,335	1,004	1,325	1,233	632	665	942	834
82	U. CA, Santa Barbara	2,448	1,437	1,513	1,232	1,067	817	689	545
83	San Diego State U.	2,554	2,586	1,638	1,167	1,414	1,362	741	501
84	Columbia U. in the City of NY	762	901	1,439	1,133	721	901	1,439	1,133
85	San Jose State U.	752	788	1,078	1,122	58	65	127	133
86	Ithaca C.	1,375	1,632	1,373	1,121	1,375	1,632	1,373	1,121
87	Wake Forest U.	145	224	270	1,105	145	224	270	1,021
88	MT State U. Bozeman	175	185	427	1,070	175	185	407	911
89	U. Houston	760	510	2,367	1,064	585	375	1,935	780
90	Yale U.	1,297	1,259	1,185	1,049	1,221	1,177	1,082	969
91	U. TN all campuses	401	468	645	977	285	366	464	394
92	Vanderbilt U.	497	404	679	962	492	386	574	892
93	U. WI Milwaukee	699	985	933	937	402	368	386	502
94	Norfolk State U.	0	277	8	933	0	277	8	933
95	KS State U.	696	671	766	926	207	165	267	437

TABLE 53. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
96	CA Institute of Technology	360	366	1,902	921	347	366	1,850	921
97	U. LA Lafayette	983	948	927	892	104	193	102	130
98	Portland State U.	1,742	1,276	867	867 e	1,201	935	698	698 e
99	U. MT, The	314	261	1,018	851	262	213	624	764
100	U.S. Naval Academy	457	309	357	846	457	309	356	828
	All other sampled institutions	51,326	53,976	55,232	49,527	33,091	34,230	35,609	33,101

e = estimated.

i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$28 million in total R&D expenditures in the mathematical sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 54. R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				Physical sciences, nec
					All physical sciences	Astronomy	Chemistry	Physics	
	All institutions	2,804,084	3,018,150	3,277,029	3,545,031	420,254	1,316,897	1,522,134	285,746
1	Johns Hopkins U., The ^a	111,414	115,899	136,074	148,780	74,260	11,890	55,548	7,082
2	CA Institute of Technology	107,479	107,140	125,015	139,631	6,198	22,968	110,465	0
3	U. AZ	72,131	77,860	110,656	124,566	108,671	11,312	4,583	0
4	MA Institute of Technology	92,608	99,254	96,678	104,868	14,778	20,926	58,656	10,508
5	U. CA, Berkeley	79,469	78,918	83,187	97,862	8,856	25,984	61,480	1,542
6	Stanford U.	54,140	63,387	78,811	89,041	0	18,863	11,263	58,915
7	Cornell U. all campuses	61,239	66,273	78,827	86,225	17,601	20,600	39,675	8,349
8	U. TX Austin	58,845	73,665	73,352	75,345	10,447	24,154	38,484	2,260
9	PA State U. all campuses	55,196	56,959	57,498	59,831	10,230	22,330	27,247	24
10	U. CA, Los Angeles	68,170	68,211	72,411	59,270	0	20,453	37,827	990
11	U. CO all campuses	71,362	58,379	62,588	57,472	17,457	14,960	21,147	3,908
12	U. MD College Park	47,085	81,315	57,257	54,976	9,284	9,432	35,540	720
13	MI State U.	45,432	47,401	50,353	52,277	0	13,234	39,043	0
14	U. WI Madison	49,127	50,449	47,928	51,853	5,932	17,115	21,969	6,837
15	IN U. all campuses	34,958	34,095	34,322	51,497	779	15,642	34,893	183
16	FL State U.	42,586	49,388	48,889	50,839	0	13,841	36,949	49
17	U. IL Urbana-Champaign	47,013	48,218	47,967	50,152	3,937	21,217	24,998	0
18	U. CA, San Diego	33,185	38,999	42,904	45,849	4,751	19,638	19,265	2,195
19	U. Chicago	33,192	33,410	36,444	45,684	18,989	10,083	11,308	5,304
20	Harvard U.	35,170	35,156	36,178	41,824	2,896	22,135	14,567	2,226
21	U. MI all campuses	25,654	27,653	37,817	38,783	1,781	14,901	16,865	5,236
22	U. CA, Santa Cruz	31,117	31,335	33,325	37,630	21,527	7,646	8,454	3
23	TX A&M U. all campuses	25,848	29,238	32,808	36,942	0	19,475	14,793	2,674
24	Columbia U. in the City of NY	34,612	32,054	35,025	36,884	5,038	7,284	5,647	18,915
25	U. WA	29,784	28,015	33,589	34,917	2,838	19,354	12,725	0
26	U. FL	23,257	28,654	30,292	33,960	2,654	13,011	18,142	153
27	Rutgers, The State U. NJ all campuses	26,867	31,423	30,951	32,900	0	16,416	16,484	0
28	U. MA Amherst	20,876	26,779	28,858	32,108	8,822	18,074	5,108	104
29	Princeton U.	29,244	28,122	28,542	31,297	4,363	12,491	14,443	0
30	OH State U. all campuses	23,906	28,251	32,998	31,277	3,703	14,423	12,973	178
31	SUNY Albany	8,541	2,257	2,653	30,653	0	1,882	951	27,820
32	SUNY Stony Brook all campuses	25,283	27,071	29,040	29,737	1,900	10,656	17,181	0
33	U. CA, San Francisco	13,845	27,262	28,798	29,609	0	29,609	0	0
34	U. Central FL	16,754	15,645	21,364	27,738	0	2,159	25,579	0
35	U. PA	23,695	23,609	25,291	27,360	0	12,435	14,925	0
36	Northwestern U.	22,674	23,694	25,858	27,063	0	17,704	6,883	2,476
37	GA Institute of Technology all campuses	21,086	23,024	24,290	26,380	0	14,528	10,655	1,197
38	U. MN all campuses	35,028	22,614	25,690	25,874	1,840	12,001	12,033	0
39	U. CA, Santa Barbara	24,757	25,959	27,030	25,236	0	6,856	12,500	5,880
40	Boston U.	13,499	15,800	24,422	24,437	743	5,893	6,472	11,329
41	U. CA, Davis	21,329	21,445	17,833	24,424	0	8,455	5,043	10,926
42	U. HI Manoa	26,405	22,167	19,576	22,653	15,091	2,240	5,225	97
43	U. CA, Irvine	17,693	20,286	22,611	22,364	0	11,315	11,049	0
44	U. NC Chapel Hill	17,161	18,616	21,482	21,524	0	16,186	5,338	0
45	AZ State U. main campus	22,231	17,772	19,896	21,447	574	11,376	4,578	4,919
46	NC State U.	25,574	20,267	21,499	20,885	0	8,261	12,624	0
47	LA State U. all campuses	17,231	19,668	21,632	20,325	0	13,409	6,811	105
48	U. Pittsburgh all campuses	13,139	13,707	16,654	20,164	1,300	13,025	5,839	0

TABLE 54. R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
49	Yale U.	20,108	20,731	21,254	20,136	967	8,363	10,806	0
50	Purdue U. all campuses	20,461	21,672	21,185	19,563	0	12,776	6,596	191
51	U. of Notre Dame	13,946	17,792	17,230	19,271	0	11,325	7,946	0
52	U. UT	14,605	15,847	18,333	18,915	0	13,519	5,387	9
53	Catholic U. America, The	12,790	18,565	19,606	18,820	0	1,790	4,862	12,168
54	Duke U.	13,377	16,837	16,630	17,878	0	5,434	12,444	0
55	U. CA Office of the President	NA	NA	NA	17,713	15,372	0	2,341	0
56	U. MS all campuses	13,400	15,159	17,432	17,555	0	577	16,978	0
57	Carnegie Mellon U.	9,311	11,263	13,624	17,471	0	4,829	6,426	6,216
58	Rice U.	12,701	14,885	15,469	17,436	343	10,220	6,873	0
59	U. VA all campuses	11,538	14,173	15,315	17,037	1,827	9,088	6,122	0
60	U. DE	12,830	13,042	16,221	16,837	86	9,633	3,095	4,023
61	SUNY Buffalo all campuses	9,189	13,633	15,981	16,751	0	11,898	4,815	38
62	U. IA	15,080	18,547	17,522	16,081	1,123	4,853	10,105	0
63	U. SC all campuses	16,499	24,054	15,099	15,838	0	10,515	3,975	1,348
64	Wayne State U.	14,516	16,058	16,931	15,325	0	6,548	8,777	0
65	WA State U.	5,715	12,242	13,497	15,268	0	6,731	7,786	751
66	VA Polytechnic Institute and State U.	9,298	12,830	14,552	14,460	0	11,332	3,060	68
67	San Francisco State U.	790 i	4 i	7,816 i	14,398 i	0 i	2,854 i	2,849 i	8,695 i
68	ND State U. all campuses	3,140	5,292	12,668	14,277	0	5,168	228	8,881
69	Northeastern U.	9,696	8,969	11,231	14,081	0	3,371	10,710	0
70	MT State U. Bozeman	11,799	12,798	13,067	13,947	0	5,075	8,872	0
71	Washington U. St. Louis	12,940	12,556	13,235	13,905	0	7,473	6,432	0
72	U. TN all campuses	9,579	10,403	12,382	13,636	0	4,683	8,953	0
73	U. NE all campuses	10,438	12,902	12,602	13,548	0	5,414	8,134	0
74	U. IL Chicago	9,107	12,918	13,233	13,385	0	6,612	6,773	0
75	U. OK all campuses	13,690	17,763	15,580	13,057	0	7,745	5,312	0
76	Brown U.	9,546	9,427	10,668	12,924	0 i	5,834 i	7,090 i	0 i
77	Vanderbilt U.	9,903	10,688	13,946	12,777	0	4,312	8,236	229
78	U. GA	10,870	11,145	11,820	12,733	0	8,349	4,384	0
79	U. Southern CA	10,030	8,448	10,276	11,984	169	9,418	2,397	0
80	U. Rochester	12,860	12,725	11,878	11,320	1,237	3,602	6,481	0
81	KS State U.	9,957	11,131	11,174	11,048	0	2,859	8,189	0
82	C. of William and Mary all campuses	5,728	7,603	8,339	10,957	0	885	4,612	5,460
83	Clemson U.	8,047	8,333	10,055	10,835	0	6,004	4,831	0
84	U. Akron all campuses	8,178	10,236	11,638	10,685	0	10,299	386	0
85	MS State U.	5,282	5,284	5,489	10,566	19	6,211	4,336	0
86	IA State U.	10,536	10,218	10,606	10,306	0	6,202	4,052	52
87	CO State U.	8,564	10,549	10,001	10,230	0	7,422	2,601	207
88	U. AR main campus	7,002	11,336	9,073	10,107	0	5,908	4,199	0
89	U. KY all campuses	7,709	7,767	9,126	9,933	0	5,851	4,082	0
90	U. AL Huntsville, The	9,769	12,474	9,704	9,831	0	4,980	4,851	0
91	CUNY City C.	6,097	6,205	7,356	9,541	0	3,480	5,729	332
92	NM State U. all campuses	5,851	10,224	9,337	9,456	1,104	6,012	2,172	168
93	U. MD Baltimore County	5,590	6,134	6,869	9,354	0	4,990	3,347	1,017
94	IL Institute of Technology	1,139	8,041	9,745	9,148	0	649	8,499	0
95	Case Western Reserve U.	6,025	6,600	10,950	8,937	154	4,622	4,161	0
96	Emory U.	9,394	8,673	11,868	8,774	0	7,734	1,040	0
97	OK State U. all campuses	6,105	5,930	9,129	8,524	0	4,812	3,566	146
98	U. TX M. D. Anderson Cancer Ctr.	4,409	4,936	7,097	8,465	0	8,465	0	0

TABLE 54. R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
99	U. Houston	9,405	6,260	5,924	8,401	0	5,425	2,976	0
100	U. Southern MS	4,914	6,824	8,060	8,320	0	8,110	210	0
	All other sampled institutions	467,740	493,261	542,043	570,873	10,613	288,794	238,823	32,643

i = imputed.

NA = not available.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$118 million in total R&D expenditures in the physical sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 55. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
	All institutions	1,972,641	2,132,761	2,356,671	2,566,825	289,176	919,489	1,169,239	188,921
1	Johns Hopkins U., The ^a	109,309	114,292	133,643	146,179	73,522	11,028	54,547	7,082
2	CA Institute of Technology	103,362	102,970	121,492	135,480	5,806	19,685	109,989	0
3	MA Institute of Technology	89,881	96,224	93,550	102,417	14,765	18,774	58,574	10,304
4	Stanford U.	48,502	56,406	71,305	81,910	0	16,668	10,461	54,781
5	U. CA, Berkeley	52,604	54,879	58,292	75,959	4,620	19,988	51,321	30
6	U. AZ	40,321	42,685	62,584	74,058	61,888	8,758	3,412	0
7	Cornell U. all campuses	44,655	44,674	55,800	56,657	4,092	15,350	32,005	5,210
8	U. TX Austin	42,500	52,700	51,027	55,000	4,557	16,136	34,118	189
9	U. CO all campuses	64,575	52,783	57,555	51,571	16,196	12,843	19,183	3,349
10	U. CA, Los Angeles	31,178	33,954	39,145	43,093	0	15,453	27,640	0
11	PA State U. all campuses	36,777	39,869	40,089	41,873	7,446	14,573	19,854	0
12	U. MD College Park	32,982	57,640	42,879	41,245	8,744	7,324	25,177	0
13	Harvard U.	31,346	32,752	33,784	38,678	2,768	19,617	14,087	2,206
14	U. Chicago	27,664	27,553	32,600	37,518	16,803	7,315	9,657	3,743
15	U. WI Madison	32,878	32,913	32,695	35,815	2,694	10,830	17,597	4,694
16	U. IL Urbana-Champaign	30,747	30,780	31,765	34,848	2,298	14,295	18,255	0
17	MI State U.	28,919	27,149	30,314	33,638	0	8,358	25,280	0
18	Columbia U. in the City of NY	33,143	31,122	33,643	32,918	5,038	6,655	2,458	18,767
19	U. WA	20,482	20,100	26,603	32,044	2,110	17,900	12,034	0
20	U. CA, San Diego	25,428	28,434	31,052	31,947	2,469	14,648	13,150	1,680
21	FL State U.	19,716	24,809	26,052	27,702	0	4,821	22,881	0
22	U. MI all campuses	20,839	21,585	25,355	26,627	1,496	11,701	13,181	249
23	U. FL	14,377	17,554	18,691	24,770	1,737	9,667	13,240	126
24	Boston U.	12,961	14,626	23,458	23,839	734	5,587	6,416	11,102
25	U. PA	21,681	21,498	21,122	23,112	0	10,852	12,260	0
26	U. CA, San Francisco	11,198	20,915	22,787	22,215	0	22,215	0	0
27	Princeton U.	18,987	20,523	19,415	21,732	2,709	8,271	10,752	0
28	OH State U. all campuses	13,936	15,518	17,776	20,759	1,563	9,461	9,732	3
29	Northwestern U.	15,507	15,577	17,883	20,551	0	13,631	5,156	1,764
30	TX A&M U. all campuses	11,292	14,199	16,048	20,316	0	8,652	10,472	1,192
31	U. HI Manoa	13,645	16,740	17,746	20,193	13,586	1,564	4,961	82
32	SUNY Stony Brook all campuses	16,748	17,782	19,062	19,977	1,858	7,060	11,059	0
33	Rutgers, The State U. NJ all campuses	13,166	16,334	17,108	19,613	0	12,276	7,337	0
34	U. MN all campuses	26,233	18,529	19,609	19,610	957	8,956	9,697	0
35	U. MA Amherst	11,495	14,493	16,719	19,128	6,387	10,315	2,426	0
36	U. CA, Santa Cruz	11,894	12,816	15,627	18,733	7,639	6,108	4,986	0
37	U. CA, Santa Barbara	19,170	19,037	19,814	18,087	0	5,609	8,342	4,136
38	U. Pittsburgh all campuses	11,341	12,023	14,647	17,663	1,295	11,283	5,085	0
39	U. of Notre Dame	12,814	14,777	15,915	17,370	0	10,204	7,166	0
40	Yale U.	17,867	17,511	17,726	16,383	362	6,348	9,673	0
41	U. NC Chapel Hill	13,755	13,325	16,616	15,909	0	12,753	3,156	0
42	IN U. all campuses	17,231	17,371	17,561	15,566	264	6,920	8,368	14
43	U. MS all campuses	11,879	13,259	15,129	15,358	0	534	14,824	0
44	Duke U.	10,799	13,054	14,090	15,267	0	4,155	11,112	0
45	Catholic U. America, The	10,453	15,129	15,459	15,229	0	1,365	3,942	9,922
46	U. Central FL	5,363	7,160	12,470	15,123	0	1,718	13,405	0
47	GA Institute of Technology all campuses	9,894	11,207	14,154	15,064	0	8,500	6,509	55
48	U. VA all campuses	9,901	12,595	13,575	15,063	1,620	8,036	5,407	0

TABLE 55. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
49	Rice U.	10,359	12,398	12,849	14,824	284	8,447	6,093	0
50	U. CA, Davis	14,233	13,923	13,693	14,688	0	6,628	3,260	4,800
51	U. CA, Irvine	12,331	14,134	14,730	13,910	0	6,931	6,979	0
52	U. DE	9,118	8,939	12,981	13,825	69	7,890	2,486	3,380
53	Purdue U. all campuses	13,134	14,492	14,750	13,736	0	8,419	5,317	0
54	U. UT	10,502	11,745	12,389	13,352	0	9,164	4,188	0
55	ND State U. all campuses	2,177	4,168	11,108	13,227	0	4,433	180	8,614
56	U. IA	12,700	14,509	14,019	13,064	935	3,711	8,418	0
57	LA State U. all campuses	10,861	12,330	11,731	12,687	0	8,454	4,233	0
58	MT State U. Bozeman	9,532	9,776	11,052	12,397	0	4,080	8,317	0
59	AZ State U. main campus	9,700	8,831	10,831	11,252	0	6,259	3,545	1,448
60	Vanderbilt U.	8,305	9,158	10,700	11,132	0	3,587	7,323	222
61	Northeastern U.	7,318	6,089	8,311	10,642	0	1,644	8,998	0
62	WA State U.	4,589	8,289	9,005	10,332	0	3,318	6,669	345
63	Washington U. St. Louis	9,644	9,951	10,255	10,189	0	5,401	4,788	0
64	Carnegie Mellon U.	7,251	8,627	9,672	10,135	0	3,796	5,850	489
65	U. IL Chicago	5,972	7,768	8,860	10,035	0	4,615	5,420	0
66	U. Rochester	11,298	11,199	10,210	9,926	1,135	2,885	5,906	0
67	U. TN all campuses	7,486	7,991	8,720	9,606	0	3,396	6,210	0
68	SUNY Buffalo all campuses	4,109	7,497	8,354	9,446	0	6,269	3,177	0
69	NC State U.	12,176	9,282	9,156	9,439	0	3,727	5,712	0
70	KS State U.	8,358	9,489	10,337	9,361	0	2,225	7,136	0
71	Wayne State U.	7,453	8,511	6,951	8,772	0	4,465	4,307	0
72	U. MD Baltimore County	4,990	5,129	6,350	8,721	0	4,679	3,051	991
73	San Francisco State U.	719 i	3 i	1,405 i	8,551 i	0 i	2,854 i	2,849 i	2,848 i
74	U. SC all campuses	8,495	9,103	7,234	8,480	0	5,844	2,276	360
75	C. of William and Mary all campuses	3,380	5,458	5,736	8,185	0	271	4,225	3,689
76	NM State U. all campuses	5,255	8,846	8,311	8,144	973	5,270	1,752	149
77	CO State U.	6,900	7,483	7,242	7,963	0	6,004	1,841	118
78	U. AR main campus	4,702	8,081	6,091	7,915	0	4,657	3,258	0
79	Emory U.	6,350	5,365	6,594	7,728	0	6,764	964	0
80	U. AL Huntsville, The	7,157	9,413	7,410	7,705	0	3,656	4,049	0
81	Case Western Reserve U.	5,361	6,022	8,748	7,635	154	3,842	3,639	0
82	VA Polytechnic Institute and State U.	4,135	6,545	8,159	7,526	0	6,218	1,308	0
83	U. NE all campuses	6,289	7,605	7,684	7,460	0	2,577	4,883	0
84	Brown U.	5,136	5,126	5,995	7,333	0 i	3,079 i	4,254 i	0 i
85	U. NV, Reno	4,344	4,997	6,565	7,315	60	774	6,158	323
86	U. NM all campuses	5,570	7,285	7,375	7,084	0	2,731	4,032	321
87	U. OR	6,766	7,214	6,874	7,071	0	3,513	3,558	0
88	Boston C.	5,725	6,743	6,851	6,851 e	0 e	5,222 e	1,629 e	0 e
89	CUNY City C.	4,955	5,245	5,702	6,694	0	2,937	3,621	136
90	NY U.	4,165	5,822	7,983	6,523	0	4,395	2,128	0
91	U. Southern CA	6,910	5,870	6,397	6,303	83	4,760	1,460	0
92	IA State U.	5,811	5,754	6,596	6,255	0	3,706	2,497	52
93	U. Southern MS	3,620	4,915	6,058	6,065	0	5,861	204	0
94	U. OK all campuses	7,654	9,501	5,482	5,986	0	2,918	3,068	0
95	U. CA, Riverside	5,088	5,467	6,740	5,936	0	3,570	2,366	0
96	OK State U. all campuses	2,092	2,979	5,182	5,912	0	3,556	2,252	104
97	U. KY all campuses	5,307	4,418	5,297	5,834	0	3,671	2,163	0
98	U. KS all campuses	2,736	4,970	5,143	5,739	177	3,013	2,549	0

TABLE 55. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by all FY 2004 physical sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				
					All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
99	CO School of Mines	5,026	5,816	6,886	5,677	0	506	5,171	0
100	U. TX M. D. Anderson Cancer Ctr.	3,172	3,452	4,956	5,586	0	5,586	0	0
	All other sampled institutions	284,830	299,213	337,530	372,864	7,283	182,551	163,178	19,852

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$117 million in federally financed R&D expenditures in the physical sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 56. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by FY 2004 total for the first 100 institutions:
FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	1,007,299	1,130,787	1,227,116	1,316,897	659,757	738,292	820,302	919,489
1	U. CA, San Francisco	13,845	27,256	28,798	29,609	11,198	20,915	22,787	22,215
2	U. CA, Berkeley	21,339	21,787	24,907	25,984	14,617	15,867	17,078	19,988
3	U. TX Austin	11,640	22,782	23,382	24,154	5,163	14,104	15,122	16,136
4	CA Institute of Technology	15,357	15,590	18,099	22,968	13,092	12,135	15,279	19,685
5	PA State U. all campuses	18,042	17,070	18,214	22,330	10,201	10,312	11,001	14,573
6	Harvard U.	17,446	15,549	19,456	22,135	14,166	13,637	17,490	19,617
7	U. IL Urbana-Champaign	20,091	20,962	20,949	21,217	12,239	12,266	12,336	14,295
8	MA Institute of Technology	18,063	18,352	20,184	20,926	16,380	16,357	17,551	18,774
9	Cornell U. all campuses	11,013	13,340	20,804	20,600	7,743	8,944	15,897	15,350
10	U. CA, Los Angeles	15,071	17,758	19,607	20,453	11,339	13,074	14,598	15,453
11	U. CA, San Diego	11,131	14,593	17,530	19,638	8,742	11,311	12,749	14,648
12	TX A&M U. all campuses	17,206	18,587	19,703	19,475	6,629	8,450	8,532	8,652
13	U. WA	9,597	13,934	16,947	19,354	6,437	8,656	12,522	17,900
14	Stanford U.	15,752	17,856	18,097	18,863	13,425	14,844	15,496	16,668
15	U. MA Amherst	10,509	13,387	15,688	18,074	5,467	7,103	8,567	10,315
16	Northwestern U.	13,733	13,776	16,108	17,704	10,383	10,134	11,484	13,631
17	U. WI Madison	12,935	15,214	15,546	17,115	7,301	8,053	9,174	10,830
18	Rutgers, The State U. NJ all campuses	13,190	16,891	15,552	16,416	7,972	11,031	10,992	12,276
19	U. NC Chapel Hill	12,652	13,446	16,045	16,186	10,150	9,294	12,455	12,753
20	IN U. all campuses	14,316	13,737	14,701	15,642	6,212	5,584	6,503	6,920
21	U. CO all campuses	14,229	15,623	15,164	14,960	12,242	13,602	13,251	12,843
22	U. MI all campuses	10,957	11,623	15,191	14,901	8,722	9,041	11,202	11,701
23	GA Institute of Technology all campuses	9,027	8,948	9,652	14,528	4,236	4,356	4,934	8,500
24	OH State U. all campuses	12,174	14,174	15,512	14,423	6,734	7,691	8,271	9,461
25	FL State U.	11,635	13,709	13,321	13,841	3,873	4,015	5,344	4,821
26	U. UT	10,086	10,349	12,247	13,519	7,483	7,186	7,902	9,164
27	LA State U. all campuses	8,632	11,104	14,200	13,409	5,828	7,005	7,470	8,454
28	MI State U.	10,488	14,142	13,230	13,234	5,425	6,186	7,452	8,358
29	U. Pittsburgh all campuses	7,943	7,668	9,630	13,025	6,812	6,628	8,516	11,283
30	U. FL	11,359	12,154	11,594	13,011	7,180	7,901	7,262	9,667
31	Purdue U. all campuses	12,194	13,553	13,268	12,776	7,831	8,496	8,219	8,419
32	Princeton U.	11,314	11,316	11,278	12,491	6,291	7,920	7,397	8,271
33	U. PA	11,110	11,107	11,165	12,435	10,112	10,158	9,505	10,852
34	U. MN all campuses	8,860	9,372	9,569	12,001	6,476	6,866	7,051	8,956
35	SUNY Buffalo all campuses	5,711	10,407	12,382	11,898	2,194	5,243	5,895	6,269
36	Johns Hopkins U., The ^a	12,124	10,512	11,330	11,890	11,681	10,090	10,753	11,028
37	AZ State U. main campus	12,416	8,244	10,162	11,376	5,237	4,401	5,513	6,259
38	VA Polytechnic Institute and State U.	6,461	9,524	11,694	11,332	2,621	4,577	6,598	6,218
39	U. of Notre Dame	8,960	11,252	10,657	11,325	8,177	8,886	9,559	10,204
40	U. CA, Irvine	9,863	9,949	10,856	11,315	7,180	7,196	7,175	6,931
41	U. AZ	9,908	9,253	10,874	11,312	7,336	6,853	8,174	8,758
42	SUNY Stony Brook all campuses	6,730	8,203	9,007	10,656	4,446	5,735	6,287	7,060
43	U. SC all campuses	9,228	12,358	8,911	10,515	5,316	5,557	4,468	5,844
44	U. Akron all campuses	8,108	10,091	11,260	10,299	3,179	3,669	3,561	3,332
45	Rice U.	7,390	9,273	9,294	10,220	5,627	7,469	7,421	8,447
46	U. Chicago	9,403	7,387	8,802	10,083	5,643	6,020	6,775	7,315
47	U. DE	6,043	6,332	8,931	9,633	4,023	4,050	6,894	7,890
48	U. MD College Park	7,242	8,480	10,067	9,432	5,825	6,624	7,448	7,324
49	U. Southern CA	8,010	6,859	8,890	9,418	5,187	4,484	5,321	4,760
50	U. VA all campuses	6,583	7,535	8,377	9,088	5,328	6,498	7,234	8,036

TABLE 56. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
51	U. TX M. D. Anderson Cancer Ctr.	0	0	0	8,465	0	0	0	5,586
52	U. CA, Davis	6,771	6,249	7,526	8,455	5,645	4,783	5,488	6,628
53	Yale U.	6,751	6,964	8,062	8,363	5,854	5,199	5,991	6,348
54	U. GA	6,977	6,735	7,521	8,349	2,087	2,077	2,607	3,073
55	NC State U.	11,143	8,829	8,198	8,261	5,427	3,954	3,666	3,727
56	U. Southern MS	4,741	6,506	7,637	8,110	3,447	4,597	5,636	5,861
57	U. OK all campuses	10,574	12,853	10,237	7,745	6,025	6,871	2,566	2,918
58	Emory U.	8,037	7,526	10,667	7,734	5,537	4,615	5,729	6,764
59	U. CA, Santa Cruz	5,838	6,274	6,656	7,646	3,852	4,464	5,055	6,108
60	Washington U. St. Louis	5,035	5,993	6,547	7,473	3,826	4,470	4,744	5,401
61	CO State U.	5,917	7,508	6,617	7,422	4,916	5,705	5,372	6,004
62	Columbia U. in the City of NY	7,983	6,628	7,746	7,284	7,306	6,145	7,341	6,655
63	U. CA, Santa Barbara	6,656	6,545	7,318	6,856	4,657	5,031	5,708	5,609
64	WA State U.	3,048	5,902	6,266	6,731	2,245	2,740	2,685	3,318
65	U. IL Chicago	4,023	6,335	6,319	6,612	2,793	3,460	4,402	4,615
66	Wayne State U.	6,874	8,233	7,947	6,548	4,053	4,457	4,520	4,465
67	Boston C.	5,843	6,223	6,330	6,330 e	4,331	5,074	5,222	5,222 e
68	MS State U.	4,550	4,147	3,639	6,211	1,411	1,202	608	2,094
69	IA State U.	5,503	7,307	6,702	6,202	2,860	3,508	4,190	3,706
70	CUNY Hunter C.	4,101	3,943	5,994	6,149	2,682	2,959	4,486	4,399
71	NM State U. all campuses	2,826	5,591	5,488	6,012	2,732	4,890	4,901	5,270
72	Clemson U.	3,933	4,786	5,667	6,004	1,835	2,296	2,927	2,497
73	U. AR main campus	3,273	6,945	5,469	5,908	2,134	5,483	4,151	4,657
74	Boston U.	2,557	3,059	3,827	5,893	2,374	2,904	3,567	5,587
75	U. KY all campuses	4,121	4,391	5,819	5,851	3,249	2,174	3,332	3,671
76	Brown U.	4,330	4,272 i	4,821 i	5,834 i	2,158	2,153 i	2,518 i	3,079 i
77	Duke U.	4,417	5,921	5,416	5,434	2,619	3,276	3,824	4,155
78	U. Houston	6,074	4,121	4,330	5,425	2,889	2,080	2,310	2,366
79	U. NE all campuses	5,681	5,812	4,522	5,414	3,644	3,063	2,397	2,577
80	NY U.	2,456	3,637	5,300	5,373	2,168	3,346	4,592	4,395
81	ND State U. all campuses	2,894	4,492	4,958	5,168	2,008	3,468	3,870	4,433
82	MT State U. Bozeman	4,542	5,521	5,109	5,075	3,632	4,129	4,313	4,080
83	U. MD Baltimore County	3,280	3,760	3,950	4,990	3,012	3,112	3,541	4,679
84	U. AL Huntsville, The	5,413	6,882	5,080	4,980	3,665	4,943	3,647	3,656
85	U. IA	3,820	4,139	4,091	4,853	2,427	2,655	3,170	3,711
86	Carnegie Mellon U.	2,867	4,326	4,904	4,829	2,341	3,086	3,668	3,796
87	OK State U. all campuses	2,363	2,776	5,150	4,812	932	1,463	2,991	3,556
88	U. TN all campuses	3,044	3,998	4,937	4,683	2,467	2,852	3,517	3,396
89	U. CA, Riverside	4,859	4,900	4,725	4,656	3,104	3,379	3,605	3,570
90	U. TX Dallas	1,857 e	2,655	5,209	4,629	770 e	1,307	2,459	2,256
91	Case Western Reserve U.	3,489	3,445	3,714	4,622	2,985	3,012	3,267	3,842
92	VA Commonwealth U.	5,269	4,571	4,328	4,560	3,466	2,665	2,516	3,313
93	Rockefeller U.	1,929	3,169	4,004	4,482	1,497	2,153	2,917	3,351
94	U. OR	3,969	4,279	4,315	4,404	3,256	3,283	3,290	3,513
95	Vanderbilt U.	3,171	4,355	4,546	4,312	2,717	3,632	3,714	3,587

TABLE 56. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
96	U. Cincinnati all campuses	2,873	3,288	3,796	4,184	707	1,128	1,406	1,434
97	U. KS all campuses	3,099	3,420	3,856	4,124	1,142	1,864	2,033	3,013
98	TX Tech U.	4,150	5,708	5,479	4,076	1,129	1,290	1,627	1,532
99	U. ME	1,141	2,373	3,439	4,023	389	879	1,839	2,847
100	Tufts U.	1,379	1,222	2,048	4,022	1,070	956	1,588	3,524
	All other sampled institutions	204,742	219,905	234,058	254,130	125,184	137,586	150,324	168,541

e = estimated.

i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$4 million in total R&D expenditures in chemistry.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 57. Total and federally financed R&D expenditures in physics at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	1,240,452	1,286,481	1,417,777	1,522,134	926,913	975,104	1,087,962	1,169,239
1	CA Institute of Technology	58,873	59,403	101,601	110,465	57,498	59,051	101,470	109,989
2	U. CA, Berkeley	48,272	47,182	47,923	61,480	34,352	34,841	36,985	51,321
3	MA Institute of Technology	58,449	60,509	56,334	58,656	57,628	59,772	56,151	58,574
4	Johns Hopkins U., The ^a	52,412	58,558	58,531	55,548	51,802	58,028	57,604	54,547
5	Cornell U. all campuses	34,050	34,326	36,036	39,675	29,203	27,487	29,908	32,005
6	MI State U.	34,944	33,259	37,123	39,043	23,494	20,963	22,862	25,280
7	U. TX Austin	37,520	38,683	38,079	38,484	33,578	34,366	31,910	34,118
8	U. CA, Los Angeles	32,337	35,062	37,110	37,827	19,839	20,880	24,547	27,640
9	FL State U.	30,696	35,655	35,502	36,949	15,597	20,794	20,708	22,881
10	U. MD College Park	18,202	18,175	21,363	35,540	13,938	14,512	15,482	25,177
11	IN U. all campuses	19,987	19,699	18,847	34,893	10,820	11,672	10,823	8,368
12	PA State U. all campuses	21,380	24,027	27,865	27,247	13,571	16,947	19,825	19,854
13	U. Central FL	13,040	13,760	17,179	25,579	4,129	5,579	8,580	13,405
14	U. IL Urbana-Champaign	21,004	21,795	22,969	24,998	14,586	14,877	16,489	18,255
15	U. WI Madison	22,952	22,052	20,733	21,969	17,960	17,726	16,094	17,597
16	U. CO all campuses	14,088	15,999	18,623	21,147	12,725	14,484	17,171	19,183
17	U. CA, San Diego	13,566	16,067	18,116	19,265	10,310	11,711	13,587	13,150
18	U. FL	9,209	13,727	14,956	18,142	5,767	8,499	10,064	13,240
19	SUNY Stony Brook all campuses	17,331	17,539	18,157	17,181	11,335	10,974	11,289	11,059
20	U. MS all campuses	12,706	14,333	16,752	16,978	11,279	12,535	14,530	14,824
21	U. MI all campuses	13,013	14,264	16,214	16,865	10,959	11,277	13,155	13,181
22	Rutgers, The State U. NJ all campuses	13,677	14,532	15,399	16,484	5,194	5,303	6,116	7,337
23	U. PA	12,585	12,502	14,126	14,925	11,569	11,340	11,617	12,260
24	TX A&M U. all campuses	7,363	9,224	11,009	14,793	4,360	5,407	6,825	10,472
25	Harvard U.	12,745	16,076	14,139	14,567	12,225	15,613	13,736	14,087
26	Princeton U.	14,002	13,090	13,232	14,443	11,172	10,469	9,644	10,752
27	OH State U. all campuses	10,086	11,843	14,104	12,973	6,166	6,763	7,781	9,732
28	U. WA	16,869	11,687	14,023	12,725	12,395	10,257	12,506	12,034
29	NC State U.	14,006	10,489	13,301	12,624	6,411	4,617	5,490	5,712
30	U. CA, Santa Barbara	12,191	13,485	12,592	12,500	9,260	9,530	8,878	8,342
31	Duke U.	8,960	10,916	11,214	12,444	8,180	9,778	10,266	11,112
32	U. MN all campuses	24,214	11,383	14,478	12,033	18,143	10,125	11,804	9,697
33	U. Chicago	8,821	11,979	7,198	11,308	8,270	7,674	5,842	9,657
34	Stanford U.	6,103	5,423	7,486	11,263	5,770	5,042	6,902	10,461
35	U. CA, Irvine	7,830	10,337	11,755	11,049	5,151	6,938	7,555	6,979
36	Yale U.	12,335	12,984	12,289	10,806	11,121	11,788	11,061	9,673
37	Northeastern U.	7,019	5,892	8,186	10,710	5,467	4,378	6,904	8,998
38	GA Institute of Technology all campuses	11,843	12,682	13,484	10,655	5,557	6,173	9,099	6,509
39	U. IA	10,259	12,967	11,678	10,105	9,272	10,669	9,764	8,418
40	U. TN all campuses	6,535	6,405	7,445	8,953	5,019	5,139	5,203	6,210
41	MT State U. Bozeman	7,257	7,277	7,958	8,872	5,900	5,647	6,739	8,317
42	Wayne State U.	7,642	7,825	8,984	8,777	3,400	4,054	2,431	4,307
43	IL Institute of Technology	940	7,489	9,053	8,499	634	2,312	3,648	4,243
44	U. CA, Santa Cruz	8,501	6,243	8,628	8,454	3,527	3,467	5,342	4,986
45	Vanderbilt U.	6,732	6,333	9,400	8,236	5,588	5,526	6,986	7,323
46	KS State U.	7,396	8,199	8,058	8,189	6,502	7,070	7,598	7,136
47	U. NE all campuses	4,757	7,090	8,080	8,134	2,645	4,542	5,287	4,883
48	U. of Notre Dame	4,986	6,362	6,573	7,946	4,637	5,891	6,356	7,166
49	WA State U.	2,623	5,934	6,750	7,786	2,344	5,195	5,941	6,669
50	Brown U.	5,216	5,155 i	5,847 i	7,090 i	2,978	2,973 i	3,477 i	4,254 i

TABLE 57. Total and federally financed R&D expenditures in physics at universities and colleges, ranked by FY 2004 total for the first 100 institutions:
FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
51	NJ Institute of Technology	4,939	5,469	6,099	6,953	2,848	2,901	3,874	4,786
52	Northwestern U.	5,218	5,419	6,235	6,883	3,492	3,321	4,165	5,156
53	Rice U.	3,312	4,202	5,307	6,873	2,920	3,708	4,646	6,093
54	LA State U. all campuses	8,237	8,483	7,353	6,811	5,033	5,274	4,260	4,233
55	U. IL Chicago	5,084	6,583	6,914	6,773	3,179	4,308	4,458	5,420
56	Purdue U. all campuses	8,267	8,119	7,917	6,596	5,303	5,996	6,531	5,317
57	U. NV, Reno	2,952	3,585	4,984	6,528	2,935	3,520	4,702	6,158
58	U. Rochester	8,395	7,675	7,140	6,481	7,492	6,977	6,333	5,906
59	Boston U.	4,629	4,780	6,496	6,472	4,535	4,696	6,401	6,416
60	Washington U. St. Louis	7,905	6,563	6,688	6,432	5,818	5,481	5,511	4,788
61	Carnegie Mellon U.	5,646	6,344	6,359	6,426	4,910	4,948	5,502	5,850
62	U. VA all campuses	3,407	5,213	5,406	6,122	3,146	4,764	4,936	5,407
63	U. Pittsburgh all campuses	4,310	4,992	5,895	5,839	3,694	4,398	5,092	5,085
64	CUNY City C.	2,707	2,799	3,405	5,729	1,924	2,255	2,258	3,621
65	Columbia U. in the City of NY	2,493	2,383	3,239	5,647	2,018	1,993	2,683	2,458
66	U. MA Lowell	3,556	3,390	5,341	5,556	2,863	2,798	4,629	4,791
67	U. UT	4,319	5,391	5,910	5,387	3,019	4,559	4,487	4,188
68	U. NC Chapel Hill	4,509	5,170	5,437	5,338	3,605	4,031	4,161	3,156
69	U. OK all campuses	3,116	4,910	5,343	5,312	1,629	2,630	2,916	3,068
70	CO School of Mines	4,918	5,500	6,554	5,308	4,530	5,041	6,202	5,171
71	U. HI Manoa	4,044	4,765	4,038	5,225	3,797	4,677	3,951	4,961
72	Northern IL U.	2,749	3,855	5,820	5,111	1,158	1,421	2,923	2,821
73	U. MA Amherst	4,295	4,105	4,891	5,108	2,019	1,941	2,608	2,426
74	U. CA, Davis	4,872	5,345	4,844	5,043	3,206	3,216	3,192	3,260
75	Fisk U.	2,702	3,000	3,000	5,000	2,559	3,000	3,000	5,000
76	Catholic U. America, The	3,053	4,293	4,892	4,862	2,833	3,526	3,994	3,942
77	U. AL Huntsville, The	4,356	5,592	4,624	4,851	3,492	4,470	3,763	4,049
78	Clemson U.	4,114	3,547	4,388	4,831	2,528	2,333	2,854	2,804
79	SUNY Buffalo all campuses	3,342	3,181	3,550	4,815	1,915	2,254	2,459	3,177
80	C. of William and Mary all campuses	2,872	4,469	3,310	4,612	2,461	4,095	2,984	4,225
81	U. AZ	4,619	5,763	6,814	4,583	3,693	4,759	5,503	3,412
82	AZ State U. main campus	4,258	3,438	3,646	4,578	2,724	2,696	2,742	3,545
83	U. NM all campuses	3,492	5,424	5,277	4,505	3,174	5,015	4,645	4,032
84	OH U. all campuses	3,151	3,124	2,881	4,477	2,285	2,077	2,014	3,135
85	ID State U.	1,457	2,155	2,995	4,398	418	727	1,864	2,662
86	FL International U.	320	586	555	4,389	173	394	434	3,310
87	U. GA	3,893	4,410	4,299	4,384	1,290	1,798	1,491	1,544
88	MS State U.	732	1,137	1,850	4,336	200	566	774	2,102
89	Lehigh U.	1,687	1,316	2,915	4,261	1,483	1,222	1,267	1,360
90	U. AR main campus	3,729	4,391	3,604	4,199	2,568	2,598	1,940	3,258
91	Case Western Reserve U.	2,243	2,854	3,890	4,161	2,088	2,709	3,075	3,639
92	U. KY all campuses	3,588	3,376	3,307	4,082	2,058	2,244	1,965	2,163
93	IA State U.	5,033	2,911	3,897	4,052	2,951	2,246	2,399	2,497
94	U. SC all campuses	4,508	4,774	4,565	3,975	2,842	3,239	2,404	2,276
95	U. OR	3,942	4,414	4,145	3,876	3,510	3,931	3,584	3,558

TABLE 57. Total and federally financed R&D expenditures in physics at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
96	U. Toledo	1,071	1,951	3,167	3,754	825	926	1,678	2,193
97	OK State U. all campuses	3,475	3,002	3,972	3,566	1,056	1,436	2,191	2,252
98	U. CT all campuses	3,508	3,967	3,281	3,527	1,957	2,365	2,056	2,561
99	U. KS all campuses	2,452	4,068	3,913	3,513	1,328	2,830	2,843	2,549
100	Naval Postgraduate School	3,028 i	3,455 i	3,285	3,436 i	2,876 i	3,271 i	3,076	3,402 i
	All other sampled institutions	188,424	174,966	197,658	191,884	127,326	122,868	144,510	138,682

i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$47 million in total R&D expenditures in physics.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 58. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	582,789	671,963	768,615	782,481	398,499	475,251	552,544	586,800
1	U. WI Madison	22,838	24,743	26,189	29,329	16,715	18,587	21,042	22,945
2	PA State U. all campuses	12,530	12,634	17,220	18,626	6,864	7,581	10,256	11,985
3	NY U.	11,233	14,629	13,380	14,903	9,219	12,247	11,478	12,179
4	U. Rochester	10,161	11,737	11,811	14,732	6,508	7,591	8,056	10,461
5	U. IL Urbana-Champaign	9,320	9,485	11,536	14,265	5,754	5,483	6,564	8,754
6	U. GA	8,421	10,302	13,186	14,005	3,585	5,093	7,935	8,130
7	U. CT all campuses	6,608	7,375	10,898	12,908	3,910	5,783	8,547	10,223
8	U. MN all campuses	8,201	9,768	12,518	12,864	5,269	6,717	8,557	8,830
9	IN U. all campuses	9,652	10,500	11,462	12,234	6,380	6,762	7,644	8,089
10	U. CA, Los Angeles	10,688	11,188	11,905	11,982	7,251	7,211	8,194	8,990
11	GA State U.	6,586	9,009	9,553	11,634	3,456	5,992	6,658	8,793
12	U. CA, Berkeley	8,244	9,823	11,820	11,531	4,239	6,310	8,065	7,944
13	Rutgers, The State U. NJ all campuses	8,420	9,527	10,809	11,378	3,029	4,003	4,732	5,318
14	U. Memphis, The	9,788	11,084	11,373	11,065	4,537	5,661	6,682	5,756
15	U. MI all campuses	11,049	12,259	10,150	10,823	5,701	8,317	9,348	9,649
16	Temple U.	11,604	10,482	11,558	10,338	7,230	7,143	8,113	6,738
17	U. Miami	7,749	8,412	9,848	10,194	7,625	8,213	9,530	9,737
18	OR Health & Science U.	5,495	6,350 e	10,680	10,047	5,343	6,252 e	10,221	9,917
19	U. CO all campuses	9,635	8,246	9,560	9,908	8,097	7,206	8,621	8,629
20	Princeton U.	3,892	5,404	7,812	9,863	2,195	3,944	5,595	7,519
21	U. NE all campuses	6,006	7,175	8,543	9,650	3,777	4,215	5,210	5,539
22	Vanderbilt U.	3,601	5,940	10,519	9,639	2,643	4,655	7,298	7,655
23	San Jose State U.	5,714	6,530	8,155	9,056	5,694	6,527	8,155	9,056
24	San Diego State U.	6,714	7,975	9,021	9,020	3,715	3,826	4,924	5,347
25	U. FL	5,845	6,371	7,945	8,952	3,831	4,945	6,197	7,871
26	U. WA	9,316	8,718	8,640	8,863	7,998	7,485	7,897	8,359
27	AZ State U. main campus	6,399	6,308	8,323	8,694	4,251	4,996	7,164	6,872
28	Stanford U.	4,906	4,837	6,530	8,602	3,880	3,672	5,245	6,864
29	FL State U.	5,922	6,579	6,371	8,574	3,907	3,065	2,804	4,880
30	Yale U.	4,720	5,987	6,311	8,249	3,978	3,735	4,271	5,666
31	Harvard U.	3,964	6,168	6,459	8,245	3,648	5,901	6,285	7,769
32	U. OR	4,373	8,848	5,897	8,135	4,048	8,505	5,527	7,496
33	U. TX M. D. Anderson Cancer Ctr.	0	0	7,856	7,966	0	0	4,113	4,984
34	Carnegie Mellon U.	6,460	7,016	11,111	7,637	4,336	6,295	9,532	6,850
35	U. TX Austin	4,336	5,350	7,186	7,560	3,735	4,748	6,572	6,931
36	U. AL Birmingham, The	5,495	5,895	7,266	7,514	5,091	5,374	6,445	6,920
37	U. Pittsburgh all campuses	4,791	5,669	6,878	7,488	4,540	5,451	6,515	6,997
38	U. CA, San Diego	5,831	6,182	6,935	7,369	4,931	5,258	5,529	5,889
39	U. VA all campuses	3,001	5,070	6,367	7,287	2,759	4,467	5,864	6,430
40	U. MO-Columbia	5,274	4,506	8,306	7,273	3,000	2,700	3,899	4,941
41	OH State U. all campuses	5,719	7,876	8,297	6,752	4,068	5,353	5,098	5,020
42	Boston U.	4,879	6,004	6,193	6,622	4,773	5,823	6,157	6,601
43	U. IL Chicago	5,832	6,273	6,195	6,566	3,475	4,014	3,961	4,154
44	MI State U.	5,401	5,983	6,633	6,472	3,853	3,940	4,128	3,832
45	U. Chicago	2,620	3,844	5,629	6,346	2,588	3,813	5,611	5,926
46	U. SC all campuses	3,596	3,102	5,377	6,162	2,416	2,064	2,916	4,685
47	CUNY Hunter C.	2,899	4,141	5,524	6,133	2,113	3,205	3,788	4,617
48	Dartmouth C.	4,685	5,868	5,579	6,070	3,473	4,173	3,972	3,907
49	U. NC Chapel Hill	4,282	5,584	6,447	6,065	3,871	4,669	5,552	5,359
50	Johns Hopkins U., The ^a	3,940	3,371	4,315	5,846	3,691	3,250	3,954	5,218

TABLE 58. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
51	U. NM all campuses	7,168	9,373	6,453	5,665	5,050	7,790	4,552	4,631
52	U. Houston	3,445	8,457	3,294	5,618	1,733	6,205	1,673	4,632
53	Purdue U. all campuses	4,010	4,524	5,810	5,494	2,262	2,598	3,365	3,748
54	U. IA	4,201	4,521	4,958	5,477	3,423	3,897	4,471	5,056
55	Cornell U. all campuses	6,425	7,055	6,920	5,388	1,942	2,302	2,693	2,462
56	U. PA	3,483	3,504	4,978	5,122	3,050	2,982	4,494	4,889
57	U. KY all campuses	872	3,400	3,158	5,099	749	2,887	2,669	3,768
58	U. MA Amherst	5,360	5,144	5,067	5,077	3,884	3,555	3,558	3,442
59	VA Commonwealth U.	3,096	3,214	5,101	4,875	2,166	2,259	3,250	3,041
60	U. MD College Park	3,873	3,970	4,203	4,798	2,677	3,019	3,936	4,634
61	SUNY Buffalo all campuses	3,360	3,964	5,120	4,749	1,463	2,006	2,719	2,510
62	U. Southern CA	5,013	4,650	6,258	4,615	3,895	3,625	4,678	3,379
63	Washington U. St. Louis	2,225	3,039	3,250	4,475	1,864	2,215	2,302	3,030
64	U. HI Manoa	382	761	111	4,148	237	646	64	4,079
65	U. AZ	3,403	3,342	3,820	4,136	1,705	2,131	2,563	2,960
66	Northwestern U.	2,894	3,314	4,177	4,098	2,305	2,800	3,414	3,312
67	Tufts U.	3,357	4,133	3,619	4,042	1,935	1,725	1,385	2,104
68	Teachers C. Columbia U.	3,085	3,301	3,824	3,983	2,480	2,636	3,153	3,149
69	U. of Notre Dame	1,729	2,177	3,338	3,932	1,337	1,809	2,824	3,615
70	UT State U.	1,782	2,298	2,272	3,925	1,131	1,223	1,151	2,379
71	SUNY Binghamton	2,482	3,233	4,009	3,890	1,648	2,136	2,279	2,599
72	Columbia U. in the City of NY	3,469	3,098	3,862	3,865	3,268	2,951	3,471	3,756
73	CO State U.	3,004	3,979	3,312	3,784	2,839	2,885	2,765	3,166
74	U. RI	4,408	5,391	5,515	3,662	3,809	4,843	4,543	2,891
75	Wayne State U.	2,749	2,960	3,873	3,533	1,805	1,821	2,459	2,214
76	Northeastern U.	1,579	1,969	2,846	3,514	1,162	1,290	1,496	1,939
77	U. CA, Irvine	3,768	4,649	4,347	3,508	3,115	3,661	3,149	2,122
78	SUNY Stony Brook all campuses	3,464	3,851	3,715	3,472	2,653	2,788	2,548	2,682
79	U. DE	1,364	1,230	2,014	3,328	1,113	954	1,723	2,853
80	GA Institute of Technology all campuses	4,128	4,524	5,008	3,236	1,937	2,202	3,327	1,833
81	Brandeis U.	1,621	1,882	2,591	3,208	1,474	1,506	2,137	2,709
82	U. South FL	10,092	11,416	14,505	3,164	3,817	4,689	7,460	2,327
83	U. Louisville	2,130	2,405	2,736	3,163	1,153	1,867	2,054	2,512
84	Syracuse U. all campuses	1,254	1,978	2,314	3,155	1,250	1,952	2,298	3,135
85	U. CA, Santa Barbara	5,912	7,077	8,177	3,089	4,221	4,797	5,811	2,560
86	U. AL, The	1,917	2,226	2,549	2,821	1,877	2,203	2,440	2,800
87	VA Polytechnic Institute and State U.	2,015	2,461	2,946	2,813	1,210	1,502	2,006	2,014
88	George Mason U.	1,871	2,143	2,747	2,751	1,728	1,967	2,122	1,610
89	Howard U.	1,693	2,553	2,552	2,748	1,693	2,553	2,552	2,748
90	DePaul U.	1,189	2,011	2,295	2,685	861	1,775	2,130	2,570
91	U. UT	2,271	2,347	2,368	2,626	1,618	1,809	1,937	2,257
92	TX A&M U. all campuses	2,898	3,078	2,725	2,621	1,761	2,420	2,022	1,820
93	Brown U.	2,666	3,028	2,266	2,605	1,868	2,216	1,558	1,558
94	FL International U.	574	584	1,005	2,597	310	393	787	1,958
95	Emory U.	1,340	1,663	2,992	2,461	1,027	1,160	2,301	2,163

TABLE 58. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
96	Rush U.	1,284	1,813	2,140	2,452	896	1,369	1,460	1,683
97	CUNY Herbert H. Lehman C.	411	975	2,595	2,330	411	968	2,595	2,327
98	U. Denver	2,904	2,483	2,010	2,296	2,172	2,339	1,947	2,050
99	TX Christian U.	2,397	2,147	2,381	2,289	2,382	2,142	2,368	2,287
100	U. MO-Kansas City	1,114	1,336	1,198	2,230	219	461	728	1,507
	All other sampled institutions	97,023	111,205	121,215	106,433	60,924	69,102	76,736	72,109

e = estimated.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$0 in total R&D expenditures in psychology.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 59. R&D expenditures in the social sciences at universities and colleges, ranked by all FY 2004 social sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				Social sciences, nec
					All social sciences	Economics	Political sciences	Sociology	
	All institutions	1,441,089	1,584,963	1,659,148	1,669,746	316,615	301,938	355,429	695,764
1	U. MI all campuses	75,406	92,279	108,702	92,602	14,713	11,237	12,924	53,728
2	U. MD College Park	61,208	62,573	70,485	79,872	19,126	10,399	3,812	46,535
3	U. CA, Berkeley	44,406	51,204	51,283	49,840	14,932	7,111	7,534	20,263
4	U. WI Madison	35,284	36,982	39,324	41,686	8,023	3,470	11,655	18,538
5	U. GA	34,768	34,689	37,341	39,138	13,996	3,241	2,622	19,279
6	U. PA	31,948	34,590	40,272	38,184	1,982	14,372	8,559	13,271
7	U. CA, Los Angeles	35,135	42,971	41,263	36,461	486	592	6,714	28,669
8	U. WA	10,019	13,231	15,229	34,519	106	8,261	2,636	23,516
9	U. NC Chapel Hill	25,281	43,742	27,095	34,016	61	0	10,870	23,085
10	OH State U. all campuses	30,546	30,963	40,370	32,793	5,219	2,368	1,931	23,275
11	IN U. all campuses	34,401	33,908	35,476	32,037	2,898	10,822	7,639	10,678
12	MI State U.	21,461	23,383	26,198	27,952	10,499	3,727	2,921	10,805
13	Princeton U.	19,003	26,351	28,647	27,524	2,621	20,997	934	2,972
14	U. IL Urbana-Champaign	23,922	24,875	28,027	27,373	9,058	705	6,614	10,996
15	Duke U.	14,794	18,769	21,662	26,865	5,035	14,166	7,360	304
16	PA State U. all campuses	19,577	25,408	26,511	25,994	1,293	6,189	18,512	0
17	Rutgers, The State U. NJ all campuses	27,826	23,288	23,365	25,450	1,184	8,000	3,514	12,752
18	Cornell U. all campuses	14,737	19,497	21,451	22,395	7,102	1,390	2,648	11,255
19	U. MN all campuses	14,792	14,973	18,798	20,208	7,821	2,834	6,604	2,949
20	U. AZ	16,149	17,987	20,374	18,212	5,699	245	8,796	3,472
21	U. TX Austin	13,898	11,470	20,251	18,156	616	134	5,834	11,572
22	Harvard U.	31,132	26,738	22,398	17,914	3,562	11,695	303	2,354
23	U. CA, Davis	13,247	16,578	16,736	17,683	4,650	2,595	1,034	9,404
24	IA State U.	14,125	12,834	14,618	17,597	3,627	394	13,504	72
25	Purdue U. all campuses	18,864	20,095	14,781	16,783	8,059	347	4,553	3,824
26	FL State U.	18,967	22,103	18,050	15,029	585	4,780	4,384	5,280
27	U. MO-Columbia	14,072	12,254	14,185	14,648	8,243	36	1,086	5,283
28	U. IL Chicago	10,977	13,319	15,390	14,592	349	68	4,213	9,962
29	U. NE all campuses	11,225	13,134	15,189	14,008	4,601	1,377	3,656	4,374
30	Naval Postgraduate School	6,486 i	7,404 i	12,990	13,971 i	7 i	13,964 i	0 i	0 i
31	FL International U.	8,351	8,926	8,568	13,846	0	908	1,577	11,361
32	SUNY Albany	8,532	10,832	11,554	13,158	60	4,807	5,140	3,151
33	U. CA, San Diego	10,705	10,532	12,929	12,825	1,204	2,946	5,455	3,220
34	Brandeis U.	21,376	16,733	15,617	12,757	21	161	10,716	1,859
35	U. NM all campuses	6,180	7,177	11,720	12,512	321	390	977	10,824
36	U. CA, Santa Barbara	10,531	12,285	11,918	11,807	37	65	272	11,433
37	Carnegie Mellon U.	8,827	9,569	10,037	11,799	3,516	3,660	1,163	3,460
38	George Washington U.	6,523	7,587	6,907	11,472	360	6,366	4,159	587
39	U. Southern CA	7,666	9,249	8,882	11,347	462	3,024	3,792	4,069
40	WA State U.	10,535	11,274	12,660	11,317	5,950	990	2,746	1,631
41	Clemson U.	8,718	7,001	10,302	11,158	2,510	2,530	1,081	5,037
42	GA Institute of Technology all campuses	5,512	3,765	10,219	11,010	7,448	1,168	1,167	1,227
43	U. TN all campuses	5,834	7,048	8,527	11,006	7,997	1	2,365	643
44	Stanford U.	8,888	10,287	11,793	10,895	1,671	10	452	8,762
45	AZ State U. main campus	10,114	10,083	10,468	10,878	2,157	1,237	471	7,013
46	Georgetown U.	2,877	3,263	2,399	10,649	79	10,333	7	230
47	U. FL	11,971	13,726	10,701	10,482	6,892	92	710	2,788
48	GA State U.	10,186	10,319	11,587	10,447	6,836	338	1,460	1,813
49	Columbia U. in the City of NY	5,709	7,158	9,473	10,196	639	538	9,019	0

TABLE 59. R&D expenditures in the social sciences at universities and colleges, ranked by all FY 2004 social sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				Social sciences, nec
					All social sciences	Economics	Political sciences	Sociology	
50	LA State U. all campuses	7,443	9,461	10,375	10,171	4,211	367	1,511	4,082
51	U. CO all campuses	9,274	12,032	11,195	9,923	324	754	4,612	4,233
52	Northwestern U.	9,523	12,473	10,602	9,450	986	6,209	939	1,316
53	ND State U. all campuses	5,549	7,538	8,342	9,436	2,464	86	733	6,153
54	George Mason U.	7,977	8,354	8,193	9,402	2,246	5,397	509	1,250
55	U. KS all campuses	5,726	6,901	9,135	9,314	460	1,855	5,365	1,634
56	U. CA, Irvine	8,539	9,472	9,826	9,303	293	4,645	1,422	2,943
57	U. Memphis, The	5,551	6,370	7,043	9,193	3,959	596	2,402	2,236
58	NY U.	7,022	8,029	7,988	9,118	1,042	6,999	669	408
59	U. CA, Riverside	5,850	9,886	10,099	8,661	83	22	607	7,949
60	U. MA Boston	7,085	8,030	7,860	8,630	13	8	405	8,204
61	U. OK all campuses	10,020	13,335	15,728	8,549	473	1,964	2,602	3,510
62	TX A&M U. all campuses	7,543	7,510	5,384	7,937	3,205	1,195	881	2,656
63	Syracuse U. all campuses	5,509	4,212	3,060	7,908	8	6,937	129	834
64	U. KY all campuses	3,556	4,867	9,201	7,889	3,017	1,387	597	2,888
65	U. Central FL	5,902	6,006	9,226	7,759	312	183	484	6,780
66	U. SC all campuses	12,537	9,757	7,899	7,715	1,056	2,981	836	2,842
67	Portland State U.	8,600	7,784	7,689	7,689 e	299 e	652 e	284 e	6,454 e
68	OK State U. all campuses	8,630	11,652	8,559	7,519	4,283	163	636	2,437
69	U. HI Manoa	4,763	3,514	5,876	7,407	24	13	205	7,165
70	U. WI Milwaukee	5,468	6,960	7,622	7,284	433	50	683	6,118
71	NC State U.	8,968	8,604	8,508	7,265	3,200	383	1,990	1,692
72	Brown U.	4,912	6,223	6,300	7,156	2,294 i	743 i	981 i	3,138 i
73	TX Tech U.	2,891	5,738	7,240	7,057	2,027	1,681	1,681	1,668
74	U. CT all campuses	8,382	9,219	8,002	6,864	1,385	2,754	1,776	949
75	MS State U.	4,950	4,653	5,050	6,580	327	352	561	5,340
76	VA Polytechnic Institute and State U.	10,098	9,157	6,399	6,501	1,274	2,058	482	2,687
77	Wayne State U.	5,375	6,684	6,079	6,425	1,224	378	4,823	0
78	Cleveland State U.	5,923	5,212	5,583	6,387	0	57	73	6,257
79	U. DE	4,831	5,423	5,566	6,313	990	2	4,490	831
80	MA Institute of Technology	6,152	5,793	6,131	6,195	2,489	1,921	672	1,113
81	Tufts U.	6,291	8,049	4,599	5,956	230	4,735	0	991
82	U. NV, Las Vegas	2,176	1,829 i	5,076	5,939 i	4,458 i	0 i	818 i	663 i
83	Boston C.	4,266	4,873	5,610	5,610 e	2,451 e	121 e	548 e	2,490 e
84	Yale U.	1,894	4,389	6,621	5,496	1,138	85	87	4,186
85	U. Akron all campuses	5,389	7,098	5,236	5,342	1	493	4,759	89
86	Vanderbilt U.	6,322	6,704	5,507	5,330	265	4,749	69	247
87	U. IA	7,235	6,778	5,364	5,240	77	2,017	704	2,442
88	U. MT, The	4,242	4,685	5,080	5,108	3,550	0	0	1,558
89	San Diego State U.	5,142	5,655	5,883	5,004	378	627	505	3,494
90	U. Pittsburgh all campuses	10,570	13,915	5,928	4,986	234	387	711	3,654
91	U. ME	2,785	3,746	3,876	4,772	1,369	12	2,339	1,052
92	SUNY Buffalo all campuses	5,041	4,098	3,572	4,566	254	137	198	3,977
93	U. of Notre Dame	1,226	2,235	3,271	4,531	90	1,245	3,196	0
94	Southern IL U. Edwardsville	418	4,076	3,506	4,478	9	0	167	4,302
95	U. NH	5,733	4,541	5,984	4,299	596	155	2,697	851

TABLE 59. R&D expenditures in the social sciences at universities and colleges, ranked by all FY 2004 social sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				Social sciences, nec
					All social sciences	Economics	Political sciences	Sociology	
96	U. MD Baltimore County	2,043	2,035	3,082	4,290	0	122	959	3,209
97	U. OR	2,023	2,838	3,458	4,192	630	45	310	3,207
98	SUNY Stony Brook all campuses	3,569	3,480	3,000	4,150	324	502	528	2,796
99	Washington U. St. Louis	4,784	5,863	4,674	4,049	2	426	3,491	130
100	SUNY Binghamton	2,822	3,447	3,718	3,990	136	692	2,879	283
	All other sampled institutions	229,878	239,374	237,621	212,355	41,709	27,516	60,329	82,801

e = estimated.

i = imputed.

nec = not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 60. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by all FY 2004 social sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				Social sciences, nec
					All social sciences	Economics	Political sciences	Sociology	
	All institutions	546,317	616,828	665,054	695,436	108,994	109,700	181,784	294,958
1	U. MI all campuses	53,209	62,450	69,293	49,887	12,163	7,764	7,255	22,705
2	U. MD College Park	33,164	32,218	28,506	32,131	3,888	3,322	1,965	22,956
3	U. WA	1,593	3,609	6,167	24,775	58	2,499	2,063	20,155
4	U. NC Chapel Hill	18,069	29,399	18,903	24,061	5	0	8,506	15,550
5	OH State U. all campuses	14,489	11,543	15,074	23,454	2,397	1,611	1,315	18,131
6	U. WI Madison	15,094	17,179	19,565	19,753	4,306	417	6,303	8,727
7	Duke U.	11,045	13,611	15,005	19,525	2,958	9,896	6,523	148
8	U. PA	8,997	11,846	14,132	17,765	1,225	3,995	5,046	7,499
9	Naval Postgraduate School	6,288 i	7,149 i	12,565	13,901 i	7 i	13,894 i	0 i	0 i
10	MI State U.	9,979	10,042	11,597	12,096	5,758	415	1,317	4,606
11	IA State U.	7,415	7,060	7,961	10,522	567	13	9,942	0
12	FL International U.	4,515	6,004	6,709	10,440	0	685	1,189	8,566
13	U. TX Austin	6,710	6,103	11,751	10,070	413	12	4,429	5,216
14	PA State U. all campuses	6,220	9,289	9,778	9,852	587	2,467	6,798	0
15	Carnegie Mellon U.	6,779	5,473	7,986	9,376	2,573	2,353	1,154	3,296
16	U. AZ	7,509	8,218	10,010	9,161	2,677	130	5,383	971
17	U. NM all campuses	1,942	2,699	6,087	8,451	280	23	595	7,553
18	Harvard U.	13,050	11,613	10,574	8,076	3,143	4,389	40	504
19	U. MN all campuses	3,031	3,894	7,925	7,956	1,755	1,077	4,834	290
20	U. CO all campuses	7,140	9,832	9,134	7,919	257	439	3,635	3,588
21	U. CA, Los Angeles	4,451	5,679	7,766	7,426	0	180	1,722	5,524
22	Cornell U. all campuses	3,894	6,185	6,842	7,247	2,443	145	866	3,793
23	Syracuse U. all campuses	3,418	2,396	1,658	7,012	0	6,131	53	828
24	FL State U.	6,645	8,294	6,387	6,833	186	1,922	2,201	2,524
25	U. CA, Berkeley	5,706	4,999	6,586	6,724	3,264	0	1,043	2,417
26	U. IL Chicago	2,694	5,105	6,811	6,697	75	20	3,166	3,436
27	ND State U. all campuses	3,361	4,878	5,582	6,627	1,744	70	511	4,302
28	George Mason U.	4,598	4,486	5,517	6,571	451	4,692	194	1,234
29	Brandeis U.	5,942	6,273	6,631	6,264	18	41	5,875	330
30	U. IL Urbana-Champaign	4,127	4,344	4,096	6,155	2,442	65	494	3,154
31	Columbia U. in the City of NY	4,312	5,283	6,495	6,015	235	3	5,777	0
32	IN U. all campuses	5,838	6,643	7,303	5,966	228	1,727	3,388	623
33	Princeton U.	2,738	4,273	4,780	5,755	467	5,246	17	25
34	U. HI Manoa	3,074	1,844	4,068	5,483	18	0	76	5,389
35	U. MO-Columbia	4,324	4,002	4,382	5,214	4,256	0	349	609
36	U. CA, Santa Barbara	5,518	5,752	4,977	5,169	0	0	15	5,154
37	Purdue U. all campuses	3,439	3,403	4,357	5,103	1,995	109	2,541	458
38	Portland State U.	5,759	5,265	5,014	5,014 e	188 e	233 e	176 e	4,417 e
39	Clemson U.	2,926	2,022	4,760	4,975	517	1,362	121	2,975
40	SUNY Albany	4,254	4,151	4,661	4,886	45	286	2,076	2,479
41	NY U.	3,610	5,015	4,108	4,567	902	2,808	554	303
42	U. KS all campuses	1,877	2,979	4,197	4,565	99	559	2,877	1,030
43	George Washington U.	2,383	2,931	3,162	4,564	316	639	3,466	143
44	U. CA, San Diego	3,762	3,710	4,281	4,441	276	1,132	2,892	141
45	U. Southern CA	2,996	2,983	3,133	4,397	75	1,071	2,663	588
46	U. WI Milwaukee	2,676	3,639	4,413	4,390	3	30	543	3,814
47	U. NE all campuses	2,310	3,260	4,553	4,335	167	254	2,511	1,403
48	Stanford U.	2,493	3,120	3,422	4,217	675	0	391	3,151
49	U. GA	2,664	2,429	3,691	4,093	1,126	79	51	2,837

TABLE 60. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by all FY 2004 social sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				Social sciences, nec
					All social sciences	Economics	Political sciences	Sociology	
50	U. SC all campuses	4,020	3,410	3,644	4,068	538	1,102	371	2,057
51	U. CA, Riverside	1,502	2,375	3,341	3,961	23	0	422	3,516
52	U. Pittsburgh all campuses	5,402	5,960	4,878	3,939	200	301	390	3,048
53	Rutgers, The State U. NJ all campuses	4,241	2,643	2,857	3,916	168	204	134	3,410
54	Vanderbilt U.	4,468	4,900	4,325	3,834	245	3,465	19	105
55	U. DE	3,494	3,768	4,045	3,675	92	0	3,423	160
56	U. CA, Irvine	2,780	3,170	3,501	3,467	110	2,163	302	892
57	U. CT all campuses	2,092	3,885	3,556	3,447	630	1,100	1,031	686
58	U. MT, The	2,742	2,529	2,658	3,432	2,299	0	0	1,133
59	GA State U.	1,759	2,506	3,870	3,426	1,726	61	430	1,209
60	Washington U. St. Louis	3,498	4,484	3,782	3,348	0	311	2,968	69
61	AZ State U. main campus	1,814	2,035	2,685	3,265	133	136	375	2,621
62	U. Chicago	2,913	2,235	2,319	3,256	510	925	631	1,190
63	WA State U.	2,425	2,924	2,843	3,018	1,415	608	790	205
64	Northwestern U.	3,402	4,270	3,326	3,005	304	2,281	290	130
65	Boston C.	2,729	3,128	2,976	2,976 e	1,747 e	6 e	21 e	1,202 e
66	U. NV, Las Vegas	370	527 i	3,401	2,930 i	2,663 i	0 i	267 i	0 i
67	U. Memphis, The	2,708	3,583	2,806	2,921	1,595	3	1,135	188
68	CA State U. Fullerton	258 i	317 i	224 i	2,830	0	0	0	2,830
69	GA Institute of Technology all campuses	2,587	1,833	3,531	2,812	2,035	327	327	123
70	U. NH	2,615	2,696	3,273	2,802	232	131	2,190	249
71	U. OR	1,256	1,744	2,021	2,757	521	9	105	2,122
72	Tulane U.	3,345	3,689	4,703	2,740	0	0	35	2,705
73	MS State U.	2,431	2,248	1,863	2,614	0	0	76	2,538
74	U. ME	685	1,232	1,071	2,460	257	0	1,689	514
75	U. OK all campuses	2,592	3,554	5,807	2,412	0	0	2,057	355
76	U. Miami	2,499	2,426	1,163	2,337	98	0	1,299	940
77	OK State U. all campuses	2,281	5,389	3,295	2,324	405	118	73	1,728
78	NC State U.	2,352	2,093	2,390	2,244	561	195	598	890
79	U. CA, Davis	2,539	4,086	3,138	2,191	540	169	535	947
80	Johns Hopkins U., The ^a	6,613	6,905	2,679	2,151	552 i	4 i	1,171 i	424 i
81	TX A&M U. all campuses	1,320	1,529	1,622	2,100	79	744	697	580
82	U. KY all campuses	1,134	2,073	3,210	2,091	783	190	359	759
83	SD State U.	343	978	949	2,078	260	0	1,303	515
84	NM State U. all campuses	1,018	1,023	1,710	1,969	26	139	950	854
85	CO State U.	1,736	2,798	5,817	1,941	767	213	508	453
86	U. MA Boston	974	2,898	2,131	1,919	0	0	37	1,882
87	SUNY Binghamton	1,115	1,300	1,589	1,909	71	291	1,469	78
88	MA Institute of Technology	1,840	1,420	1,620	1,898	459	715	378	346
89	U. MA Lowell	529	965	2,308	1,864	18	0	0	1,846
90	U. of the VI	0 i	0 i	0 i	1,811	0	0	0	1,811
91	U. FL	1,806	3,460	1,947	1,745	865	53	413	414
92	LA State U. all campuses	1,314	1,941	2,064	1,706	529	64	538	575
93	MT State U. Bozeman	982	1,472	1,378	1,678	1,538	10	3	127
94	CA Institute of Technology	726	982	1,733	1,662	0	0	1,662	0
95	U. AL, The	1,136	1,607	1,207	1,626	0	1,063	71	492

TABLE 60. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by all FY 2004 social sciences for the first 100 institutions: FY 2001–04 and by subfield for FY 2004

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004				Social sciences, nec
					All social sciences	Economics	Political sciences	Sociology	
96	SUNY Stony Brook all campuses	866	1,106	878	1,594	223	332	171	868
97	VA Polytechnic Institute and State U.	1,175	2,426	1,579	1,580	423	200	141	816
98	U. DC	737	1,649	1,334	1,540	0	0	1,540	0
99	U. Houston	294	938	5,691	1,537	197	0	1,340	0
100	Tuskegee U.	1,356	1,329	1,431	1,536	171	0	0	1,365
	All other sampled institutions	93,477	93,816	86,530	75,218	15,758	7,862	22,149	29,449

e = estimated.

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$58 thousand in federally financed R&D expenditures in the social sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 61. Total and federally financed R&D expenditures in engineering at universities and colleges, ranked by FY 2004 total for the first 100 institutions:
FY 2001-04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	5,019,003	5,521,475	5,992,776	6,312,027	2,851,058	3,229,883	3,609,492	3,902,331
1	Johns Hopkins U., The ^a	284,936	349,481	386,412	417,139	278,116	342,355	377,516	410,730
2	GA Institute of Technology all campuses	201,581	228,484	232,971	275,551	94,589	111,226	134,150	159,978
3	PA State U. all campuses	183,823	193,590	183,570	209,900	110,576	121,950	110,675	137,769
4	MA Institute of Technology	148,795	171,606	195,704	200,773	102,226	117,369	134,015	144,287
5	U. MI all campuses	143,487	159,890	169,041	163,062	91,611	102,897	115,309	115,461
6	TX A&M U. all campuses	124,227	142,887	150,239	155,464	31,514	36,311	39,809	45,221
7	U. CA, Berkeley	128,984	137,766	152,033	151,395	54,554	55,003	64,345	70,876
8	Stanford U.	111,194	126,204	140,152	147,216	92,036	104,501	117,498	118,487
9	Purdue U. all campuses	78,561	91,370	100,174	124,849	30,109	29,770	41,770	43,453
10	U. IL Urbana-Champaign	104,108	104,577	114,986	120,032	60,525	61,868	66,381	69,698
11	U. TX Austin	110,119	118,167	120,983	119,301	72,061	79,322	80,074	77,183
12	OH State U. all campuses	96,297	102,029	108,164	110,958	25,802	27,430	31,749	48,279
13	VA Polytechnic Institute and State U.	80,349	86,257	96,512	101,767	32,817	34,702	39,298	39,074
14	U. WI Madison	82,652	89,683	95,530	94,860	50,565	58,900	60,860	61,122
15	U. MD College Park	75,574	75,160	82,446	82,766	39,841	45,416	47,813	49,146
16	NC State U.	81,949	76,609	84,442	80,231	32,403	30,210	29,288	34,368
17	UT State U.	59,162	55,524	70,127	77,996	48,154	50,264	65,374	73,611
18	U. CA, San Diego	50,301	61,208	66,090	71,132	24,190	30,383	32,582	39,227
19	U. WA	49,629	58,244	57,063	70,034	30,547	41,652	44,116	59,124
20	Cornell U. all campuses	53,444	56,309	63,287	69,046	29,776	33,943	39,147	41,448
21	U. FL	54,559	63,205	68,343	67,195	25,624	31,209	38,424	43,388
22	Clemson U.	50,307	52,744	64,521	63,864	23,994	24,531	35,798	32,098
23	U. Dayton	38,997	44,387	51,728	62,763	32,310	38,490	46,659	56,043
24	U. Rochester	49,396	56,192	58,589	60,464	41,036	47,238	48,369	51,870
25	U. CA, Santa Barbara	35,393	44,475	56,144	58,810	23,566	24,933	32,116	36,130
26	U. CA, Los Angeles	46,854	51,371	59,498	58,147	28,438	32,827	40,324	39,648
27	SUNY Albany	0	10,149	23,609	56,484	0	0	257	1,133
28	Carnegie Mellon U.	40,635	47,609	54,187	55,992	25,672	26,301	44,628	46,239
29	AZ State U. main campus	42,485	47,861	51,532	55,648	18,454	21,707	23,750	25,921
30	Northwestern U.	47,799	47,655	54,427	55,297	28,746	33,972	36,610	39,490
31	MS State U.	44,736	54,882	59,993	55,133	30,887	39,986	41,932	26,384
32	U. Southern CA	49,865	49,750	51,215	54,854	37,144	37,253	40,469	38,444
33	U. AZ	52,486	47,738	50,622	53,542	31,493	26,066	27,725	31,230
34	U. MN all campuses	41,659	47,353	50,175	52,307	25,585	28,807	27,299	29,102
35	Princeton U.	46,947	48,947	52,419	52,126	23,363	30,525	31,748	32,973
36	NM State U. all campuses	50,500	61,590	65,616	50,582	39,664	45,636	49,091	48,757
37	U. CA, Davis	41,928	42,674	44,857	50,454	14,571	16,988	18,796	20,784
38	IA State U.	44,099	45,727	45,805	48,298	16,995	19,022	22,392	24,710
39	U. KY all campuses	29,767	39,297	39,815	43,706	13,318	15,662	16,604	17,861
40	LA State U. all campuses	44,813	42,796	44,255	43,376	19,823	15,146	16,140	12,723
41	NJ Institute of Technology	42,407	45,873	45,197	42,288	16,774	19,639	20,459	18,685
42	Rensselaer Polytechnic Institute	34,069	34,241	37,819	41,931	18,391	18,944	22,842	25,602
43	U. TN all campuses	36,580	34,785	39,326	41,228	14,608	13,752	15,458	17,489
44	Case Western Reserve U.	22,050	24,133	30,987	40,268	16,639	18,266	23,547	25,953
45	CA Institute of Technology	46,377	43,931	40,064	39,480	41,810	40,636	37,024	36,936
46	U. DE	25,360	31,312	34,351	36,213	13,213	18,344	27,020	27,706
47	U. CO all campuses	33,021	32,911	31,196	35,329	24,704	25,869	24,476	28,482
48	Drexel U.	22,767	37,966	32,560	34,660	16,665	25,493	22,433	23,693
49	SUNY Buffalo all campuses	29,725	37,954	33,269	34,394	17,080	24,418	19,072	21,143
50	U. VA all campuses	25,838	28,866	31,799	34,347	19,932	22,125	23,980	24,822

TABLE 61. Total and federally financed R&D expenditures in engineering at universities and colleges, ranked by FY 2004 total for the first 100 institutions:
FY 2001-04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
51	Rutgers, The State U. NJ all campuses	33,575	35,000	33,135	33,838	12,271	14,113	13,977	15,125
52	U. IA	24,772	27,516	29,236	32,742	9,489	10,927	11,342	13,595
53	Vanderbilt U.	15,103	17,861	23,911	30,986	11,750	14,125	19,814	26,132
54	Auburn U. all campuses	31,568	32,315	30,471	30,387	15,112	16,464	17,040	16,544
55	U. South FL	19,063	19,132	21,551	29,892	6,494	8,110	10,757	15,891
56	FL State U.	11,889	15,500	25,943	28,942	7,099	11,082	21,098	23,049
57	U. CA, Irvine	18,035	22,888	24,509	28,764	7,433	8,227	10,703	13,277
58	WV U.	17,269	22,563	28,006	28,632	7,567	17,298	19,572	18,799
59	Duke U.	16,530	19,253	25,210	28,131	12,075	13,893	18,150	21,202
60	U. MO-Rolla	21,610	25,806	28,514	28,122	8,963	12,830	14,343	13,694
61	U. NE all campuses	26,422	27,931	27,703	28,109	6,963	6,952	7,473	8,217
62	U. UT	25,565	26,349	30,140	28,061	15,283	14,514	17,364	14,945
63	U. Cincinnati all campuses	26,114	26,701	28,443	26,815	12,244	12,886	13,553	13,457
64	U. PA	14,247	18,291	22,058	25,949	10,666	14,712	14,609	17,408
65	U. SC all campuses	25,573	28,314	26,171	25,786	15,061	15,098	16,157	16,066
66	Columbia U. in the City of NY	16,702	19,666	23,705	25,160	13,852	15,685	18,098	20,732
67	MI State U.	20,845	23,870	24,177	24,928	6,970	7,866	7,982	8,908
68	SUNY Stony Brook all campuses	15,110	19,123	25,139	24,882	7,084	9,177	10,393	10,431
69	WA State U.	15,366	20,928	30,276	24,556	8,622	11,445	13,114	13,445
70	Wichita State U.	12,298	13,932	16,591	23,450	3,522	3,868	7,107	7,925
71	Boston U.	18,219	20,875	21,188	23,212	16,275	19,165	19,796	21,292
72	U. MA Amherst	18,811	21,224	19,248	23,045	6,605	7,766	7,321	8,553
73	U. NM all campuses	24,737	26,013	23,275	22,980	20,384	19,546	18,247	18,528
74	Old Dominion U.	13,122	15,547	18,288	22,681	9,440	9,884	12,409	14,270
75	MI Technological U.	19,688	19,625	18,048	22,512	11,300	11,640	11,210	11,722
76	U. ND all campuses	9,831	17,290	20,396	22,444	7,616	12,547	12,399	15,191
77	Dartmouth C.	14,137	18,326	21,597	22,193	10,294	13,636	16,246	16,692
78	CO State U.	28,708	37,060	18,653	21,824	19,973	23,217	10,193	12,879
79	U. AL Huntsville, The	16,671	20,999	21,004	21,335	13,049	15,157	16,145	17,703
80	U. CT all campuses	28,225	16,177	18,926	21,216	5,640	7,439	10,591	12,726
81	Lehigh U.	23,902	17,726	20,332	21,109	9,968	9,223	9,786	12,145
82	U. NH	19,101	17,062	17,763	20,920	7,377	7,667	8,517	12,768
83	U. MO-Columbia	22,637	19,736	21,713	20,880	8,446	7,127	8,005	6,607
84	U.S. Air Force Academy	2,719	17,901	19,239	20,634	2,625	5,623	8,593	10,326
85	U. Central FL	25,575	9,972	24,572	20,256	3,799	5,194	9,619	9,809
86	OK State U. all campuses	18,589	18,295	20,507	20,197	7,051	7,681	10,104	11,139
87	OR State U.	17,005	20,797	23,596	19,869	10,654	13,871	16,160	13,788
88	Brown U.	14,337	14,836	20,946	19,384	9,239	8,957	13,827	12,958
89	U. Houston	19,320	22,111	24,229	18,974	5,316	8,688	6,968	6,771
90	U. IL Chicago	20,646	15,679	17,006	18,161	10,384	6,043	7,841	9,326
91	CO School of Mines	16,288	17,672	18,611	18,040	6,169	6,092	7,441	8,778
92	NM Institute of Mining and Technology	15,846	16,674	17,309	18,023	7,839	7,286	7,864	6,435
93	OH U. all campuses	11,876	18,248	16,991	17,926	6,219	9,435	10,803	10,504
94	U. Pittsburgh all campuses	15,614	17,438	15,469	17,850	7,823	9,572	10,476	13,209
95	KS State U.	15,099	16,488	17,903	17,826	5,500	6,708	8,563	8,129

TABLE 61. Total and federally financed R&D expenditures in engineering at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
96	Woods Hole Oceanographic Institution	19,180	22,404	17,930	17,539	15,368	14,697	14,360	16,817
97	U. AL, The	19,965	19,321	17,191	17,320	12,955	14,801	13,506	13,326
98	Rice U.	9,972	11,401	11,779	17,287	7,007	8,522	8,834	13,053
99	U. CA, Santa Cruz	2,259	3,555	4,983	16,877	1,457	2,090	2,848	13,278
100	George Washington U.	11,172	13,763	18,308	16,830	8,371	10,790	15,073	15,201
	All other sampled institutions	677,505	730,902	827,043	831,899	345,884	381,290	445,890	475,585

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$376 million in total R&D expenditures in engineering.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 62. R&D expenditures in engineering subfields at universities and colleges, ranked by all R&D expenditures in subfields for the first 100 institutions: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Aeronautical/ astronautical engineering	Bioengineering/ biomedical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgical/ materials engineering	Engineering, nec
	All institutions	6,312,027	439,923	369,848	493,353	789,257	1,437,535	867,475	564,968	1,349,668
1	Johns Hopkins U., The ^a	417,139	39,821 i	18,656 i	9,834 i	11,405 i	121,686 i	82,551 i	913 i	132,273 i
2	GA Institute of Technology all campuses	275,551	35,655	19,523	13,107	12,138	113,362	33,901	16,785	31,080
3	PA State U. all campuses	209,900	8,807	2,930	14,057	17,763	47,426	39,944	78,092	881
4	MA Institute of Technology	200,773	19,884	30,135	15,074	12,607	31,090	26,738	15,942	49,303
5	U. MI all campuses	163,062	6,846	10,228	7,706	10,378	46,452	36,970	6,849	37,633
6	TX A&M U. all campuses	155,464	13,351	2,099	16,554	47,968	7,737	17,523	5,067	45,165
7	U. CA, Berkeley	151,395	0	453	6,592	41,338	72,174	76	108	30,654
8	Stanford U.	147,216	8,076	685	8,218	9,579	25,756	22,262	3,066	69,574
9	Purdue U. all campuses	124,849	6,276	9,469	22,360	19,455	32,841	18,341	2,739	13,368
10	U. IL Urbana-Champaign	120,032	5,098	17	6,674	24,265	41,618	14,330	15,317	12,713
11	U. TX Austin	119,301	10,340	5,625	10,204	19,430	29,038	12,896	17,341	14,427
12	OH State U. all campuses	110,958	1,171	1,024	6,761	7,372	15,925	11,409	23,478	43,818
13	VA Polytechnic Institute and State U.	101,767	5,739	426	4,009	23,681	27,204	18,562	8,044	14,102
14	U. WI Madison	94,860	0	2,848	7,735	6,034	11,591	5,574	3,385	57,693
15	U. MD College Park	82,766	12,147	0	1,327	7,627	15,689	13,776	4,692	27,508
16	NC State U.	80,231	5,691	5,614	13,311	8,935	13,552	4,218	7,995	20,915
17	UT State U.	77,996	54,872	0	0	879	2,266	16,669	0	3,310
18	U. CA, San Diego	71,132	0	12,274	0	0	36,037	6,726	689	15,406
19	U. WA	70,034	3,782	13,005	4,523	8,694	23,684	4,490	2,881	8,975
20	Cornell U. all campuses	69,046	6,129	0	4,107	8,098	15,287	1,995	4,264	29,166
21	U. FL	67,195	13,932	634	3,461	15,171	10,313	0	11,100	12,584
22	Clemson U.	63,864	0	6,146	11,195	9,066	9,497	8,808	9,507	9,645
23	U. Dayton	62,763	5,160	36	2,586	537	824	10,975	37,179	5,466
24	U. Rochester	60,464	0	953	758	0	2,856	48,252	0	7,645
25	U. CA, Santa Barbara	58,810	0	0	6,069	0	28,407	2,673	20,432	1,229
26	U. CA, Los Angeles	58,147	1,621	3,854	3,776	3,437	22,091	18,024	5,344	0
27	SUNY Albany	56,484	0	0	0	0	0	0	0	56,484
28	Carnegie Mellon U.	55,992	0	5,091	4,546	2,862	20,390	4,615	5,446	13,042
29	AZ State U. main campus	55,648	15	8,678	7,554	11,999	14,969	7,774	0	4,659
30	Northwestern U.	55,297	0	7,001	4,953	4,344	5,443	5,143	13,819	14,594
31	MS State U.	55,133	9,052	153	5,350	3,734	19,741	12,269	715	4,119
32	U. Southern CA	54,854	4,882	11,639	1,636	4,407	27,604	707	2,036	1,943
33	U. AZ	53,542	2,898	2,321	5,235	9,412	15,978	13,813	597	3,288
34	U. MN all campuses	52,307	3,844	2,063	9,012	14,792	7,693	8,846	11	6,046
35	Princeton U.	52,126	8,351	0	9,543	3,761	22,642	0	7,575	254
36	NM State U. all campuses	50,582	1,932	0	729	3,989	5,250	753	4,754	33,175
37	U. CA, Davis	50,454	0	9,735	7,259	12,846	7,311	8,066	0	5,237

TABLE 62. R&D expenditures in engineering subfields at universities and colleges, ranked by all R&D expenditures in subfields for the first 100 institutions: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Aeronautical/ astronautical engineering	Bioengineering/ biomedical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgical/ materials engineering	Engineering, nec
38	IA State U.	48,298	7,230	0	2,341	10,638	6,200	3,848	3,105	14,936
39	U. KY all campuses	43,706	0	1,763	1,578	8,945	3,157	2,824	3,967	21,472
40	LA State U. all campuses	43,376	0	0	6,236	9,602	2,010	4,645	8,963	11,920
41	NJ Institute of Technology	42,288	0	2,370	3,063	7,764	5,877	3,090	0	20,124
42	Rensselaer Polytechnic Institute	41,931	0	940	3,327	8,206	4,526	6,880	7,058	10,994
43	U. TN all campuses	41,228	5,347	940	895	11,113	6,024	0	5,775	11,134
44	Case Western Reserve U.	40,268	0	11,373	1,724	436	4,485	2,818	4,163	15,269
45	CA Institute of Technology	39,480	3,960	663	6,101	4,811	6,629	3,117	4,543	9,656
46	U. DE	36,213	0	0	7,703	6,967	9,673	4,582	0	7,288
47	U. CO all campuses	35,329	14,386	39	4,952	6,974	5,143	3,696	0	139
48	Drexel U.	34,660	0	5,185	1,427	1,634	17,931	3,229	5,217	37
49	SUNY Buffalo all campuses	34,394	0	2,348	1,815	14,966	2,243	7,413	1,735	3,874
50	U. VA all campuses	34,347	0	3,924	1,883	3,586	8,299	4,130	10,530	1,995
51	Rutgers, The State U. NJ all campuses	33,838	0	1,852	1,692	4,842	10,503	4,829	8,389	1,731
52	U. IA	32,742	0	1,234	2,718	12,992	1,209	6,306	0	8,283
53	Vanderbilt U.	30,986	0	6,839	2,586	2,690	16,460	2,144	0	267
54	Auburn U. all campuses	30,387	893	0	2,857	3,215	3,765	3,380	1,107	15,170
55	U. South FL	29,892	0	0	1,136	13,759	7,923	5,085	0	1,989
56	FL State U.	28,942	0	47	733	2,249	7,164	18,159	381	209
57	U. CA, Irvine	28,764	0	3,353	2,436	6,494	9,698	5,946	0	837
58	WV U.	28,632	8	0	4,977	4,079	7,381	9,037	547	2,603
59	Duke U.	28,131	0	10,872	0	2,377	8,891	3,167	0	2,824
60	U. MO-Rolla	28,122	0	0	321	3,098	4,912	3,525	6,784	9,482
61	U. NE all campuses	28,109	1,567	2,495	4,321	7,650	3,404	2,661	983	5,028
62	U. UT	28,061	0	3,457	5,679	9,066	2,014	2,865	3,852	1,128
63	U. Cincinnati all campuses	26,815	3,943	1,060	1,639	6,518	7,261	3,353	2,792	249
64	U. PA	25,949	0	6,403	3,051	883	2,076	4,748	5,427	3,361
65	U. SC all campuses	25,786	0	0	6,852	1,672	11,973	3,509	0	1,780
66	Columbia U. in the City of NY	25,160	0	4,145	1,818	527	4,199	1,195	1,135	12,141
67	MI State U.	24,928	0	0	7,643	3,161	6,719	5,012	0	2,393
68	SUNY Stony Brook all campuses	24,882	0	10,433	0	0	4,895	2,183	6,288	1,083
69	WA State U.	24,556	0	0	1,419	3,975	5,175	2,397	4,647	6,943
70	Wichita State U.	23,450	20,638	0	0	0	584	154	0	2,074
71	Boston U.	23,212	1,416	13,000	0	0	4,607	1,416	2,746	27
72	U. MA Amherst	23,045	0	0	3,656	6,028	9,171	3,729	0	461
73	U. NM all campuses	22,980	0	0	2,289	2,527	3,707	923	11,216	2,318
74	Old Dominion U.	22,681	5,842	9	0	638	12,350	1,293	0	2,549
75	MI Technological U.	22,512	0	377	1,787	4,568	1,903	7,517	4,461	1,899

TABLE 62. R&D expenditures in engineering subfields at universities and colleges, ranked by all R&D expenditures in subfields for the first 100 institutions: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Aeronautical/ astronautical engineering	Bioengineering/ biomedical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgical/ materials engineering	Engineering, nec
76	U. ND all campuses	22,444	0	0	592	171	164	316	0	21,201
77	Dartmouth C.	22,193	0	0	0	2,021	4,596	3,868	11,708	0
78	CO State U.	21,824	0	0	1,941	8,938	5,273	4,060	0	1,612
79	U. AL Huntsville, The	21,335	0	0	395	1,818	4,542	4,487	0	10,093
80	U. CT all campuses	21,216	0	0	3,357	5,933	4,194	4,717	2,940	75
81	Lehigh U.	21,109	0	0	1,533	7,062	2,938	2,414	5,549	1,613
82	U. NH	20,920	0	0	577	5,611	11,179	1,316	1,845	392
83	U. MO-Columbia	20,880	0	41	2,663	4,212	3,869	2,850	3,704	3,541
84	U.S. Air Force Academy	20,634	18,189	0	0	175	252	2,018	0	0
85	U. Central FL	20,256	1,482	3,756	0	4,128	6,136	1,754	1,362	1,638
86	OK State U. all campuses	20,197	436	0	1,359	1,888	3,346	3,071	0	10,097
87	OR State U.	19,869	0	4,923	640	4,132	3,130	1,698	1,181	4,165
88	Brown U.	19,384	1,372 i	0 i	1,402 i	1,485 i	4,680 i	4,390 i	0 i	6,055 i
89	U. Houston	18,974	1,652	0	5,166	660	2,847	1,758	6,098	793
90	U. IL Chicago	18,161	0	5,359	853	2,716	4,431	3,959	0	843
91	CO School of Mines	18,040	0	0	4,244	0	0	0	10,334	3,462
92	NM Institute of Mining and Technology	18,023	0	0	6,194	0	839	55	1,461	9,474
93	OH U. all campuses	17,926	7,665	0	4,911	2,269	1,078	1,088	0	915
94	U. Pittsburgh all campuses	17,850	0	4,326	4,772	710	2,103	1,747	2,930	1,262
95	KS State U.	17,826	0	0	4,412	2,661	657	1,939	0	8,157
96	Woods Hole Oceanographic Institution	17,539	1,250 i	0 i	1,346 i	1,376 i	4,539 i	3,474 i	0 i	5,554 i
97	U. AL, The	17,320	4,447	0	2,323	2,567	1,314	1,209	2,976	2,484
98	Rice U.	17,287	0	4,378	1,082	1,032	9,047	1,748	0	0
99	U. CA, Santa Cruz	16,877	0	0	0	0	3,544	0	0	13,333
100	George Washington U.	16,830	5,077	0	0	3,219	2,844	905	0	4,785
	All other sampled institutions	831,899	37,751	58,629	85,121	127,820	158,428	118,160	60,907	185,083

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$376 million in total R&D expenditures in engineering.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 63. Federally financed R&D expenditures in engineering subfields at universities and colleges, ranked by all R&D expenditures in subfields for the first 100 institutions: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Aeronautical/astronautical engineering	Bioengineering/biomedical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgical/materials engineering	Engineering, nec
	All institutions	3,902,331	335,815	235,954	267,553	347,335	970,538	582,222	352,238	810,676
1	Johns Hopkins U., The ^a	410,730	39,050 i	16,394 i	9,067 i	10,079 i	121,216 i	81,837 i	913 i	132,174 i
2	GA Institute of Technology all campuses	159,978	25,143	11,127	6,865	4,808	68,624	22,101	11,298	10,012
3	MA Institute of Technology	144,287	17,692	23,816	9,124	8,321	22,408	15,306	9,014	38,606
4	PA State U. all campuses	137,769	6,533	1,586	8,815	8,764	37,423	30,206	44,277	165
5	Stanford U.	118,487	7,014	602	6,310	6,469	20,815	14,670	2,097	60,510
6	U. MI all campuses	115,461	5,832	6,698	5,526	5,416	32,896	27,109	5,421	26,563
7	U. TX Austin	77,183	8,764	3,633	5,174	1,576	24,822	9,633	11,749	11,832
8	UT State U.	73,611	54,731	0	0	244	950	16,094	0	1,592
9	U. CA, Berkeley	70,876	0	64	2,894	7,498	40,344	0	1	20,075
10	U. IL Urbana-Champaign	69,698	3,853	0	3,333	13,468	26,005	7,356	10,208	5,475
11	U. WI Madison	61,122	0	1,632	4,225	4,034	8,081	2,353	2,145	38,652
12	U. WA	59,124	3,472	10,898	4,123	5,806	20,794	3,416	2,166	8,449
13	U. Dayton	56,043	4,156	0	2,468	78	646	9,522	35,067	4,106
14	U. Rochester	51,870	0	437	636	0	2,066	44,231	0	4,500
15	U. MD College Park	49,146	8,284	0	633	4,266	14,197	7,767	4,509	9,490
16	NM State U. all campuses	48,757	1,718	0	642	3,291	4,772	654	4,505	33,175
17	OH State U. all campuses	48,279	683	450	2,719	3,537	10,699	5,989	13,312	10,890
18	Carnegie Mellon U.	46,239	0	4,792	3,977	2,228	14,521	3,984	4,616	12,121
19	TX A&M U. all campuses	45,221	8,751	506	2,490	4,768	2,644	7,420	284	18,358
20	Purdue U. all campuses	43,453	3,729	3,349	2,202	2,499	18,983	5,989	1,219	5,483
21	U. FL	43,388	10,686	319	2,303	6,826	7,291	0	8,825	7,138
22	Cornell U. all campuses	41,448	3,835	0	2,384	2,618	9,414	926	1,823	20,448
23	U. CA, Los Angeles	39,648	1,069	2,850	2,423	1,235	15,482	13,610	2,979	0
24	Northwestern U.	39,490	0	4,067	3,749	2,578	4,355	4,244	10,156	10,341
25	U. CA, San Diego	39,227	0	9,486	0	0	15,181	4,012	0	10,548
26	VA Polytechnic Institute and State U.	39,074	2,831	39	1,290	7,557	11,986	7,434	4,612	3,325
27	U. Southern CA	38,444	4,343	5,921	664	3,112	21,303	238	1,611	1,252
28	CA Institute of Technology	36,936	3,922	602	5,164	4,466	6,490	3,074	4,543	8,675
29	U. CA, Santa Barbara	36,130	0	0	4,059	0	19,433	2,009	9,430	1,199
30	NC State U.	34,368	3,863	960	6,300	2,977	8,222	1,441	4,703	5,902
31	Princeton U.	32,973	5,156	0	5,778	2,798	13,343	0	5,843	55
32	Clemson U.	32,098	0	3,500	6,030	3,584	4,907	4,621	5,122	4,334
33	U. AZ	31,230	2,223	884	2,729	7,276	8,428	7,587	473	1,630
34	U. MN all campuses	29,102	2,540	1,653	4,608	8,779	3,671	4,273	0	3,578
35	U. CO all campuses	28,482	12,811	36	3,762	5,257	3,677	2,858	0	81
36	U. DE	27,706	0	0	5,523	4,961	8,184	3,741	0	5,297
37	MS State U.	26,384	4,483	0	3,929	1,107	10,570	5,379	82	834

TABLE 63. Federally financed R&D expenditures in engineering subfields at universities and colleges, ranked by all R&D expenditures in subfields for the first 100 institutions: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Aeronautical/astronautical engineering	Bioengineering/biomedical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgical/materials engineering	Engineering, nec
38	Vanderbilt U.	26,132	0	4,883	2,185	2,176	14,786	1,835	0	267
39	Case Western Reserve U.	25,953	0	8,318	987	291	3,611	2,424	3,770	6,552
40	AZ State U. main campus	25,921	0	4,261	4,129	4,355	7,073	4,121	0	1,982
41	Rensselaer Polytechnic Institute	25,602	0	821	2,637	4,607	3,462	4,651	4,772	4,652
42	U. VA all campuses	24,822	0	3,157	1,453	2,199	5,931	2,100	8,725	1,257
43	IA State U.	24,710	5,571	0	1,689	3,463	2,671	2,158	2,150	7,008
44	Drexel U.	23,693	0	3,607	764	883	12,633	2,219	3,587	0
45	FL State U.	23,049	0	0	468	1,254	6,370	14,658	243	56
46	Boston U.	21,292	1,322	11,678	0	0	4,390	1,322	2,553	27
47	Duke U.	21,202	0	8,929	0	1,340	6,247	2,511	0	2,175
48	SUNY Buffalo all campuses	21,143	0	1,782	1,047	8,107	1,174	5,830	1,191	2,012
49	U. CA, Davis	20,784	0	3,933	4,573	2,236	4,291	2,149	0	3,602
50	Columbia U. in the City of NY	20,732	0	2,655	659	304	3,707	1,195	1,057	11,155
51	WV U.	18,799	0	0	3,483	3,092	5,137	5,160	441	1,486
52	NJ Institute of Technology	18,685	0	651	1,019	1,968	1,501	847	0	12,699
53	U. NM all campuses	18,528	0	0	1,975	1,915	3,154	652	9,266	1,566
54	U. KY all campuses	17,861	0	791	620	6,841	1,066	1,381	1,412	5,750
55	U. AL Huntsville, The	17,703	0	0	268	1,555	3,261	3,965	0	8,654
56	U. TN all campuses	17,489	2,241	386	640	2,096	3,996	0	3,600	4,530
57	U. PA	17,408	0	4,245	2,169	3	1,284	4,360	2,807	2,540
58	Woods Hole Oceanographic Institution	16,817	1,199 i	0 i	1,305 i	1,321 i	4,397 i	3,260 i	0 i	5,335 i
59	Dartmouth C.	16,692	0	0	0	1,629	3,685	2,882	8,496	0
60	Auburn U. all campuses	16,544	581	0	1,383	1,499	2,206	2,438	606	7,831
61	U. SC all campuses	16,066	0	0	3,795	1,069	9,071	1,826	0	305
62	U. South FL	15,891	0	0	517	4,380	6,401	3,441	0	1,152
63	George Washington U.	15,201	4,966	0	0	2,707	2,536	770	0	4,222
64	U. ND all campuses	15,191	0	0	352	103	109	121	0	14,506
65	Rutgers, The State U. NJ all campuses	15,125	0	234	1,052	457	5,246	3,316	4,065	755
66	Harvard U.	14,949	0	0	0	0	0	0	0	14,949
67	U. UT	14,945	0	2,009	4,063	3,053	830	2,011	2,839	140
68	Old Dominion U.	14,270	4,023	0	0	514	8,056	1,116	0	561
69	OR State U.	13,788	0	3,848	514	2,543	1,842	903	409	3,729
70	U. MO-Rolla	13,694	0	0	133	1,668	2,489	1,417	3,497	4,490
71	U. IA	13,595	0	654	1,449	4,024	779	4,143	0	2,546
72	U. Cincinnati all campuses	13,457	2,164	448	832	4,240	3,062	1,034	1,601	76
73	WA State U.	13,445	0	0	913	2,307	2,845	1,422	3,207	2,751
74	U. AL, The	13,326	3,982	0	1,905	2,012	998	854	1,443	2,132
75	U. CA, Santa Cruz	13,278	0	0	0	0	2,573	0	0	10,705

TABLE 63. Federally financed R&D expenditures in engineering subfields at universities and colleges, ranked by all R&D expenditures in subfields for the first 100 institutions: FY 2004
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Aeronautical/astronautical engineering	Bioengineering/biomedical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgical/materials engineering	Engineering, nec
76	U. CA, Irvine	13,277	0	2,059	1,714	1,778	4,412	3,313	0	1
77	U. Pittsburgh all campuses	13,209	0	3,079	4,044	289	1,237	1,305	2,415	840
78	Rice U.	13,053	0	3,331	626	913	6,804	1,379	0	0
79	Brown U.	12,958	918 i	0 i	995 i	1,023 i	3,403 i	2,511 i	0 i	4,108 i
80	CO State U.	12,879	0	0	1,198	6,329	3,734	800	0	818
81	U. NH	12,768	0	0	322	4,361	5,417	1,126	1,542	0
82	U. CT all campuses	12,726	0	0	1,419	3,164	2,338	3,748	2,057	0
83	LA State U. all campuses	12,723	0	0	2,058	2,625	317	536	1,342	5,845
84	Lehigh U.	12,145	0	0	749	3,400	1,489	1,925	3,452	1,130
85	U. of Notre Dame	11,800	1,832	0	2,162	2,816	4,990	0	0	0
86	MI Technological U.	11,722	0	147	965	2,782	1,151	3,222	2,766	689
87	OK State U. all campuses	11,139	241	0	370	1,085	1,782	1,420	0	6,241
88	OH U. all campuses	10,504	5,986	0	1,738	1,335	573	396	0	476
89	SUNY Stony Brook all campuses	10,431	0	3,771	0	0	1,918	853	3,739	150
90	U.S. Air Force Academy	10,326	9,043	0	0	92	132	1,059	0	0
91	Northeastern U.	10,259	0	0	1,670	549	1,846	743	0	5,451
92	Naval Postgraduate School	10,201 i	4,253 i	0 i	0 i	0 i	4,296 i	649 i	1,003 i	0 i
93	U. Central FL	9,809	1,026	1,854	0	798	3,342	620	854	1,315
94	U. IL Chicago	9,326	0	2,168	601	1,331	3,165	2,061	0	0
95	MI State U.	8,908	0	0	2,083	891	2,563	2,657	0	714
96	U. ID	8,898	512	186	160	2,601	3,036	1,060	853	490
97	MT State U. Bozeman	8,781	0	1,984	569	3,302	1,946	789	0	191
98	CO School of Mines	8,778	0	0	2,126	0	0	0	4,309	2,343
99	San Francisco State U.	8,556 i	0 i	8,556 i	0 i	0 i	0 i	0 i	0 i	0 i
100	U. MA Amherst	8,553	0	0	1,479	401	5,063	1,446	0	164
	All other sampled institutions	447,358	28,788	25,228	49,609	60,978	87,871	73,028	33,166	88,690

i = imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$375 million in federally financed R&D expenditures in engineering.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 64. Non-S&E R&D expenditures at universities and colleges reporting non-S&E R&D, by highest degree granted and institutional control: FY 2004

(Dollars in thousands)

Highest degree and control of institution	Item 2A respondents (number) ^a	All R&D expenditures			Federally financed R&D expenditures		
		S&E and non-S&E R&D expenditures	Non-S&E R&D expenditures	Percent ^b	S&E and non-S&E R&D expenditures	Non-S&E R&D expenditures	Percent ^b
All universities and colleges	522	38,569,345	1,564,698	4.1	24,504,282	670,427	2.7
Doctorate	311	37,798,309	1,322,559	3.5	24,038,310	535,874	2.2
Nondoctorate	211	771,036	242,139	31.4	465,972	134,553	28.9
Public	325	25,353,211	1,245,689	4.9	14,568,287	547,647	3.8
Private	197	13,216,134	319,009	2.4	9,935,995	122,780	1.2

S&E = science and engineering.

^a Survey item 2A collects data on R&D expenditures for non-S&E fields.

^b Percent non-S&E R&D of total R&D expenditures.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 65. Non-S&E R&D expenditures at universities and colleges reporting non-S&E R&D, by field: FY 2004

(Dollars in thousands)

Field	All non-S&E R&D expenditures	Federal non-S&E R&D expenditures
All non-S&E fields	1,564,698	670,427
Business and management	215,972	51,453
Communications, journalism, and library science	67,182	25,358
Education	703,606	411,243
Humanities	157,405	39,635
Law	49,469	18,697
Social work	74,562	27,235
Visual and performing arts	35,747	4,300
Other non-S&E fields	237,347	86,888

S&E = science and engineering.

NOTE: Detail may not add to total because some institutions provided only total and federal non-S&E R&D data.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								Other non-S&E fields
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	
	Institutions reporting non-S&E R&D expenditures	37,004,647	1,564,698	215,972	67,182	703,606	157,405	49,469	74,562	35,747	237,347
1	U. WI Madison	763,875	66,247	12,253	2,435	31,911	15,361	2,161	376	326	1,424
2	Purdue U. all campuses	365,779	40,195	14,746	224	4,417	1,559	0	0	157	19,092
3	U. TX Austin	343,886	38,507	3,169	4,993	10,781	447	284	2,791	257	15,785
4	OR State U.	170,286	36,915	0	240	629	44	0	0	0	36,002
5	Harvard U.	454,495	35,303	43	74	10,907	767	2,652	0	248	20,612
6	U. MI all campuses	769,126	33,879	6,128	287	16,594	2,278	1,710	5,878	848	156
7	FL State U.	168,132	33,751	1,549	444	24,769	830	809	3,307	2,043	0
8	U. South FL	240,021	33,403	1,757	2,761	26,281	166	0	2,147	101	190
9	OH State U. all campuses	518,088	33,180	742	547	27,023	1,889	499	0	1,840	640
10	U. Central FL	103,261	29,561	21,908	0	7,343	55	197	0	58	0
11	U. IL Urbana-Champaign	506,041	27,208	1,134	2,652	9,378	1,845	527	9,991	948	733
12	U. MD College Park	325,648	25,125	3,536	1,729	9,668	10,192	0	0	0	0
13	KY State U.	3,298	23,467	0	0	18,299	627	0	0	0	4,541
14	Northwestern U.	358,947	23,074	15,858	998	3,803	872	978	0	565	0
15	U. Southern CA	426,665	22,950	1,228	5,825	4,557	3,822	1,601	4,143	1,774	0
16	MI State U.	325,438	22,728	1,785	1,876	13,315	1,812	0	116	324	3,500
17	U. PA	596,756	22,159	2,420	1,402	17,302	387	648	0	0	0
18	U. GA	313,160	21,081	102	797	12,495	2,409	1,421	0	3,857	0
19	Southern IL U. Edwardsville	18,973	20,210	585	160	16,346	49	0	237	275	2,558
20	George Washington U.	103,473	18,729	42	150	16,896	723	918	0	0	0
21	Rutgers, The State U. NJ all campuses	296,534	18,110	1,623	2,596	9,201	537	248	2,476	77	1,352
22	MA Institute of Technology	543,448	17,970	10,705	218	5,735	580	0	0	135	597
23	CA State U. Northridge	10,305	17,738	6,315	54	9,065	51	0	0	397	1,856
24	IN U. all campuses	384,168	17,605	8,439	1,545	4,700	253	59	119	720	1,770
25	U. Memphis, The	44,120	17,353	NA	NA	NA	NA	NA	NA	NA	NA
26	U. NE all campuses	299,090	15,784	2,609	698	3,281	7,401	1,438	15	143	199
27	San Jose State U.	29,268	14,852	3,377	0	3,993	265	0	1,373	225	5,619
28	Wichita State U.	29,948	14,577	1,063	311	6,937	11	722	5,498	35	0
29	FL A&M U.	31,408	13,615	0	38	13,577	0	0	0	0	0
30	TX A&M U. all campuses	456,809	13,515	4,256	224	6,826	1,033	1,174	0	2	0
31	Stanford U.	671,046	13,368	681	1,142	10,689	367	473	0	16	0
32	U. KS all campuses	181,192	13,248	234	49	10,809	1,497	21	311	327	0
33	U. NC Greensboro	3,762	13,118	19	0	12,145	942	0	0	5	7
34	VA Commonwealth U.	132,839	12,887	459	8	5,661	2	0	453	12	6,292
35	U. KY all campuses	297,610	12,860	3,456	3,850	1,805	584	35	334	381	2,415
36	PA State U. all campuses	600,139	12,215	6,361	1,085	2,461	1,456	290	0	562	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								Other non-S&E fields
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	
37	CA State U. Dominguez Hills	5,320	11,926	0	0	6,960	441	0	0	0	4,525
38	U. FL	447,146	11,603	834	2,640	3,779	640	127	0	226	3,357
39	GA State U.	45,415	10,746	3,665	27	2,471	651	772	1,304	256	1,600
40	Princeton U.	188,373	10,695	0	17	1,142	9,128	0	0	319	89
41	San Diego State U.	66,710	10,672	2,434	460	3,129	2,202	0	1,345	693	409
42	AZ State U. main campus	152,164	10,561	2,237	159	2,639	1,701	184	0	2,260	1,381
43	U. TX El Paso	25,440	10,266	67	788	8,612	658	0	1	0	140
44	U. MO-Columbia	217,550	10,042	193	1,536	2,492	825	98	423	557	3,918
45	U. AR Little Rock	4,127	9,658	883	0	7,086	43	91	0	0	1,555
46	SUNY Buffalo all campuses	258,952	9,563	1,738	125	4,165	412	151	448	0	2,524
47	U. CO all campuses	482,992	9,477	1,981	673	6,266	21	4	0	0	532
48	Fayetteville State U.	166	9,420	0	122	8,835	0	0	0	12	451
49	CO State U.	214,888	9,329	1,196	881	2,410	76	0	0	66	4,700
50	FL International U.	63,545	9,179	1,082	1,914	2,224	1,043	471	2,346	99	0
51	U. WI Milwaukee	28,268	9,114	3,973	478	1,712	1,128	0	1,207	7	609
52	Polytechnic U.	11,627	8,952	0	0	8,341	611	0	0	0	0
53	U. Cincinnati all campuses	276,326	8,874	1,188	90	2,029	2,134	0	166	3,267	0
54	Central WA U.	3,134	8,792	1	0	1,244	160	0	0	0	7,387
55	U. MS all campuses	79,867	8,782	103	5	134	1,040	1,339	0	12	6,149
56	Western IL U.	1,404	8,650	550	0	8,100	0	0	0	0	0
57	George Mason U.	46,210	8,553	20	18	892	1,608	5,961	54	0	0
58	U. Louisville	110,653	8,503	424	112	1,849	135	138	258	90	5,497
59	Western MI U.	13,912	8,502	139	111	8,165	62	0	0	25	0
60	U. MN all campuses	515,061	8,441	31	115	2,979	1,502	1,090	1,562	588	574
61	U. NH	103,935	8,250	1,576	0	5,695	472	0	254	0	253
62	MS State U.	191,352	8,208	650	129	5,655	855	0	0	229	690
63	U. OR	51,956	8,148	0	0	7,766	59	323	0	0	0
64	C. of William and Mary all campuses	49,420	8,100	703	0	6,571	732	64	3	27	0
65	FL Gulf Coast U.	1,407	8,072	995	2,644	3,356	0	0	253	0	824
66	U. AR main campus	88,918	7,745	886	58	2,688	1,410	938	179	193	1,393
67	Wayne State U.	225,475	7,657	315	0	1,484	1,025	13	0	81	4,739
68	U. IA	312,914	7,527	990	106	2,503	795	3,071	0	62	0
69	Stevens Institute of Technology	22,814	7,340	288	0	7,052	0	0	0	0	0
70	Western Carolina U.	2,414	6,731	0	0	3,729	3,002	0	0	0	0
71	Clemson U.	158,585	6,554	136	0	4,867	317	0	0	70	1,164
72	IA State U.	211,996	6,374	1,426	0	2,505	133	0	0	15	2,295
73	U. HI Hilo	4,978	6,247	0	0	6,239	0	0	0	8	0
74	CA State U. San Bernardino	8,755	6,212	458	0	546	0	0	1,584	651	2,973

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
75	U. SC all campuses	121,671	6,194	302	87	1,624	764	157	3,217	43	0
76	SUNY Stony Brook all campuses	213,547	5,939	0	8	0	367	0	0	53	5,511
77	MT State U. Bozeman	97,696	5,860	0	1,139	1,014	79	0	226	138	3,264
78	U. LA Lafayette	55,218	5,858	1,295	321	2,128	1,476	0	124	477	37
79	U. MA Amherst	120,788	5,790	2,683	0	2,579	256	136	0	136	0
80	Wellesley C.	5,714	5,525	1,494	15	5	57	0	0	41	3,913
81	U. OK all campuses	158,578	5,384	53	5	3,860	1,031	162	0	36	237
82	U. North TX	11,958	5,166	1,666	533	2,295	324	0	0	348	0
83	U. MO-Rolla	41,242	5,146	1,101	14	0	11	0	0	0	4,020
84	Georgetown U.	126,320	5,067	59	70	764	2,996	1,173	5	0	0
85	Fairfield U.	1,926	4,981	1,569	80	58	1,329	0	0	444	1,501
86	Tufts U.	126,432	4,975	0	611	258	2,617	649	0	137	703
87	U. Denver	12,500	4,939	23	80	413	0	3,831	592	0	0
88	U. VA all campuses	228,532	4,870	0	200	2,889	997	744	0	0	40
89	U. Pittsburgh all campuses	461,693	4,864	237	0	4,506	0	11	0	0	110
90	Winston-Salem State U.	2,073 e	4,816 e	0 e	0 e	3,679 e	0 e	0 e	1,137 e	0 e	0 e
91	U. Houston	60,962	4,730	NA	NA	NA	NA	NA	NA	NA	NA
92	CUNY Graduate Ctr.	5,106	4,678	0	0	1,469	870	0	0	0	2,339
93	U. IL Chicago	307,699	4,534	513	83	3,457	386	0	0	95	0
94	Gallaudet U.	1,804	4,507	0	0	4,507	0	0	0	0	0
95	LA State U. all campuses	341,634	4,413	494	233	423	1,668	1,031	60	219	285
96	Vanderbilt U.	318,335	4,299	0	996	2,555	245	44	0	4	455
97	SUNY Albany	203,977	4,180	0	0	4,055	125	0	0	0	0
98	U. of Notre Dame	74,255	4,173	670	0	2	1,775	80	0	89	1,557
99	NM Highlands U.	2,032	4,155	145	0	4,000	0	0	10	0	0
100	Old Dominion U.	34,819	4,103	211	26	3,654	4	0	0	11	197
101	U. NC Chapel Hill	416,727	4,046	799	1,300	1,652	225	10	0	60	0
102	U. CT all campuses	211,236	3,862	907	306	887	519	48	1,083	109	3
103	U. AZ	478,680	3,822	1,155	1	21	2,472	60	0	113	0
104	SUNY C. Plattsburgh	1,224	3,726	388	20	1,896	0	0	130	0	1,292
105	Eastern MI U.	3,266	3,590	120	28	2,320	877	0	197	8	40
106	Kent State U. all campuses	12,712	3,571	10	884	1,052	329	65	0	0	1,231
107	LA Tech U.	16,118	3,516	2,176	16	618	398	0	0	308	0
108	CUNY Hunter C.	34,931	3,505	0	314	879	783	0	1,234	295	0
109	Boston U.	240,867	3,492	593	1	441	502	9	1,529	0	417
110	Claremont Graduate U.	2,295	3,460	604	0	1,838	404	0	0	15	599
111	Washington U. St. Louis	489,565	3,433	1,086	0	2,151	93	103	0	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								Other non-S&E fields
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	
112	WA State U.	171,735	3,407	88	383	2,216	720	0	0	0	0
113	Southern CT State U.	424	3,327	107	689	446	1,362	0	243	11	469
114	Case Western Reserve U.	231,800	3,272	408	0	0	166	62	2,567	69	0
115	Brandeis U.	51,498	3,259	0	14	2,668	0	428	0	149	0
116	Brigham Young U. all campuses	23,565	3,255	536	5	649	1,926	7	0	12	120
117	Ball State U.	7,483	3,250	586	2	2,330	140	0	0	0	192
118	Teachers C. Columbia U.	9,684	3,246	0	0	3,246	0	0	0	0	0
119	U. MO-Kansas City	31,968	3,240	740	35	60	367	0	173	349	1,516
120	Emory U.	311,685	3,164	0	0	526	1,144	1,494	0	0	0
121	CA State U. Fullerton	4,432	2,999	1,437	8	1,401	0	0	137	14	2
122	UT State U.	153,616	2,850	90	14	2,656	78	0	6	6	0
123	Wabash C.	454	2,840	0	0	1	2,839	0	0	0	0
124	West Chester U. PA	1,956	2,830	643	3	341	243	0	0	31	1,569
125	U. Rochester	312,303	2,776	57	332	1,764	117	0	0	506	0
126	Northeastern IL U.	206	2,753	0	15	2,669	0	0	12	57	0
127	Temple U.	76,055	2,627	77	0	1,058	188	173	847	253	31
128	Carnegie Mellon U.	205,149	2,623	0	0	0	1,327	0	0	1,296	0
129	Rowan U.	6,177	2,603	46	57	2,402	59	0	0	39	0
130	GA Southern U.	2,042	2,468	214	0	1,876	20	0	303	0	55
131	U. Dayton	63,734	2,424	0	0	1,938	347	0	0	139	0
132	U. Chicago	272,390	2,404	957	0	0	212	0	912	0	323
133	U. West FL	7,805	2,388	173	217	1,960	9	0	29	0	0
134	WV U.	108,002	2,342	0	179	196	1,189	113	140	40	485
135	Clark U.	5,638 e	2,318 e	0 e	0 e	2,318 e	0 e	0 e	0 e	0 e	0 e
136	CUNY City C.	25,947	2,285	0	0	727	46	0	42	0	1,470
137	U. MO-St. Louis	12,429	2,255	267	12	228	165	0	34	43	1,506
138	Drexel U.	76,120	2,159	434	225	0	185	0	0	213	1,102
139	Rose-Hulman Institute of Technology	6,388	2,143	0	0	2,143	0	0	0	0	0
140	KS State U.	119,306	2,088	1	341	987	10	0	92	3	654
141	VA Polytechnic Institute and State U.	268,752	2,042	307	0	353	284	0	0	273	825
142	Shaw U.	1,270	2,023	0	115	1,606	62	0	0	0	240
143	Baylor U.	5,242	1,930	31	7	88	87	0	938	9	770
144	U. TN all campuses	228,760	1,920	56	0	0	543	286	641	19	375
145	Pace U. all campuses	1,099	1,896	494	0	8	533	388	0	0	473
146	U. LA Monroe	5,086	1,879	1,879	0	0	0	0	0	0	0
147	U. North FL	3,029	1,861	0	0	1,386	475	0	0	0	0
148	Tarleton State U.	7,194	1,832	0	0	249	16	0	0	0	1,567
149	John Carroll U.	478	1,819	0	0	1,819	0	0	0	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								Other non-S&E fields
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	
150	U. NC Charlotte	17,425	1,800	46	0	1,011	39	0	479	15	210
151	U. MA Lowell	22,163	1,772	12	0	527	2	183	0	26	1,022
152	Bryn Mawr C.	5,664	1,753	0	0	37	1,223	0	442	51	0
153	Southwest MO State U.	2,935	1,742	150	0	1,585	0	0	7	0	0
154	U. PR Mayaguez Campus	16,686	1,700	0	0	1,700	0	0	0	0	0
155	Southern Methodist U.	10,432	1,697	174	0	1,028	171	26	0	0	298
156	Duquesne U.	8,082	1,663	791	0	429	54	260	0	129	0
157	West TX A&M U.	3,879	1,624	1,098	0	383	133	0	0	0	10
158	Western WA U.	4,519	1,605	263	0	424	267	0	647	0	4
159	Seton Hall U.	1,941	1,602	0	0	1,170	432	0	0	0	0
160	U. DE	109,985	1,595	291	0	1,240	64	0	0	0	0
161	TX Christian U.	3,960	1,575	29	42	1,336	10	0	0	143	15
162	Cornell U. all campuses	575,554	1,539	395	13	0	807	1	0	0	323
163	Marshall U.	20,221	1,536	397	0	1,127	12	0	0	0	0
164	U. Northern IA	1,424	1,515	0	0	1,393	7	0	110	0	5
165	U. Miami	194,446	1,472	25	0	1,434	2	0	0	0	11
166	U. WI La Crosse	1,963	1,465	1,242	6	1	9	0	0	0	207
167	CUNY Brooklyn C.	3,917	1,457	1	377	560	413	34	0	72	0
168	U.S. Air Force Academy	29,998	1,424	714	0	13	280	87	0	0	330
169	IL Institute of Technology	22,948	1,416	97	0	416	58	845	0	0	0
170	U. ID	93,246	1,406	0	5	1,394	1	0	0	6	0
171	U. UT	237,159	1,397	281	49	582	334	11	0	140	0
172	Loyola U. Chicago	36,134	1,391	468	0	845	44	5	29	0	0
173	St. Cloud State U.	2,005	1,367	0	356	542	260	0	209	0	0
174	U. NV, Reno	83,552	1,365	392	6	426	525	2	0	14	0
175	TX State U. San Marcos	9,130	1,320	70	0	1,200	50	0	0	0	0
176	CA State U. Long Beach	9,877	1,309	0	0	1,000	25	0	184	46	54
177	Rochester Institute of Technology	19,423	1,288	158	0	1,104	23	0	3	0	0
178	IL State U.	4,498	1,278	0	0	961	3	0	19	0	295
179	Tuskegee U.	11,519	1,262	0	0	1,262	0	0	0	0	0
180	Catholic U. America, The	23,610	1,244	0	2	576	166	170	85	0	245
181	Northern IL U.	11,687	1,231	0	250	554	15	0	412	0	0
182	Cleveland State U.	16,888	1,204	55	104	421	408	0	124	76	16
183	Hamilton C. (Clinton, NY)	1,393	1,188	0	18	268	368	0	521	13	0
184	Dickinson C.	1,608	1,187	6	0	0	1,147	0	0	34	0
185	Duke U.	520,871	1,123	12	0	0	1,050	57	0	4	0
186	U. ME	81,216	1,109	0	0	330	779	0	0	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
187	U. MA Boston	15,460	1,093	162	0	212	59	0	651	9	0
188	U. MT, The	51,078	1,078	174	357	472	38	1	12	24	0
189	Smith C.	2,631	1,056	219	149	272	192	0	170	45	9
190	U. AK Fairbanks all campuses	132,212	1,039	0	4	609	426	0	0	0	0
191	U. AL Huntsville, The	49,259	974	NA	NA	NA	NA	NA	NA	NA	NA
192	TX A&M U. Corpus Christi	12,266	972	12	0	922	28	0	0	0	10
193	U. Southern MS	35,908	950	213	2	413	308	0	11	3	0
194	NM State U. all campuses	93,329	949	643	282	1	0	0	0	23	0
195	CUNY Baruch C.	687	936	2	7	0	49	0	0	0	878
196	Auburn U. all campuses	125,705	914	515	0	212	187	0	0	0	0
197	OH U. all campuses	38,704	914	118	316	64	140	0	0	37	239
198	Calvin C.	1,907	846	0	156	96	449	0	0	145	0
199	Northern AZ U.	19,967	842	25	8	385	106	0	311	7	0
200	MT Tech of the U. MT	5,952	838	137	4	563	0	0	0	0	134
201	Yale U.	422,828	836	0	0	0	600	236	0	0	0
202	U. Northern CO	1,966	828	0	0	818	10	0	0	0	0
203	Embry-Riddle Aeronautical U.	8,558	827	100	0	727	0	0	0	0	0
204	CA State U. Fresno	15,211	800	10	0	738	0	0	52	0	0
205	Drake U.	1,255	800	33	14	423	0	325	0	5	0
206	U. AL Birmingham, The	310,950	796	5	0	765	0	0	0	26	0
207	Amherst C.	2,604	779	0	0	0	446	0	182	143	8
208	U. TX San Antonio	15,738	778	101	2	532	112	0	0	31	0
209	Macalester C.	2,371	761	0	42	21	544	0	0	154	0
210	Rice U.	60,872	757	14	196	142	405	0	0	0	0
211	GA Institute of Technology all campuses	410,799	749	199	0	0	403	0	0	0	147
212	U. AR Pine Bluff	6,246	736	375	0	361	0	0	0	0	0
213	U. IL Springfield	1,491	720	63	0	349	240	0	68	0	0
214	CUNY John Jay C. of Criminal Justice	900	698	0	0	2	24	126	0	0	546
215	U. MA Dartmouth	18,074	683	200	0	199	283	0	0	1	0
216	Grinnell C.	964	674	0	0	0	463	0	0	211	0
217	Tulane U.	132,784	672	474	0	0	57	106	35	0	0
218	U. MD Baltimore County	49,403	662	0	0	381	215	0	12	54	0
219	U. PR Rio Piedras Campus	12,417	654	0	0	250	61	192	0	0	151
220	Rensselaer Polytechnic Institute	56,907	648	303	259	0	44	0	0	42	0
221	U. Tulsa	15,375	625	10	88	188	7	320	0	12	0
222	U. WI Oshkosh	1,252	624	159	0	233	3	0	0	0	229
223	Grand Valley State U.	4,408	611	0	3	591	5	0	0	12	0
224	Roger Williams U. Bristol	352	607	0	0	241	0	366	0	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								Other non-S&E fields
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	
225	Roanoke C.	554	605	0	172	46	275	0	0	21	91
226	Swarthmore C.	2,200	601	0	0	0	601	0	0	0	0
227	C. Charleston	4,875	595	135	29	50	287	0	0	51	43
228	Iona C.	223	594	0	9	0	0	0	8	0	577
229	Simmons C.	892	594	0	68	0	0	0	526	0	0
230	Black Hills State U.	1,184	583	583	0	0	0	0	0	0	0
231	Pomona C.	1,996	575	0	0	0	575	0	0	0	0
232	U. TX-Pan American	3,747	562	26	0	298	238	0	0	0	0
233	TX Southern U.	4,088	560	0	0	0	0	0	0	0	560
234	Alfred U. all campuses	6,395	552	69	13	122	0	318	7	23	0
235	Willamette U.	228	541	0	0	492	0	0	49	0	0
236	East Carolina U.	13,296	515	0	44	224	18	0	0	0	229
237	Eastern WA U.	1,339	508	33	0	0	33	0	390	0	52
238	U. Akron all campuses	27,488	508	0	14	390	45	0	0	59	0
239	Brown U.	130,741	502	130	0	65	70	0	237	0	0
240	U. NC Wilmington	14,381	481	0	0	467	14	0	0	0	0
241	St. Joseph's U.	3,250	480	92	0	373	13	0	0	0	2
242	U. Houston-Clear Lake	754	472	159	0	7	3	0	0	0	303
243	CA State Polytechnic U. San Luis Obispo	9,417	466	0	0	466	0	0	0	0	0
244	SUNY C. Buffalo	2,375	465	0	0	0	166	0	277	22	0
245	State U. West GA	1,027	450	50	0	400	0	0	0	0	0
246	U. VT	114,120	450	77	0	371	2	0	0	0	0
247	Seattle U.	744	445	0	0	0	143	0	0	0	302
248	Stephen F. Austin State U.	3,663	445	1	0	394	0	0	0	50	0
249	TN State U.	15,255	441	3	0	438	0	0	0	0	0
250	Wesleyan U.	7,741	417	0	18	25	348	0	2	14	10
251	Mt. Holyoke C.	2,877	397	0	97	67	217	0	0	16	0
252	Augsburg C.	493	395	0	0	395	0	0	0	0	0
253	CA State U. Monterey Bay	3,002	390	390	0	0	0	0	0	0	0
254	Dillard U.	679	390	0	0	390	0	0	0	0	0
255	Lafayette C.	1,806	384	14	149	0	10	205	0	6	0
256	Lewis and Clark C.	399	383	0	0	0	21	362	0	0	0
257	Fordham U.	3,391	377	50	1	204	0	113	9	0	0
258	U. San Francisco	1,163	372	0	0	1	130	0	0	0	241
259	U. TX Arlington	19,003	372	0	0	268	54	0	0	0	50
260	Loyola C.	935	368	19	0	342	7	0	0	0	0
261	U. Toledo	27,708	368	146	42	140	0	0	5	35	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Total	Non-S&E fields							Other non-S&E fields
				Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	
262	U. NC Asheville	1,644	363	0	0	0	0	0	0	0	363
263	ID State U.	14,385	358	351	0	7	0	0	0	0	0
264	TX A&M U. Commerce	267	354	14	0	314	4	0	1	0	21
265	TX Tech U.	57,592	350	0	0	320	5	25	0	0	0
266	Lawrence Technological U.	655	333	0	0	333	0	0	0	0	0
267	U.S. Naval Academy	5,985	332	0	0	0	332	0	0	0	0
268	Marquette U.	9,652	330	0	2	21	31	14	0	0	262
269	Appalachian State U.	555	329	0	2	301	8	0	16	2	0
270	TX A&M U. Kingsville	11,102	322	18	0	24	0	0	0	0	280
271	SUNY C. Cortland	392	317	0	0	315	2	0	0	0	0
272	Loyola Marymount U.	736	316	62	36	100	50	0	11	46	11
273	Maharishi U. of Management	2,541 e	308 e	100 e	0 e	100 e	0 e	0 e	0 e	0 e	108 e
274	Air Force Institute of Technology	13,001	305	305	0	0	0	0	0	0	0
275	CO State U. Pueblo	786	300	0	0	0	0	0	0	0	300
276	ND State U. all campuses	102,115	297	5	67	216	6	0	0	3	0
277	SUNY Binghamton	25,405	296	0	0	0	0	0	0	0	296
278	Central MI U.	5,681	295	128	0	156	0	0	0	11	0
279	U. AL, The	33,835	295	10	27	0	0	11	218	0	29
280	Middle TN State U.	2,421	285	5	28	0	94	0	7	0	151
281	Andrews U.	584	280	0	0	48	214	0	6	12	0
282	Kennesaw State U.	374	274	0	0	19	76	0	179	0	0
283	Southern IL U. Carbondale	53,953	274	0	4	0	252	0	0	18	0
284	U. ND all campuses	49,595	269	43	0	26	177	0	13	10	0
285	U. Portland	634	260	119	3	127	0	0	11	0	0
286	U. of St. Thomas (St. Paul, MN)	281	250	53	0	74	122	0	1	0	0
287	American U.	1,745	247	0	0	59	188	0	0	0	0
288	Dartmouth C.	173,266	242	0	0	0	0	0	0	0	242
289	East TN State U.	7,788	241	205	4	16	6	0	0	10	0
290	Lake Forest C.	561	239	0	0	166	73	0	0	0	0
291	IN State U. all campuses	1,680	234	7	109	5	106	0	0	0	7
292	U. of the Pacific	2,961	229	194	0	0	0	0	0	35	0
293	La Salle U.	260	228	162	5	25	36	0	0	0	0
294	TN Technological U.	8,779	221	0	0	164	50	0	0	0	7
295	U. WI Parkside	608	218	215	2	0	1	0	0	0	0
296	Carleton C.	1,897	214	0	0	0	214	0	0	0	0
297	Colby C.	995	208	NA	NA	NA	NA	NA	NA	NA	NA
298	Oakland U.	6,616	205	75	15	1	52	0	0	0	62
299	Prairie View A&M U.	10,989	205	0	0	162	43	0	0	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
300	U. WI Stout	1,144	200	2	0	0	1	0	0	0	197
301	U. WI Whitewater	341	197	182	5	8	0	0	0	0	2
302	Western KY U.	5,729	190	0	6	125	59	0	0	0	0
303	U. Puget Sound	398	186	1	0	2	174	0	0	9	0
304	Saginaw Valley State U.	332	173	0	0	15	8	0	0	1	149
305	St. Mary's C. MD	322	169	0	0	0	169	0	0	0	0
306	CA State U. Los Angeles	8,728	166	0	90	0	0	0	0	0	76
307	Clarkson U.	14,703	166	73	7	0	86	0	0	0	0
308	CUNY Queens C.	6,819	164	0	8	30	90	0	0	0	36
309	Wright State U. all campuses	38,052	161	17	0	10	134	0	0	0	0
310	Nicholls State U.	1,075	150	0	0	149	1	0	0	0	0
311	Franklin & Marshall C.	1,300	144	6	0	0	96	0	0	42	0
312	Hartwick C.	609	143	2	0	0	9	0	0	2	130
313	Eastern OR U.	288	142	NA	NA	NA	NA	NA	NA	NA	NA
314	Eastern KY U.	345	137	0	0	137	0	0	0	0	0
315	Hampshire C.	3,051	137	0	0	0	0	0	137	0	0
316	SUNY C. Geneseo	862	137	9	6	30	80	0	0	12	0
317	Howard U.	41,404	135	0	34	32	0	0	0	0	69
318	CUNY Medgar Evers C.	568	128	68	0	0	0	55	0	0	5
319	OR Institute of Technology	2,378	128	73	55	0	0	0	0	0	0
320	Whitman C.	714	125	0	0	0	125	0	0	0	0
321	U. WI Stevens Point	2,042	124	45	2	1	66	0	0	5	5
322	CUNY Herbert H. Lehman C.	3,291	118	0	0	75	43	0	0	0	0
323	U. Richmond	1,625	118	0	12	2	61	10	0	33	0
324	CUNY C. Staten Island	2,730	115	0	0	23	49	0	10	8	25
325	Portland State U.	21,433 e	115 e	0 e	4 e	63 e	20 e	0 e	5 e	23 e	0 e
326	Norfolk State U.	6,200	113	0	0	98	15	0	0	0	0
327	TX Woman's U.	2,120	113	1	67	4	2	0	6	3	30
328	Northern KY U.	876	109	3	13	6	48	3	0	27	9
329	DePaul U.	3,748	106	12	1	26	47	0	0	3	17
330	U. WI Eau Claire	1,056	83	80	0	0	3	0	0	0	0
331	U. Scranton	1,528	78	7	0	39	32	0	0	0	0
332	Spelman C.	2,481	77	0	0	0	77	0	0	0	0
333	New C. FL	305	75	0	0	16	50	0	0	9	0
334	St. Louis U. all campuses	41,189 e	74 e	0 e	0 e	0 e	50 e	5 e	19 e	0 e	0 e
335	Coastal Carolina U.	1,260	71	49	0	2	18	0	2	0	0
336	Jarvis Christian C.	247	70	0	50	20	0	0	0	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								Other non-S&E fields	
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts		
337	Christopher Newport U.	2,029	62	22	40	0	0	0	0	0	0	0
338	SUNY Fredonia	193	59	0	0	59	0	0	0	0	0	0
339	Morehead State U.	1,443	57	0	0	2	45	0	0	10	0	0
340	Bucknell U.	1,817	55	0	0	0	2	0	0	53	0	0
341	James Madison U.	5,442	53	13	23	17	0	0	0	0	0	0
342	Southeastern OK State U.	383	52	0	0	52	0	0	0	0	0	0
343	Wiley C.	270	52	0	0	28	0	0	0	24	0	0
344	Worcester Polytechnic Institute	14,045	52	0	0	52	0	0	0	0	0	0
345	Bowdoin C.	2,073	50	0	0	4	33	5	0	8	0	0
346	U. Redlands	2,038	48	0	0	48	0	0	0	0	0	0
347	U. WI Green Bay	1,739	48	33	0	6	9	0	0	0	0	0
348	Bowling Green State U. all campuses	8,271	47	0	0	24	0	0	0	23	0	0
349	Ithaca C.	2,152	44	8	21	0	15	0	0	0	0	0
350	OK State U. all campuses	103,915	44	0	0	25	19	0	0	0	0	0
351	U. Houston-Downtown	627	42	0	0	41	1	0	0	0	0	0
352	FL Atlantic U.	23,767	38	0	0	2	0	0	20	16	0	0
353	Allegheny C.	1,007	37	0	0	0	37	0	0	0	0	0
354	CUNY York C.	1,710	37	0	0	20	17	0	0	0	0	0
355	FL Institute of Technology	7,801	37	18	0	18	1	0	0	0	0	0
356	Gustavus Adolphus C.	707	32	0	7	2	19	0	0	4	0	0
357	Trinity C. (Hartford, CT)	768	32	0	0	0	20	0	0	12	0	0
358	Central CT State U.	388	31	0	0	31	0	0	0	0	0	0
359	Augustana C. (Rock Island, IL)	599	28	0	0	0	0	0	0	0	0	28
360	SD State U.	29,564	28	0	0	0	0	0	0	28	0	0
361	Elizabeth City State U.	1,044	26	0	0	0	0	26	0	0	0	0
362	Lamar U.	3,365	23	0	0	23	0	0	0	0	0	0
363	VA Military Institute	543	23	0	5	0	18	0	0	0	0	0
364	U. Detroit Mercy	548 e	20 e	1 e	0 e	0 e	19 e	0 e	0 e	0 e	0 e	0 e
365	U. WI Superior	1,136	20	0	0	20	0	0	0	0	0	0
366	Youngstown State U.	1,831	20	3	0	1	16	0	0	0	0	0
367	Murray State U.	4,059	19	1	1	2	7	0	0	7	1	1
368	Bradley U.	1,638	18	15	0	0	0	0	0	3	0	0
369	Pittsburg State U.	2,101	15	0	0	15	0	0	0	0	0	0
370	Radford U.	195	15	0	0	4	1	0	0	0	0	10
371	Clark Atlanta U.	13,576	14	14	0	0	0	0	0	0	0	0
372	Towson U.	614	12	0	2	2	6	0	0	2	0	0
373	U. of Health Sciences	1,098	12	0	0	12	0	0	0	0	0	0
374	Bridgewater State C.	258	11	0	2	2	5	0	0	2	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
375	Hendrix C.	631	11	0	0	0	11	0	0	0	0
376	Abilene Christian U.	229	9	0	0	0	9	0	0	0	0
377	AR State U. main campus	4,572	9	7	0	0	0	0	2	0	0
378	C. of the Holy Cross	683	9	0	0	0	9	0	0	0	0
379	NC Agricultural and Technical State U.	19,534	9	0	0	9	0	0	0	0	0
380	Barnard C.	1,516 e	4 e	0 e	0 e	0 e	4 e	0 e	0 e	0 e	0 e
381	U. WI River Falls	345	4	1	0	2	0	0	1	0	0
382	AL A&M U.	17,429	1	NA	NA	NA	NA	NA	NA	NA	NA
383	U. SD	15,523	1	0	0	1	0	0	0	0	0
	AL State U.	1,688	0	0	0	0	0	0	0	0	0
	Albany C. of Pharmacy	855	0	0	0	0	0	0	0	0	0
	Albany Medical C.	15,562	0	0	0	0	0	0	0	0	0
	Albany State U.	2,619	0	0	0	0	0	0	0	0	0
	Alcorn State U.	7,622	0	0	0	0	0	0	0	0	0
	Augustana C. (Sioux Falls, SD)	288	0	0	0	0	0	0	0	0	0
	Baylor C. of Medicine	476,075	0	0	0	0	0	0	0	0	0
	Benedict C.	1,035	0	0	0	0	0	0	0	0	0
	Bethune-Cookman C.	723	0	0	0	0	0	0	0	0	0
	Bluefield State C.	156	0	0	0	0	0	0	0	0	0
	Boston C.	32,158 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Bowie State U.	1,883	0	0	0	0	0	0	0	0	0
	CA Institute of Technology	261,098	0	0	0	0	0	0	0	0	0
	CA State Polytechnic U. Pomona	4,059	0	0	0	0	0	0	0	0	0
	Chapman U.	965	0	0	0	0	0	0	0	0	0
	Charles R. Drew U. of Medicine and Science	51,994	0	0	0	0	0	0	0	0	0
	Claffin U.	255	0	0	0	0	0	0	0	0	0
	CO School of Mines	27,087	0	0	0	0	0	0	0	0	0
	Cooper Union	150	0	0	0	0	0	0	0	0	0
	Denison U.	415	0	0	0	0	0	0	0	0	0
	Des Moines U. Osteopathic Medical Ctr.	676 e	0	0	0	0	0	0	0	0	0
	Desert Research Institute	34,783	0	0	0	0	0	0	0	0	0
	Eastern VA Medical School	33,798	0	0	0	0	0	0	0	0	0
	Evergreen State C.	354	0	0	0	0	0	0	0	0	0
	Fisk U.	5,000	0	0	0	0	0	0	0	0	0
	Ft. Lewis C.	227	0	0	0	0	0	0	0	0	0
	Ft. Valley State U.	2,596	0	0	0	0	0	0	0	0	0
	Furman U.	1,556	0	0	0	0	0	0	0	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
	Grambling State U.	1,934	0	0	0	0	0	0	0	0	0
	Hampton U.	31,645	0	0	0	0	0	0	0	0	0
	Hope C.	2,213	0	0	0	0	0	0	0	0	0
	Jackson State U.	31,641	0	0	0	0	0	0	0	0	0
	Johns Hopkins U., The ^a	1,375,014	0	0	0	0	0	0	0	0	0
	Juniata C.	898	0	0	0	0	0	0	0	0	0
	Kettering U.	661	0	0	0	0	0	0	0	0	0
	Kirksville C. of Osteopathic Medicine	839	0	0	0	0	0	0	0	0	0
	Langston U.	3,578	0	0	0	0	0	0	0	0	0
	Lincoln U. (Jefferson City, MO)	2,181	0	0	0	0	0	0	0	0	0
	Lincoln U. (Lincoln University, PA)	526	0	0	0	0	0	0	0	0	0
	Loma Linda U.	29,651	0	0	0	0	0	0	0	0	0
	MA C. of Pharmacy and Health Sciences	457	0	0	0	0	0	0	0	0	0
	Medical C. GA	58,808	0	0	0	0	0	0	0	0	0
	Medical C. OH	20,159	0	0	0	0	0	0	0	0	0
	Medical C. WI	139,235	0	0	0	0	0	0	0	0	0
	Medical U. SC	163,179	0	0	0	0	0	0	0	0	0
	Meharry Medical C.	27,507	0	0	0	0	0	0	0	0	0
	Mercer U. all campuses	18,437	0	0	0	0	0	0	0	0	0
	Midwestern U. (Chicago, IL)	2,816	0	0	0	0	0	0	0	0	0
	Milwaukee School of Engineering	3,146	0	0	0	0	0	0	0	0	0
	MS Valley State U.	493	0	0	0	0	0	0	0	0	0
	Morehouse School of Medicine	33,317	0	0	0	0	0	0	0	0	0
	Morgan State U.	8,580	0	0	0	0	0	0	0	0	0
	Mt. Sinai School of Medicine	212,786	0	0	0	0	0	0	0	0	0
	Mt. St. Mary's C. (Los Angeles, CA)	492	0	0	0	0	0	0	0	0	0
	National U. of Health Sciences	401	0	0	0	0	0	0	0	0	0
	New England C. of Optometry	2,297	0	0	0	0	0	0	0	0	0
	NJ City U.	273	0	0	0	0	0	0	0	0	0
	NJ Institute of Technology	74,998	0	0	0	0	0	0	0	0	0
	NM Institute of Mining and Technology	38,476	0	0	0	0	0	0	0	0	0
	NY Institute of Technology all campuses	3,476	0	0	0	0	0	0	0	0	0
	NY Medical C.	33,521	0	0	0	0	0	0	0	0	0
	NY U.	259,333	0	0	0	0	0	0	0	0	0
	Northeastern OH Universities C. of Medicine	5,601	0	0	0	0	0	0	0	0	0
	Nova Southeastern U.	5,139	0	0	0	0	0	0	0	0	0
	Oberlin C.	381	0	0	0	0	0	0	0	0	0
	OR Health & Science U.	254,447	0	0	0	0	0	0	0	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
	PA C. of Optometry	1,509	0	0	0	0	0	0	0	0	0
	Philadelphia C. of Osteopathic Medicine	961	0	0	0	0	0	0	0	0	0
	Pitzer C.	320	0	0	0	0	0	0	0	0	0
	Ponce School of Medicine	10,140	0	0	0	0	0	0	0	0	0
	Providence C.	286	0	0	0	0	0	0	0	0	0
	Reed C.	1,295	0	0	0	0	0	0	0	0	0
	Rider U.	1,276	0	0	0	0	0	0	0	0	0
	Rockefeller U.	192,222	0	0	0	0	0	0	0	0	0
	Rosalind Franklin U. of Medicine and Science	10,614	0	0	0	0	0	0	0	0	0
	Rush U.	89,254	0	0	0	0	0	0	0	0	0
	Savannah State U.	2,094	0	0	0	0	0	0	0	0	0
	Skidmore C.	785	0	0	0	0	0	0	0	0	0
	Sonoma State U.	260	0	0	0	0	0	0	0	0	0
	SC State U.	3,548	0	0	0	0	0	0	0	0	0
	SD School of Mines and Technology	10,626	0	0	0	0	0	0	0	0	0
	Southeastern LA U.	1,681	0	0	0	0	0	0	0	0	0
	Southern OR U.	836	0	0	0	0	0	0	0	0	0
	Southern U. New Orleans	556	0	0	0	0	0	0	0	0	0
	St. Mary's U. (San Antonio, TX)	512	0	0	0	0	0	0	0	0	0
	St. Olaf C.	516	0	0	0	0	0	0	0	0	0
	Sul Ross State U.	1,058	0	0	0	0	0	0	0	0	0
	SUNY C. Brockport	755	0	0	0	0	0	0	0	0	0
	SUNY C. of Optometry	2,435	0	0	0	0	0	0	0	0	0
	SUNY C. Old Westbury	1,326	0	0	0	0	0	0	0	0	0
	SUNY Upstate Medical U.	32,090	0	0	0	0	0	0	0	0	0
	Syracuse U. all campuses	58,276	0	0	0	0	0	0	0	0	0
	TX A&M U. System Health Science Ctr.	64,170	0	0	0	0	0	0	0	0	0
	TX Tech U. Health Science Ctr.	19,827	0	0	0	0	0	0	0	0	0
	Thomas Jefferson U.	112,078	0	0	0	0	0	0	0	0	0
	Trinity U.	1,428	0	0	0	0	0	0	0	0	0
	Uniformed Services U. of the Health Sciences	89,999	0	0	0	0	0	0	0	0	0
	U.S. Coast Guard Academy	866	0	0	0	0	0	0	0	0	0
	Universidad Central del Caribe	9,797	0	0	0	0	0	0	0	0	0
	U. AR for Medical Sciences	74,063	0	0	0	0	0	0	0	0	0
	U. Findlay, The	231	0	0	0	0	0	0	0	0	0
	U. GU	9,458	0	0	0	0	0	0	0	0	0

TABLE 66. R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	All S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
	U. MD Baltimore	317,293	0	0	0	0	0	0	0	0	0
	U. MD Biotechnology Institute	48,278	0	0	0	0	0	0	0	0	0
	U. MD Ctr. for Environmental Science	39,631	0	0	0	0	0	0	0	0	0
	U. MA Worcester	169,090	0	0	0	0	0	0	0	0	0
	U. of Medicine and Dentistry NJ	209,134	0	0	0	0	0	0	0	0	0
	U. North TX Health Science Ctr. Ft. Worth	18,520	0	0	0	0	0	0	0	0	0
	U. PR Humacao U. C.	3,382	0	0	0	0	0	0	0	0	0
	U. PR Medical Sciences Campus	34,092	0	0	0	0	0	0	0	0	0
	U. San Diego	895	0	0	0	0	0	0	0	0	0
	U. TX Health Science Ctr. Houston	147,328	0	0	0	0	0	0	0	0	0
	U. TX Health Science Ctr. San Antonio	137,039	0	0	0	0	0	0	0	0	0
	U. TX M. D. Anderson Cancer Ctr.	353,034	0	0	0	0	0	0	0	0	0
	U. TX Medical Branch	166,798	0	0	0	0	0	0	0	0	0
	U. TX Southwestern Medical Ctr. Dallas	314,403	0	0	0	0	0	0	0	0	0
	U. of the Sciences Philadelphia	544	0	0	0	0	0	0	0	0	0
	U. of the VI	17,874	0	0	0	0	0	0	0	0	0
	U. WA	713,976	0	0	0	0	0	0	0	0	0
	Valparaiso U.	551	0	0	0	0	0	0	0	0	0
	VA State U.	5,953	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	245	0	0	0	0	0	0	0	0	0
	WV State C.	1,433	0	0	0	0	0	0	0	0	0
	Western U. of Health Sciences	1,330	0	0	0	0	0	0	0	0	0
	Wilkes U.	300	0	0	0	0	0	0	0	0	0
	Woods Hole Oceanographic Institution	114,087	0	0	0	0	0	0	0	0	0
	Xavier U. LA	5,585	0	0	0	0	0	0	0	0	0
	Yeshiva U.	183,253	0	0	0	0	0	0	0	0	0

e = estimated.

NA = not available.

S&E = science and engineering.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$0 in total non-S&E R&D expenditures.

NOTES: Detail may not add to total because some respondents reporting total non-S&E R&D expenditures did not break out these funds by non-S&E field. Institutions that did not respond to this item or provide non-S&E R&D expenditures by non-S&E field are not listed in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Total	Non-S&E fields							Other non-S&E fields
				Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	
	Institutions reporting non-S&E R&D expenditures	23,833,855	670,427	51,453	25,358	411,243	39,635	18,697	27,235	4,300	86,888
1	U. WI Madison	434,423	25,080	957	294	21,646	1,525	179	211	1	267
2	KY State U.	3,298	23,467	0	0	18,299	627	0	0	0	4,541
3	Southern IL U. Edwardsville	829	17,777	230	70	14,784	0	0	0	232	2,461
4	Harvard U.	399,764	17,255	0	17	6,778	27	44	0	0	10,389
5	OH State U. all campuses	284,675	16,874	148	197	14,817	857	398	0	50	407
6	U. MD College Park	180,943	16,544	3,184	370	6,554	6,436	0	0	0	0
7	FL State U.	102,967	16,031	73	176	14,399	51	130	1,086	116	0
8	U. South FL	126,906	14,716	1,082	347	12,625	0	0	512	10	140
9	OR State U.	104,276	14,646	0	172	629	44	0	0	0	13,801
10	U. TX Austin	235,281	13,733	367	534	4,892	0	185	744	1	7,010
11	U. MI all campuses	521,339	13,603	190	110	10,370	469	0	2,260	48	156
12	George Washington U.	78,192	13,573	0	20	12,586	525	442	0	0	0
13	U. NC Greensboro	3,267	12,222	2	0	11,611	604	0	0	5	0
14	CA State U. Northridge	6,521	10,693	4,008	54	4,752	0	0	0	397	1,482
15	VA Commonwealth U.	89,066	10,349	454	8	5,175	0	0	0	12	4,700
16	MI State U.	143,473	10,325	525	915	7,198	677	0	40	0	970
17	FL A&M U.	24,994	10,218	0	0	10,218	0	0	0	0	0
18	Fayetteville State U.	161	9,408	0	122	8,835	0	0	0	0	451
19	U. TX El Paso	16,900	8,823	0	0	8,293	402	0	0	0	128
20	San Jose State U.	20,363	7,883	1,925	0	3,585	0	0	1,333	0	1,040
21	U. PA	435,343	7,845	365	1,402	5,837	233	8	0	0	0
22	U. KS all campuses	101,920	7,721	0	0	7,263	346	0	95	17	0
23	Purdue U. all campuses	144,090	7,304	1,671	0	1,944	176	0	0	0	3,513
24	U. Southern CA	312,589	7,298	797	1,169	2,154	185	50	2,438	505	0
25	U. OR	43,634	6,996	0	0	6,881	6	109	0	0	0
26	FL International U.	47,913	6,921	816	1,443	1,677	786	355	1,769	75	0
27	CO State U.	145,213	6,797	880	638	1,919	30	0	0	1	3,329
28	U. CO all campuses	414,986	6,722	1,811	78	4,590	1	0	0	0	242
29	Western MI U.	8,313	6,546	35	0	6,476	35	0	0	0	0
30	Wichita State U.	11,796	6,498	596	185	3,711	0	516	1,490	0	0
31	U. KY all campuses	129,887	6,392	484	3,348	1,185	170	0	213	62	930
32	U. IL Urbana-Champaign	275,896	6,350	118	949	4,199	129	99	747	0	109
33	George Mason U.	39,758	5,910	0	0	707	264	4,913	26	0	0
34	MA Institute of Technology	427,552	5,852	1,661	0	3,257	409	0	0	82	443
35	U. NH	67,917	5,789	780	0	4,759	97	0	0	0	153
36	U. GA	96,348	5,752	0	176	5,277	0	3	0	296	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Total	Non-S&E fields								
				Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields	
37	Western IL U.	369	5,572	210	0	5,362	0	0	0	0	0	0
38	U. HI Hilo	4,217	5,288	0	0	5,288	0	0	0	0	0	0
39	MT State U. Bozeman	58,874	5,138	0	1,096	1,014	79	0	226	128	2,595	0
40	C. of William and Mary all campuses	26,049	5,006	306	0	4,168	532	0	0	0	0	0
41	TX A&M U. all campuses	173,705	4,969	76	90	4,683	93	27	0	0	0	0
42	Winston-Salem State U.	2,073 e	4,816 e	0 e	0 e	3,679 e	0 e	0 e	1,137 e	0 e	0 e	0 e
43	U. FL	221,898	4,749	284	34	2,604	122	20	0	4	1,681	0
44	U. AR Little Rock	2,586	4,610	883	0	2,677	43	91	0	0	916	0
45	U. Pittsburgh all campuses	394,444	4,423	235	0	4,072	0	11	0	0	105	0
46	Polytechnic U.	4,660	4,367	0	0	4,367	0	0	0	0	0	0
47	CA State U. Dominguez Hills	4,179	4,361	0	0	3,805	427	0	0	0	129	0
48	U. Denver	9,839	4,326	6	0	346	0	3,831	143	0	0	0
49	Central WA U.	2,200	4,205	0	0	848	111	0	0	0	3,246	0
50	U. VA all campuses	188,121	4,127	0	198	2,809	892	188	0	0	40	0
51	U. IA	209,865	4,113	125	0	1,300	229	2,459	0	0	0	0
52	U. MS all campuses	59,787	4,113	92	0	40	16	913	0	0	3,052	0
53	U. MO-Columbia	90,304	4,113	0	1,054	1,653	28	44	181	0	1,153	0
54	Rutgers, The State U. NJ all campuses	128,655	4,041	1,029	1,937	901	138	0	36	0	0	0
55	Western Carolina U.	1,633	3,992	0	0	3,702	290	0	0	0	0	0
56	U. MA Amherst	65,452	3,909	2,463	0	1,279	112	0	0	55	0	0
57	U. SC all campuses	71,856	3,749	24	28	1,272	530	154	1,741	0	0	0
58	SUNY Buffalo all campuses	143,865	3,742	3	90	2,777	25	0	154	0	693	0
59	Stanford U.	541,667	3,703	430	0	3,092	181	0	0	0	0	0
60	GA State U.	25,845	3,635	1,784	0	829	0	0	526	0	496	0
61	FL Gulf Coast U.	884	3,518	254	96	2,587	0	0	35	0	546	0
62	IA State U.	92,235	3,505	561	0	1,504	29	0	0	0	1,411	0
63	SUNY Albany	94,712	3,445	0	0	3,398	47	0	0	0	0	0
64	Northwestern U.	230,593	3,387	430	491	2,450	16	0	0	0	0	0
65	U. WI Milwaukee	13,670	3,296	862	0	1,178	110	0	1,142	0	4	0
66	Stevens Institute of Technology	19,473	3,291	229	0	3,062	0	0	0	0	0	0
67	Kent State U. all campuses	9,093	3,075	0	880	777	327	56	0	0	1,035	0
68	MS State U.	82,205	2,957	0	0	2,824	0	0	0	0	133	0
69	Vanderbilt U.	261,484	2,906	0	930	1,781	40	0	0	0	155	0
70	U. Houston	34,468	2,888	NA	NA	NA	NA	NA	NA	NA	NA	NA
71	CA State U. Fullerton	3,979	2,844	1,435	0	1,272	0	0	137	0	0	0
72	PA State U. all campuses	347,996	2,833	1,014	646	263	819	0	0	91	0	0
73	Brigham Young U. all campuses	17,129	2,751	495	0	535	1,714	7	0	0	0	0
74	Ball State U.	3,441	2,736	580	0	2,043	67	0	0	0	46	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Total	Non-S&E fields							
				Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
75	Georgetown U.	95,852	2,731	27	0	0	2,545	159	0	0	0
76	Eastern MI U.	2,375	2,710	0	0	2,043	627	0	26	0	14
77	WA State U.	74,944	2,602	83	149	1,835	535	0	0	0	0
78	Washington U. St. Louis	371,043	2,483	292	0	2,070	31	90	0	0	0
79	U. Memphis, The	14,078	2,444	NA	NA	NA	NA	NA	NA	NA	NA
80	U. MN all campuses	308,369	2,409	0	0	1,468	172	191	83	193	302
81	U. Chicago	229,102	2,364	950	0	0	211	0	880	0	323
82	San Diego State U.	30,092	2,174	820	0	926	257	0	171	0	0
83	IN U. all campuses	166,913	2,136	195	333	747	26	0	0	0	835
84	Boston U.	219,054	2,048	446	0	413	272	0	786	0	131
85	U. CT all campuses	127,609	2,022	393	249	574	308	0	495	3	0
86	GA Southern U.	1,746	2,005	130	0	1,605	20	0	241	0	9
87	CUNY Graduate Ctr.	3,324	1,971	0	0	907	421	0	0	0	643
88	U. IL Chicago	192,825	1,846	174	82	1,590	0	0	0	0	0
89	John Carroll U.	197	1,819	0	0	1,819	0	0	0	0	0
90	U. NE all campuses	115,833	1,789	46	168	1,398	177	0	0	0	0
91	Tufts U.	92,997	1,767	0	189	257	1,319	2	0	0	0
92	Fairfield U.	267	1,740	0	0	49	154	0	0	57	1,480
93	Clemson U.	61,065	1,697	16	0	1,420	0	0	0	0	261
94	Drexel U.	54,963	1,649	346	157	0	151	0	0	0	995
95	Southern CT State U.	312	1,643	107	464	378	320	0	0	0	374
96	U. NC Chapel Hill	304,204	1,633	200	943	436	54	0	0	0	0
97	Carnegie Mellon U.	172,858	1,622	0	0	0	602	0	0	1,020	0
98	CUNY City C.	19,711	1,618	0	0	684	0	0	0	0	934
99	Temple U.	50,456	1,601	38	0	766	0	64	733	0	0
100	U. West FL	5,332	1,598	124	0	1,453	0	0	21	0	0
101	AZ State U. main campus	79,877	1,541	65	6	794	144	184	0	53	295
102	Shaw U.	1,033	1,515	0	0	1,515	0	0	0	0	0
103	SUNY C. Plattsburgh	896	1,514	318	0	1,196	0	0	0	0	0
104	U. Rochester	231,193	1,501	1	85	1,250	93	0	0	72	0
105	U. Dayton	56,647	1,468	0	0	1,345	5	0	0	118	0
106	U. North TX	5,499	1,428	64	86	1,175	103	0	0	0	0
107	Wayne State U.	114,700	1,381	0	0	470	584	0	0	56	271
108	Marshall U.	17,104	1,371	244	0	1,127	0	0	0	0	0
109	U. AR main campus	31,088	1,336	335	3	225	157	614	0	0	2
110	U. NC Charlotte	13,816	1,264	0	0	797	0	0	467	0	0
111	U. LA Monroe	1,271	1,241	1,241	0	0	0	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Total	Non-S&E fields								
				Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields	
112	U. PR Mayaguez Campus	7,539	1,221	0	0	1,221	0	0	0	0	0	0
113	Tuskegee U.	8,904	1,185	0	0	1,185	0	0	0	0	0	0
114	U. MA Lowell	16,655	1,166	0	0	207	1	183	0	0	0	775
115	Rochester Institute of Technology	12,415	1,140	92	0	1,048	0	0	0	0	0	0
116	TX Christian U.	2,961	1,099	26	0	1,060	0	0	0	0	0	13
117	U. Miami	141,943	1,091	25	0	1,066	0	0	0	0	0	0
118	U. OK all campuses	81,048	1,085	13	5	845	13	0	0	0	0	209
119	Loyola U. Chicago	29,150	1,081	461	0	609	0	0	11	0	0	0
120	CA State U. Long Beach	8,351	1,062	0	0	1,000	23	0	39	0	0	0
121	Southwest MO State U.	1,863	1,016	150	0	866	0	0	0	0	0	0
122	Cornell U. all campuses	339,107	978	345	13	0	333	1	0	0	0	286
123	U. DE	76,583	923	81	0	812	30	0	0	0	0	0
124	U. Louisville	54,476	918	85	3	585	6	0	213	3	0	23
125	TX A&M U. Corpus Christi	5,685	895	0	0	895	0	0	0	0	0	0
126	U. Northern IA	646	892	0	0	770	7	0	110	0	0	5
127	U. WI La Crosse	1,221	888	888	0	0	0	0	0	0	0	0
128	Northern IL U.	6,824	883	0	231	435	0	0	217	0	0	0
129	VA Polytechnic Institute and State U.	95,669	870	89	0	172	221	0	0	0	0	388
130	Case Western Reserve U.	195,525	864	93	0	0	103	0	668	0	0	0
131	Embry-Riddle Aeronautical U.	5,179	827	100	0	727	0	0	0	0	0	0
132	MT Tech of the U. MT	4,059	798	137	0	560	0	0	0	0	0	101
133	U. ME	36,513	795	0	0	86	709	0	0	0	0	0
134	IL Institute of Technology	14,903	794	18	0	318	37	421	0	0	0	0
135	Princeton U.	111,435	761	0	12	0	666	0	0	0	83	0
136	Southern Methodist U.	6,752	759	0	0	680	40	0	0	0	0	39
137	U.S. Air Force Academy	15,739	748	375	0	7	147	46	0	0	0	173
138	UT State U.	107,945	723	0	0	719	4	0	0	0	0	0
139	U. ID	48,565	718	0	3	715	0	0	0	0	0	0
140	St. Cloud State U.	972	717	0	173	391	0	0	153	0	0	0
141	SUNY Stony Brook all campuses	123,124	714	0	8	0	0	0	0	0	0	706
142	U. AK Fairbanks all campuses	75,269	710	0	0	345	365	0	0	0	0	0
143	U. Southern MS	32,075	693	28	2	412	240	0	11	0	0	0
144	Brandeis U.	38,041	691	0	8	631	0	52	0	0	0	0
145	U. MT, The	34,478	685	174	0	472	9	1	12	17	0	0
146	NM State U. all campuses	76,396	680	525	135	0	0	0	0	20	0	0
147	Catholic U. America, The	18,927	663	0	0	404	55	0	26	0	0	178
148	U. Central FL	44,020	656	488	0	126	2	0	0	40	0	0
149	Rowan U.	4,355	649	0	33	616	0	0	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
150	Dickinson C.	708	617	0	0	0	617	0	0	0	0
151	U. Northern CO	1,328	616	0	0	615	1	0	0	0	0
152	Roger Williams U. Bristol	352	607	0	0	241	0	366	0	0	0
153	U. MA Boston	5,412	598	0	0	0	59	0	539	0	0
154	Iona C.	213	594	0	9	0	0	0	8	0	577
155	Simmons C.	208	593	0	67	0	0	0	526	0	0
156	Black Hills State U.	934	583	583	0	0	0	0	0	0	0
157	Rensselaer Polytechnic Institute	36,651	575	274	259	0	0	0	0	42	0
158	Northern AZ U.	12,754	567	20	0	207	29	0	311	0	0
159	Yale U.	330,837	525	0	0	0	315	210	0	0	0
160	Claremont Graduate U.	945	523	0	0	504	19	0	0	0	0
161	Hamilton C. (Clinton, NY)	901	521	0	0	0	0	0	521	0	0
162	KS State U.	56,088	513	1	152	121	0	0	7	0	232
163	Willamette U.	94	492	0	0	492	0	0	0	0	0
164	U. of Notre Dame	48,650	485	0	0	0	403	0	0	79	3
165	U. AL Birmingham, The	261,664	480	0	0	468	0	0	0	12	0
166	U. LA Lafayette	15,850	476	30	68	68	179	0	123	8	0
167	CA State U. San Bernardino	5,127	460	0	0	460	0	0	0	0	0
168	U. Cincinnati all campuses	194,965	459	0	0	459	0	0	0	0	0
169	Teachers C. Columbia U.	6,256	453	0	0	453	0	0	0	0	0
170	Rose-Hulman Institute of Technology	726	431	0	0	431	0	0	0	0	0
171	U. NC Wilmington	9,951	431	0	0	431	0	0	0	0	0
172	U. AR Pine Bluff	3,455	415	289	0	126	0	0	0	0	0
173	Auburn U. all campuses	49,565	407	329	0	69	9	0	0	0	0
174	Augsburg C.	493	395	0	0	395	0	0	0	0	0
175	Duquesne U.	3,479	391	144	0	0	54	66	0	127	0
176	CA State U. Monterey Bay	2,548	390	390	0	0	0	0	0	0	0
177	Eastern WA U.	288	382	0	0	0	0	0	382	0	0
178	West TX A&M U.	2,205	376	0	0	376	0	0	0	0	0
179	Cleveland State U.	6,380	375	0	0	11	262	0	102	0	0
180	Emory U.	243,248	366	0	0	117	226	23	0	0	0
181	U. MO-Kansas City	15,696	366	61	0	0	159	0	26	0	120
182	Lafayette C.	1,187	362	14	149	0	0	199	0	0	0
183	U. TN all campuses	109,357	354	35	0	0	153	0	74	0	92
184	State U. West GA	623	350	50	0	300	0	0	0	0	0
185	U. IL Springfield	493	350	0	0	349	0	0	1	0	0
186	CA State Polytechnic U. San Luis Obispo	2,616	341	0	0	341	0	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Total	Non-S&E fields							Other non-S&E fields	
				Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts		
187	Grand Valley State U.	221	338	0	0	338	0	0	0	0	0	0
188	U. MA Dartmouth	9,199	338	0	0	75	263	0	0	0	0	0
189	Alfred U. all campuses	1,494	333	0	0	14	0	318	0	1	0	0
190	WV U.	60,819	331	0	0	157	74	1	0	0	0	99
191	U. NV, Reno	50,787	325	19	0	219	87	0	0	0	0	0
192	Stephen F. Austin State U.	740	321	0	0	321	0	0	0	0	0	0
193	Western WA U.	1,950	312	83	0	0	15	0	214	0	0	0
194	U. Tulsa	11,240	307	7	56	164	2	78	0	0	0	0
195	OH U. all campuses	20,831	305	97	112	28	68	0	0	0	0	0
196	TX A&M U. Commerce	54	301	0	0	301	0	0	0	0	0	0
197	CO State U. Pueblo	714	300	0	0	0	0	0	0	0	0	300
198	U. TX Arlington	10,498	286	0	0	250	3	0	0	0	0	33
199	U. AL Huntsville, The	39,607	285	NA	NA	NA	NA	NA	NA	NA	NA	NA
200	U. AL, The	25,329	284	9	27	0	0	10	212	0	0	26
201	GA Institute of Technology all campuses	237,483	283	0	0	0	196	0	0	0	0	87
202	SUNY Binghamton	10,414	283	0	0	0	0	0	0	0	0	283
203	Rice U.	51,157	277	13	112	12	140	0	0	0	0	0
204	U. UT	161,119	244	0	49	80	115	0	0	0	0	0
205	Dartmouth C.	123,109	242	0	0	0	0	0	0	0	0	242
206	SUNY C. Buffalo	883	242	0	0	0	0	0	242	0	0	0
207	Old Dominion U.	21,377	241	0	0	239	0	0	0	0	0	2
208	West Chester U. PA	1,833	240	0	0	150	90	0	0	0	0	0
209	Tarleton State U.	5,208	231	0	0	231	0	0	0	0	0	0
210	U. VT	79,015	228	40	0	188	0	0	0	0	0	0
211	TX Southern U.	3,749	221	0	0	0	0	0	0	0	0	221
212	ID State U.	8,416	218	218	0	0	0	0	0	0	0	0
213	TX Tech U.	23,181	212	0	0	212	0	0	0	0	0	0
214	U. Akron all campuses	10,284	203	0	0	203	0	0	0	0	0	0
215	Marquette U.	6,046	200	0	0	5	25	0	0	0	0	170
216	Brown U.	84,126	188	18	0	44	70	0	56	0	0	0
217	Seattle U.	95	187	0	0	0	0	0	0	0	0	187
218	Appalachian State U.	272	177	0	0	177	0	0	0	0	0	0
219	Bryn Mawr C.	1,065	177	0	0	0	141	0	36	0	0	0
220	U. AZ	283,956	176	0	0	0	176	0	0	0	0	0
221	CUNY Brooklyn C.	2,559	173	0	95	0	78	0	0	0	0	0
222	Prairie View A&M U.	7,965	173	0	0	162	11	0	0	0	0	0
223	SUNY C. Cortland	245	172	0	0	172	0	0	0	0	0	0
224	St. Mary's C. MD	151	169	0	0	0	169	0	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
225	Drake U.	647	168	0	0	0	0	168	0	0	0
226	East Carolina U.	9,399	167	0	0	151	15	0	0	0	1
227	ND State U. all campuses	45,375	167	0	66	101	0	0	0	0	0
228	Lake Forest C.	228	166	0	0	166	0	0	0	0	0
229	U. Houston-Clear Lake	238	158	158	0	0	0	0	0	0	0
230	IL State U.	2,650	146	0	0	66	0	0	0	0	80
231	U. Toledo	13,229	146	146	0	0	0	0	0	0	0
232	Oakland U.	5,559	143	75	15	1	52	0	0	0	0
233	TN Technological U.	2,564	130	0	0	83	47	0	0	0	0
234	Wesleyan U.	5,388	121	0	0	23	96	0	0	2	0
235	C. Charleston	3,321	120	99	0	12	8	0	0	1	0
236	American U.	1,456	115	0	0	59	56	0	0	0	0
237	Northeastern IL U.	17	106	0	0	106	0	0	0	0	0
238	Hartwick C.	581	102	0	0	0	2	0	0	0	100
239	LA State U. all campuses	112,169	93	30	0	1	57	5	0	0	0
240	Duke U.	347,896	90	0	0	0	90	0	0	0	0
241	U. TX-Pan American	2,578	88	0	0	88	0	0	0	0	0
242	Tulane U.	92,331	87	75	0	0	4	8	0	0	0
243	LA Tech U.	4,718	86	4	0	60	16	0	0	6	0
244	OR Institute of Technology	1,322	85	30	55	0	0	0	0	0	0
245	Baylor U.	1,372	81	0	0	81	0	0	0	0	0
246	Pomona C.	940	77	0	0	0	77	0	0	0	0
247	U. Portland	183	77	46	0	31	0	0	0	0	0
248	CA State U. Los Angeles	8,094	76	0	0	0	0	0	0	0	76
249	U. Puget Sound	370	73	0	0	2	71	0	0	0	0
250	U. of the Pacific	1,700	72	72	0	0	0	0	0	0	0
251	Western KY U.	4,400	72	0	0	58	14	0	0	0	0
252	Coastal Carolina U.	785	71	49	0	2	18	0	2	0	0
253	TX State U. San Marcos	3,536	70	16	0	25	29	0	0	0	0
254	SUNY C. Geneseo	588	69	0	0	15	54	0	0	0	0
255	Portland State U.	13,276 e	68 e	0 e	0 e	59 e	9 e	0 e	0 e	0 e	0 e
256	Wellesley C.	3,708	68	0	0	0	0	0	0	0	68
257	Howard U.	40,086	66	0	34	32	0	0	0	0	0
258	TX Woman's U.	1,175	64	0	64	0	0	0	0	0	0
259	Clarkson U.	6,434	63	0	4	0	59	0	0	0	0
260	U. ND all campuses	36,349	63	0	0	0	63	0	0	0	0
261	U. TX San Antonio	11,644	61	12	0	21	28	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
262	Kennesaw State U.	311	56	0	0	0	11	0	45	0	0
263	U. MO-St. Louis	4,618	54	19	0	35	0	0	0	0	0
264	Lawrence Technological U.	219	53	0	0	53	0	0	0	0	0
265	Southeastern OK State U.	320	52	0	0	52	0	0	0	0	0
266	Worcester Polytechnic Institute	8,489	52	0	0	52	0	0	0	0	0
267	U. WI Oshkosh	879	49	0	0	26	0	0	0	0	23
268	U. Houston-Downtown	449	41	0	0	41	0	0	0	0	0
269	Air Force Institute of Technology	4,664	40	40	0	0	0	0	0	0	0
270	Christopher Newport U.	1,904	40	0	40	0	0	0	0	0	0
271	CUNY York C.	1,669	37	0	0	20	17	0	0	0	0
272	IN State U. all campuses	747	34	0	0	2	30	0	0	0	2
273	Central MI U.	2,707	33	0	0	33	0	0	0	0	0
274	Bucknell U.	955	31	0	0	0	2	0	0	29	0
275	SD State U.	15,127	26	0	0	0	0	0	0	26	0
276	Morehead State U.	1,137	25	0	0	0	25	0	0	0	0
277	Smith C.	1,602	24	0	0	0	0	0	4	20	0
278	St. Louis U. all campuses	36,989 e	24 e	0 e	0 e	0 e	0 e	5 e	19 e	0 e	0 e
279	Wiley C.	169	24	0	0	0	0	0	0	24	0
280	U. Detroit Mercy	158 e	20 e	1 e	0 e	0 e	19 e	0 e	0 e	0 e	0 e
281	Loyola C.	392	19	19	0	0	0	0	0	0	0
282	FL Institute of Technology	5,575	17	0	0	17	0	0	0	0	0
283	Clark Atlanta U.	13,075	14	14	0	0	0	0	0	0	0
284	Franklin & Marshall C.	815	12	0	0	0	12	0	0	0	0
285	U. MO-Rolla	20,218	12	0	12	0	0	0	0	0	0
286	Hendrix C.	615	11	0	0	0	11	0	0	0	0
287	Lamar U.	1,494	10	0	0	10	0	0	0	0	0
288	New C. FL	199	9	0	0	9	0	0	0	0	0
289	U. WI Whitewater	264	9	0	0	8	0	0	0	0	1
290	NC Agricultural and Technical State U.	13,487	8	0	0	8	0	0	0	0	0
291	SUNY Fredonia	116	8	0	0	8	0	0	0	0	0
292	U. Richmond	900	8	0	8	0	0	0	0	0	0
293	U. WI Green Bay	1,293	5	5	0	0	0	0	0	0	0
294	Central CT State U.	239	4	0	0	4	0	0	0	0	0
295	Allegheny C.	476	3	0	0	0	3	0	0	0	0
296	Grinnell C.	225	3	0	0	0	3	0	0	0	0
297	TX A&M U. Kingsville	3,832	3	0	0	3	0	0	0	0	0
298	DePaul U.	3,539	2	2	0	0	0	0	0	0	0
299	AL A&M U.	12,023	1	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
300	Barnard C.	1,369 e	1 e	0 e	0 e	0 e	1 e	0 e	0 e	0 e	0 e
301	Northern KY U.	474	1	0	1	0	0	0	0	0	0
302	OK State U. all campuses	43,345	1	0	0	1	0	0	0	0	0
303	Radford U.	90	1	0	0	0	1	0	0	0	0
304	U. MD Baltimore County	37,548	1	0	0	1	0	0	0	0	0
305	U. San Francisco	706	1	0	0	1	0	0	0	0	0
	Abilene Christian U.	135	0	0	0	0	0	0	0	0	0
	AL State U.	1,683	0	0	0	0	0	0	0	0	0
	Albany C. of Pharmacy	235	0	0	0	0	0	0	0	0	0
	Albany Medical C.	11,849	0	0	0	0	0	0	0	0	0
	Albany State U.	2,547	0	0	0	0	0	0	0	0	0
	Alcorn State U.	7,622	0	0	0	0	0	0	0	0	0
	Amherst C.	1,126	0	0	0	0	0	0	0	0	0
	Andrews U.	249	0	0	0	0	0	0	0	0	0
	AR State U. main campus	569	0	0	0	0	0	0	0	0	0
	Augustana C. (Rock Island, IL)	504	0	0	0	0	0	0	0	0	0
	Augustana C. (Sioux Falls, SD)	273	0	0	0	0	0	0	0	0	0
	Baylor C. of Medicine	312,669	0	0	0	0	0	0	0	0	0
	Benedict C.	1,020	0	0	0	0	0	0	0	0	0
	Bethune-Cookman C.	723	0	0	0	0	0	0	0	0	0
	Bluefield State C.	156	0	0	0	0	0	0	0	0	0
	Boston C.	22,907 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Bowdoin C.	1,151	0	0	0	0	0	0	0	0	0
	Bowie State U.	1,883	0	0	0	0	0	0	0	0	0
	Bowling Green State U. all campuses	5,318	0	0	0	0	0	0	0	0	0
	Bradley U.	671	0	0	0	0	0	0	0	0	0
	Bridgewater State C.	36	0	0	0	0	0	0	0	0	0
	CA Institute of Technology	244,187	0	0	0	0	0	0	0	0	0
	CA State Polytechnic U. Pomona	4,059	0	0	0	0	0	0	0	0	0
	CA State U. Fresno	3,750	0	0	0	0	0	0	0	0	0
	Calvin C.	530	0	0	0	0	0	0	0	0	0
	Carleton C.	1,575	0	0	0	0	0	0	0	0	0
	Chapman U.	439	0	0	0	0	0	0	0	0	0
	Charles R. Drew U. of Medicine and Science	40,430	0	0	0	0	0	0	0	0	0
	Clafflin U.	255	0	0	0	0	0	0	0	0	0
	Clark U.	4,475 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Colby C.	373	0	0	0	0	0	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Non-S&E fields									
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields	
	C. of the Holy Cross	538	0	0	0	0	0	0	0	0	0	0
	CO School of Mines	16,550	0	0	0	0	0	0	0	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0	0	0	0
	CUNY Baruch C.	232	0	0	0	0	0	0	0	0	0	0
	CUNY C. Staten Island	1,624	0	0	0	0	0	0	0	0	0	0
	CUNY Herbert H. Lehman C.	2,936	0	0	0	0	0	0	0	0	0	0
	CUNY Hunter C.	18,836	0	0	0	0	0	0	0	0	0	0
	CUNY John Jay C. of Criminal Justice	177	0	0	0	0	0	0	0	0	0	0
	CUNY Medgar Evers C.	555	0	0	0	0	0	0	0	0	0	0
	CUNY Queens C.	5,820	0	0	0	0	0	0	0	0	0	0
	Denison U.	224	0	0	0	0	0	0	0	0	0	0
	Des Moines U. Osteopathic Medical Ctr.	78 e	0	0	0	0	0	0	0	0	0	0
	Desert Research Institute	26,235	0	0	0	0	0	0	0	0	0	0
	Dillard U.	351	0	0	0	0	0	0	0	0	0	0
	East TN State U.	4,412	0	0	0	0	0	0	0	0	0	0
	Eastern KY U.	175	0	0	0	0	0	0	0	0	0	0
	Eastern OR U.	64	0	0	0	0	0	0	0	0	0	0
	Eastern VA Medical School	17,530	0	0	0	0	0	0	0	0	0	0
	Elizabeth City State U.	1,032	0	0	0	0	0	0	0	0	0	0
	Evergreen State C.	354	0	0	0	0	0	0	0	0	0	0
	Fisk U.	5,000	0	0	0	0	0	0	0	0	0	0
	FL Atlantic U.	14,662	0	0	0	0	0	0	0	0	0	0
	Fordham U.	929	0	0	0	0	0	0	0	0	0	0
	Ft. Lewis C.	150	0	0	0	0	0	0	0	0	0	0
	Ft. Valley State U.	2,558	0	0	0	0	0	0	0	0	0	0
	Furman U.	1,197	0	0	0	0	0	0	0	0	0	0
	Gallaudet U.	1,747	0	0	0	0	0	0	0	0	0	0
	Grambling State U.	1,522	0	0	0	0	0	0	0	0	0	0
	Gustavus Adolphus C.	533	0	0	0	0	0	0	0	0	0	0
	Hampshire C.	1,181	0	0	0	0	0	0	0	0	0	0
	Hampton U.	31,443	0	0	0	0	0	0	0	0	0	0
	Hope C.	1,576	0	0	0	0	0	0	0	0	0	0
	Ithaca C.	1,807	0	0	0	0	0	0	0	0	0	0
	Jackson State U.	28,806	0	0	0	0	0	0	0	0	0	0
	James Madison U.	2,843	0	0	0	0	0	0	0	0	0	0
	Jarvis Christian C.	232	0	0	0	0	0	0	0	0	0	0
	Johns Hopkins U., The ^a	1,229,426	0	0	0	0	0	0	0	0	0	0
	Juniata C.	778	0	0	0	0	0	0	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Non-S&E fields									
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields	
	Kettering U.	298	0	0	0	0	0	0	0	0	0	0
	Kirksville C. of Osteopathic Medicine	333	0	0	0	0	0	0	0	0	0	0
	La Salle U.	57	0	0	0	0	0	0	0	0	0	0
	Langston U.	3,578	0	0	0	0	0	0	0	0	0	0
	Lewis and Clark C.	129	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Jefferson City, MO)	1,552	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Lincoln University, PA)	526	0	0	0	0	0	0	0	0	0	0
	Loma Linda U.	26,631	0	0	0	0	0	0	0	0	0	0
	Loyola Marymount U.	508	0	0	0	0	0	0	0	0	0	0
	Macalester C.	959	0	0	0	0	0	0	0	0	0	0
	Maharishi U. of Management	2,541 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	MA C. of Pharmacy and Health Sciences	270	0	0	0	0	0	0	0	0	0	0
	Medical C. GA	35,841	0	0	0	0	0	0	0	0	0	0
	Medical C. OH	14,591	0	0	0	0	0	0	0	0	0	0
	Medical C. WI	100,547	0	0	0	0	0	0	0	0	0	0
	Medical U. SC	103,494	0	0	0	0	0	0	0	0	0	0
	Meharry Medical C.	26,159	0	0	0	0	0	0	0	0	0	0
	Mercer U. all campuses	9,613	0	0	0	0	0	0	0	0	0	0
	Middle TN State U.	1,651	0	0	0	0	0	0	0	0	0	0
	Midwestern U. (Chicago, IL)	857	0	0	0	0	0	0	0	0	0	0
	Milwaukee School of Engineering	662	0	0	0	0	0	0	0	0	0	0
	MS Valley State U.	493	0	0	0	0	0	0	0	0	0	0
	Morehouse School of Medicine	23,331	0	0	0	0	0	0	0	0	0	0
	Morgan State U.	7,227	0	0	0	0	0	0	0	0	0	0
	Mt. Holyoke C.	1,800	0	0	0	0	0	0	0	0	0	0
	Mt. Sinai School of Medicine	170,757	0	0	0	0	0	0	0	0	0	0
	Mt. St. Mary's C. (Los Angeles, CA)	492	0	0	0	0	0	0	0	0	0	0
	Murray State U.	1,185	0	0	0	0	0	0	0	0	0	0
	National U. of Health Sciences	31	0	0	0	0	0	0	0	0	0	0
	New England C. of Optometry	1,958	0	0	0	0	0	0	0	0	0	0
	NJ City U.	260	0	0	0	0	0	0	0	0	0	0
	NJ Institute of Technology	30,995	0	0	0	0	0	0	0	0	0	0
	NM Highlands U.	1,810	0	0	0	0	0	0	0	0	0	0
	NM Institute of Mining and Technology	13,853	0	0	0	0	0	0	0	0	0	0
	NY Institute of Technology all campuses	1,110	0	0	0	0	0	0	0	0	0	0
	NY Medical C.	25,103	0	0	0	0	0	0	0	0	0	0
	NY U.	181,441	0	0	0	0	0	0	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Non-S&E fields								
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields
	Nicholls State U.	98	0	0	0	0	0	0	0	0	0
	Norfolk State U.	6,054	0	0	0	0	0	0	0	0	0
	Northeastern OH Universities C. of Medicine	2,964	0	0	0	0	0	0	0	0	0
	Nova Southeastern U.	1,884	0	0	0	0	0	0	0	0	0
	Oberlin C.	291	0	0	0	0	0	0	0	0	0
	OR Health & Science U.	206,219	0	0	0	0	0	0	0	0	0
	Pace U. all campuses	644	0	0	0	0	0	0	0	0	0
	PA C. of Optometry	1,407	0	0	0	0	0	0	0	0	0
	Philadelphia C. of Osteopathic Medicine	951	0	0	0	0	0	0	0	0	0
	Pittsburg State U.	744	0	0	0	0	0	0	0	0	0
	Pitzer C.	223	0	0	0	0	0	0	0	0	0
	Ponce School of Medicine	9,179	0	0	0	0	0	0	0	0	0
	Providence C.	214	0	0	0	0	0	0	0	0	0
	Reed C.	702	0	0	0	0	0	0	0	0	0
	Rider U.	428	0	0	0	0	0	0	0	0	0
	Roanoke C.	364	0	0	0	0	0	0	0	0	0
	Rockefeller U.	82,535	0	0	0	0	0	0	0	0	0
	Rosalind Franklin U. of Medicine and Science	7,843	0	0	0	0	0	0	0	0	0
	Rush U.	51,706	0	0	0	0	0	0	0	0	0
	Saginaw Valley State U.	10	0	0	0	0	0	0	0	0	0
	Savannah State U.	2,094	0	0	0	0	0	0	0	0	0
	Seton Hall U.	1,233	0	0	0	0	0	0	0	0	0
	Skidmore C.	364	0	0	0	0	0	0	0	0	0
	Sonoma State U.	234	0	0	0	0	0	0	0	0	0
	SC State U.	2,418	0	0	0	0	0	0	0	0	0
	SD School of Mines and Technology	8,366	0	0	0	0	0	0	0	0	0
	Southeastern LA U.	1,257	0	0	0	0	0	0	0	0	0
	Southern IL U. Carbondale	15,557	0	0	0	0	0	0	0	0	0
	Southern OR U.	587	0	0	0	0	0	0	0	0	0
	Southern U. New Orleans	556	0	0	0	0	0	0	0	0	0
	Spelman C.	2,419	0	0	0	0	0	0	0	0	0
	St. Joseph's U.	2,612	0	0	0	0	0	0	0	0	0
	St. Mary's U. (San Antonio, TX)	414	0	0	0	0	0	0	0	0	0
	St. Olaf C.	347	0	0	0	0	0	0	0	0	0
	Sul Ross State U.	261	0	0	0	0	0	0	0	0	0
	SUNY C. Brockport	574	0	0	0	0	0	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Non-S&E fields									
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields	
	SUNY C. of Optometry	1,856	0	0	0	0	0	0	0	0	0	0
	SUNY C. Old Westbury	1,258	0	0	0	0	0	0	0	0	0	0
	SUNY Upstate Medical U.	22,650	0	0	0	0	0	0	0	0	0	0
	Swarthmore C.	1,449	0	0	0	0	0	0	0	0	0	0
	Syracuse U. all campuses	43,162	0	0	0	0	0	0	0	0	0	0
	TN State U.	11,277	0	0	0	0	0	0	0	0	0	0
	TX A&M U. System Health Science Ctr.	30,283	0	0	0	0	0	0	0	0	0	0
	TX Tech U. Health Science Ctr.	7,604	0	0	0	0	0	0	0	0	0	0
	Thomas Jefferson U.	92,296	0	0	0	0	0	0	0	0	0	0
	Towson U.	302	0	0	0	0	0	0	0	0	0	0
	Trinity C. (Hartford, CT)	686	0	0	0	0	0	0	0	0	0	0
	Trinity U.	805	0	0	0	0	0	0	0	0	0	0
	Uniformed Services U. of the Health Sciences	62,408	0	0	0	0	0	0	0	0	0	0
	U.S. Coast Guard Academy	866	0	0	0	0	0	0	0	0	0	0
	U.S. Naval Academy	5,341	0	0	0	0	0	0	0	0	0	0
	Universidad Central del Caribe	8,498	0	0	0	0	0	0	0	0	0	0
	U. AR for Medical Sciences	53,249	0	0	0	0	0	0	0	0	0	0
	U. Findlay, The	40	0	0	0	0	0	0	0	0	0	0
	U. GU	9,205	0	0	0	0	0	0	0	0	0	0
	U. of Health Sciences	407	0	0	0	0	0	0	0	0	0	0
	U. MD Baltimore	141,221	0	0	0	0	0	0	0	0	0	0
	U. MD Biotechnology Institute	24,059	0	0	0	0	0	0	0	0	0	0
	U. MD Ctr. for Environmental Science	13,824	0	0	0	0	0	0	0	0	0	0
	U. MA Worcester	126,162	0	0	0	0	0	0	0	0	0	0
	U. of Medicine and Dentistry NJ	121,812	0	0	0	0	0	0	0	0	0	0
	U. NC Asheville	265	0	0	0	0	0	0	0	0	0	0
	U. North FL	1,493	0	0	0	0	0	0	0	0	0	0
	U. North TX Health Science Ctr. Ft. Worth	13,259	0	0	0	0	0	0	0	0	0	0
	U. PR Humacao U. C.	3,201	0	0	0	0	0	0	0	0	0	0
	U. PR Medical Sciences Campus	28,063	0	0	0	0	0	0	0	0	0	0
	U. PR Rio Piedras Campus	8,093	0	0	0	0	0	0	0	0	0	0
	U. Redlands	1,711	0	0	0	0	0	0	0	0	0	0
	U. San Diego	399	0	0	0	0	0	0	0	0	0	0
	U. Scranton	1,374	0	0	0	0	0	0	0	0	0	0
	U. SD	12,849	0	0	0	0	0	0	0	0	0	0
	U. of St. Thomas (St. Paul, MN)	154	0	0	0	0	0	0	0	0	0	0
	U. TX Health Science Ctr. Houston	106,737	0	0	0	0	0	0	0	0	0	0
	U. TX Health Science Ctr. San Antonio	89,662	0	0	0	0	0	0	0	0	0	0

TABLE 67. Federally financed R&D expenditures in non-science and engineering fields at universities and colleges, ranked by total federal expenditures in non-S&E fields: FY 2004
(Dollars in thousands)

Rank	Institution	Federal S&E R&D expenditures	Non-S&E fields									
			Total	Business and management	Communications, journalism, and library science	Education	Humanities	Law	Social work	Visual and performing arts	Other non-S&E fields	
	U. TX M. D. Anderson Cancer Ctr.	150,529	0	0	0	0	0	0	0	0	0	0
	U. TX Medical Branch	102,491	0	0	0	0	0	0	0	0	0	0
	U. TX Southwestern Medical Ctr. Dallas	200,888	0	0	0	0	0	0	0	0	0	0
	U. of the Sciences Philadelphia	207	0	0	0	0	0	0	0	0	0	0
	U. of the VI	11,598	0	0	0	0	0	0	0	0	0	0
	U. WA	625,218	0	0	0	0	0	0	0	0	0	0
	U. WI Eau Claire	721	0	0	0	0	0	0	0	0	0	0
	U. WI Parkside	548	0	0	0	0	0	0	0	0	0	0
	U. WI River Falls	106	0	0	0	0	0	0	0	0	0	0
	U. WI Stevens Point	884	0	0	0	0	0	0	0	0	0	0
	U. WI Stout	838	0	0	0	0	0	0	0	0	0	0
	U. WI Superior	743	0	0	0	0	0	0	0	0	0	0
	Valparaiso U.	404	0	0	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0	0	0	0
	VA State U.	5,655	0	0	0	0	0	0	0	0	0	0
	Wabash C.	166	0	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0	0
	WV State C.	1,403	0	0	0	0	0	0	0	0	0	0
	Western U. of Health Sciences	312	0	0	0	0	0	0	0	0	0	0
	Whitman C.	544	0	0	0	0	0	0	0	0	0	0
	Wilkes U.	105	0	0	0	0	0	0	0	0	0	0
	Woods Hole Oceanographic Institution	100,456	0	0	0	0	0	0	0	0	0	0
	Wright State U. all campuses	20,599	0	0	0	0	0	0	0	0	0	0
	Xavier U. LA	5,226	0	0	0	0	0	0	0	0	0	0
	Yeshiva U.	151,520	0	0	0	0	0	0	0	0	0	0
	Youngstown State U.	1,385	0	0	0	0	0	0	0	0	0	0

e = estimated.

NA = not available.

S&E = science and engineering.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$0 in federally financed non-S&E R&D expenditures.

NOTES: Detail may not add to total because some respondents reporting total non-S&E R&D expenditures did not break out these funds by non-S&E field. Institutions that did not respond to this item or provide non-S&E R&D expenditures by non-S&E field are not listed in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 68. Federally financed R&D expenditures at universities and colleges reporting federal agency R&D, by highest degree granted, institutional control, and federal agency: FY 2004

(Dollars in thousands)

Highest degree and control of institution	Respondents (number)	R&D expenditures	Federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All universities and colleges	546	40,932,735	25,737,149	2,477,556	940,268	14,083,356	1,098,480	3,231,597	760,970	3,144,862
Doctorate	327	40,394,689	25,403,709	2,442,875	915,917	14,019,212	1,063,014	3,155,442	721,247	3,086,002
Nondoctorate	219	538,046	333,440	34,681	24,351	64,144	35,466	76,155	39,723	58,860
Public	343	28,787,010	16,614,127	1,750,002	616,880	8,132,417	743,356	2,220,099	688,815	2,462,498
Private	203	12,145,725	9,123,022	727,554	323,388	5,950,939	355,124	1,011,498	72,155	682,364
Percent of federal expenditures										
All universities and colleges	546	40,932,735	25,737,149	9.6	3.7	54.7	4.3	12.6	3.0	12.2
Doctorate	327	40,394,689	25,403,709	9.6	3.6	55.2	4.2	12.4	2.8	12.1
Nondoctorate	219	538,046	333,440	10.4	7.3	19.2	10.6	22.8	11.9	17.7
Public	343	28,787,010	16,614,127	10.5	3.7	48.9	4.5	13.4	4.1	14.8
Private	203	12,145,725	9,123,022	8.0	3.5	65.2	3.9	11.1	0.8	7.5

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

^a Includes all reported agencies other than the six listed here.

NOTES: R&D expenditures and federal R&D expenditures are only for those respondents who reported federal agency details. Agency detail may not add to total federal expenditures because some institutions were unable to provide complete agency data.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 69. Federally financed R&D expenditures at universities and colleges, by science and engineering field and federal agency: FY 2004
(Dollars in thousands)

Science and engineering field	Federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All science and engineering	27,379,233	2,477,556	940,268	14,083,356	1,098,480	3,231,597	760,970	3,144,862
Computer sciences	1,027,929	303,041	32,200	26,747	38,738	410,783	2,091	119,049
Environmental sciences	1,595,993	140,036	68,469	30,618	231,900	520,558	44,435	474,230
Atmospheric sciences	322,355	20,360	14,345	1,213	101,991	79,923	1,511	80,226
Earth sciences	534,609	34,842	37,504	8,417	88,217	167,725	32,537	112,555
Oceanography	547,654	61,935	4,787	10,823	23,028	188,453	5,267	216,485
Environmental sciences, nec	191,375	14,783	11,142	9,445	15,822	30,209	5,120	44,212
Life sciences	16,413,267	402,982	143,878	12,578,943	108,263	508,430	631,346	1,346,985
Agricultural sciences	867,963	11,531	19,426	81,274	15,144	96,662	429,931	187,633
Biological sciences	5,503,954	120,562	66,014	4,246,985	44,855	347,397	160,612	308,040
Medical sciences	9,372,273	257,180	44,207	7,733,554	44,819	40,246	26,895	765,002
Life sciences, nec	669,077	12,356	14,231	472,535	3,144	21,967	13,908	86,143
Mathematical sciences	319,321	31,443	6,899	49,930	5,044	154,096	2,779	24,625
Physical sciences	2,566,825	307,474	364,673	430,869	336,554	720,443	7,299	207,657
Astronomy	289,176	13,877	6,088	118	123,888	53,505	0	17,707
Chemistry	919,489	93,902	60,966	384,971	25,129	246,271	4,872	72,049
Physics	1,169,239	168,158	277,637	27,653	133,356	371,824	2,090	105,056
Physical sciences, nec	188,921	30,777	17,989	16,515	53,469	46,591	337	12,841
Psychology	586,800	27,307	572	434,594	10,267	45,749	358	56,106
Social sciences	695,436	24,214	5,259	248,542	15,031	96,529	34,613	232,532
Economics	108,994	4,159	671	16,943	2,916	21,941	21,947	34,148
Political sciences	109,700	3,055	757	37,166	1,694	15,843	1,567	34,999
Sociology	181,784	2,979	742	103,690	721	24,299	5,185	40,126
Social sciences, nec	294,958	14,021	2,910	90,226	9,700	33,801	5,914	123,174
Sciences, nec	271,331	34,193	10,700	50,920	6,691	51,834	3,999	70,053
Engineering	3,902,331	1,204,933	305,535	224,959	345,877	720,131	33,920	612,980
Aeronautical/astronautical engineering	335,815	109,160	7,251	1,077	113,410	17,667	164	40,967
Bioengineering/biomedical engineering	235,954	25,040	3,056	108,861	5,531	27,801	4,662	33,212
Chemical engineering	267,553	43,197	52,581	26,971	14,994	76,148	3,969	35,494
Civil engineering	347,335	31,221	18,147	5,564	12,704	97,121	6,152	161,298
Electrical engineering	970,538	436,973	25,381	21,743	38,565	214,133	2,529	91,097
Mechanical engineering	582,222	185,698	86,979	16,579	42,467	78,086	1,214	76,945
Metallurgical/materials engineering	352,238	163,852	43,063	9,074	12,946	71,407	1,101	47,663
Engineering, nec	810,676	193,811	68,633	35,090	104,602	128,986	14,129	122,394

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.
nec = not elsewhere classified.

^a Includes all reported agencies other than the six listed here.

NOTES: Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science and engineering. Also, agency data may not add to total federal expenditures because some institutions did not break out their federal expenditures by federal agency.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004
(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
	All institutions	25,737,149	2,477,556	940,268	14,083,356	1,098,480	3,231,597	760,970	3,144,862
1	U. WA	625,218	3,845	15,902	2,767	11,624	69,694	2,181	519,205
2	Stanford U.	541,667	55,397	20,957	298,967	97,644	54,810	250	13,642
3	U. MI all campuses	521,339	54,980	19,657	349,473	15,890	57,662	1,220	22,457
4	U. CA, San Diego	465,629	37,626	12,085	257,994	9,206	124,304	332	24,082
5	U. CA, Los Angeles	461,145	38,782	22,482	328,575	15,893	40,028	94	15,291
6	U. PA	435,343	12,519	7,171	369,929	1,380	24,239	1,558	18,547
7	U. WI Madison	434,423	25,169	28,446	241,886	11,299	83,096	16,252	28,275
8	MA Institute of Technology	427,552	86,796	69,263	156,994	32,049	69,889	0	12,561
9	U. CA, San Francisco	418,944	6,545	685	402,927	463	1,304	78	6,942
10	U. CO all campuses	414,986	17,758	7,500	210,555	41,255	42,073	525	95,320
11	Columbia U. in the City of NY	406,576	9,483	514	258,765	11,343	63,100	156	63,215
12	Harvard U.	399,764	12,417	10,052	286,824	9,146	29,290	67	51,968
13	U. Pittsburgh all campuses	394,444	15,040	4,280	312,490	1,604	16,475	0	44,555
14	Washington U. St. Louis	371,043	4,941	2,961	340,940	4,659	12,267	598	4,677
15	PA State U. all campuses	347,996	135,749	14,016	85,761	14,540	44,912	9,034	43,984
16	Duke U.	347,896	22,074	7,997	286,919	1,927	22,687	504	5,788
17	Cornell U. all campuses	339,107	19,392	6,922	180,222	5,645	90,792	24,431	11,703
18	Yale U.	330,837	6,250	9,908	290,022	1,639	20,039	1,179	1,800
19	Baylor C. of Medicine	312,669	6,433	366	257,857	27,853	1,654	16,858	1,648
20	U. Southern CA	312,589	65,848	5,351	151,008	5,648	38,051	0	46,683
21	U. MN all campuses	308,369	13,007	6,610	209,047	5,178	45,303	16,615	12,609
22	U. NC Chapel Hill	304,204	116	2,128	241,644	1,513	18,247	439	40,117
23	OH State U. all campuses	284,675	26,799	12,470	133,148	9,126	36,192	13,828	53,112
24	U. AZ	283,956	16,851	3,797	110,863	57,491	44,870	10,433	39,651
25	U. IL Urbana-Champaign	275,896	40,079	25,400	54,457	7,337	112,616	18,886	17,121
26	U. CA, Berkeley	268,830	33,330	6,417	90,468	41,916	70,397	5,095	21,207
27	U. AL Birmingham, The	261,664	8,866	1,544	228,363	9,424	3,154	207	10,106
28	Vanderbilt U.	261,484	18,309	3,486	218,391	2,875	12,625	357	5,441
29	CA Institute of Technology	244,187	10,914	14,475	37,003	17,469	73,816	29	90,481
30	Emory U.	243,248	5,129	1,433	226,294	183	6,093	367	3,749
31	GA Institute of Technology all campuses	237,483	129,817	9,240	15,472	18,903	44,213	3	19,835
32	U. TX Austin	235,281	75,780	16,718	44,680	8,897	36,639	95	52,472
33	U. Rochester	231,193	9,243	49,173	156,189	1,720	12,043	0	2,825
34	Northwestern U.	230,593	20,045	7,760	142,440	1,932	23,058	222	35,136
35	U. Chicago	229,102	4,888	8,008	166,618	14,066	32,312	381	2,829
36	U. CA, Davis	221,937	10,146	13,536	119,588	2,589	35,649	20,195	20,234
37	U. FL	221,898	20,584	9,068	103,672	11,729	34,934	21,616	20,295
38	Boston U.	219,054	13,372	5,137	162,145	7,484	22,564	92	8,260

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
39	U. IA	209,865	13,369	574	171,870	6,343	8,891	0	8,818
40	OR Health & Science U.	206,219	6,101	559	186,097	1,037	5,219	123	7,083
41	U. TX Southwestern Medical Ctr. Dallas	200,888	4,689	0	180,774	299	510	29	14,587
42	Case Western Reserve U.	195,525	2,683	310	134,253	4,702	7,003	105	46,469
43	U. Cincinnati all campuses	194,965	6,507	2,537	168,299	2,082	4,798	193	10,549
44	U. IL Chicago	192,825	5,970	3,540	142,320	947	14,531	111	25,406
45	U. VA all campuses	188,121	12,940	3,064	133,740	4,174	16,071	0	18,132
46	U. HI Manoa	187,035	38,937	3,117	57,792	13,821	24,388	9,300	39,680
47	NY U.	181,441	5,983	2,822	151,491	1,097	15,437	65	4,546
48	U. MD College Park	180,943	37,288	9,046	22,344	26,173	34,564	9,525	42,003
49	TX A&M U. all campuses	173,705	21,822	14,095	38,454	11,591	54,899	10,555	22,289
50	Carnegie Mellon U.	172,858	59,850	7,923	19,826	9,351	61,564	0	14,344
51	Mt. Sinai School of Medicine	170,757	0	0	147,665	0	219	0	22,873
52	IN U. all campuses	166,913	5,161	3,933	127,565	1,488	25,476	503	2,787
53	U. UT	161,119	4,214	8,459	117,157	1,137	16,860	232	13,060
54	Yeshiva U.	151,520	684	0	149,636	0	1,200	0	0
55	U. CA, Irvine	150,995	9,735	5,764	106,768	4,453	22,917	85	1,273
56	U. TX M. D. Anderson Cancer Ctr.	150,529	12,052	488	125,326	601	429	0	11,633
57	CO State U.	145,213	12,562	5,548	40,273	6,938	19,953	36,192	23,747
58	Purdue U. all campuses	144,090	21,212	9,818	38,263	8,310	33,422	21,917	11,148
59	SUNY Buffalo all campuses	143,865	15,981	831	95,024	1,646	17,945	252	12,186
60	MI State U.	143,473	5,906	9,286	39,580	4,133	43,763	20,964	19,841
61	U. Miami	141,943	12,992	604	96,839	6,146	13,266	120	11,976
62	U. MD Baltimore	141,221	4	0	127,748	0	0	0	13,469
63	U. KY all campuses	129,887	1,943	0	68,086	36	15,738	5,831	38,253
64	Rutgers, The State U. NJ all campuses	128,655	11,557	4,296	56,535	2,917	37,323	10,905	5,122
65	U. CT all campuses	127,609	8,443	3,459	77,607	2,346	13,441	8,236	14,077
66	U. South FL	126,906	25,380	263	39,888	1,672	9,015	208	50,480
67	U. MA Worcester	126,162	1,903	97	104,328	501	434	85	18,814
68	SUNY Stony Brook all campuses	123,124	7,980	8,125	63,243	2,900	24,229	128	16,519
69	Dartmouth C.	123,109	3,247	946	85,393	2,506	8,329	619	22,069
70	U. of Medicine and Dentistry NJ	121,812	5,289	200	110,990	248	1,267	160	3,658
71	Wake Forest U.	120,075	5,770	0	113,263	161	827	0	54
72	U. NE all campuses	115,833	8,456	3,384	61,294	1,706	15,481	11,636	13,876
73	Wayne State U.	114,700	6,872	3,553	93,199	557	5,861	0	4,658
74	U. NM all campuses	112,299	16,595	8,530	58,801	4,743	16,956	2,373	4,301
75	LA State U. all campuses	112,169	11,604	2,569	64,504	2,051	10,167	8,233	13,041
76	Princeton U.	111,435	20,804	8,138	38,568	8,981	30,653	28	4,263
77	U. TN all campuses	109,357	3,804	24,518	57,422	1,725	10,562	3,306	8,020

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004
(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
78	UT State U.	107,945	45,713	1,352	7,776	31,085	3,329	7,816	10,874
79	U. TX Health Science Ctr. Houston	106,737	3,952	237	96,900	893	528	106	4,121
80	OR State U.	104,276	8,006	5,090	17,647	6,246	27,192	20,454	19,641
81	NC State U.	103,586	12,332	5,477	14,658	2,328	21,986	14,578	32,227
82	Medical U. SC	103,494	6,242	3,809	82,046	0	596	108	10,693
83	FL State U.	102,967	18,575	6,304	22,675	3,034	31,650	1,019	19,710
84	U. TX Medical Branch	102,491	3,802	573	93,795	2,071	911	146	1,193
85	U. KS all campuses	101,920	3,866	3,849	69,267	1,976	14,107	168	8,687
86	Medical C. WI	100,547	1,846	123	95,882	281	202	0	2,213
87	Woods Hole Oceanographic Institution	100,456	15,481	691	720	743	58,168	0	24,653
88	U. GA	96,348	90	13,073	34,249	876	17,060	18,765	12,235
89	Georgetown U.	95,852	18,207	0	73,205	200	2,797	209	1,234
90	VA Polytechnic Institute and State U.	95,669	16,120	6,323	7,740	2,002	20,967	12,761	29,756
91	SUNY Albany	94,712	644	1,031	78,917	505	4,701	109	8,805
92	Tufts U.	92,997	2,522	1,110	64,338	1,278	4,949	15,917	2,883
93	Tulane U.	92,331	0	2,793	55,667	2,097	4,280	532	26,962
94	Thomas Jefferson U.	92,296	2,046	623	87,120	24	1,053	932	498
95	U. CA, Santa Barbara	92,248	25,190	6,865	12,017	4,564	37,932	448	5,232
96	IA State U.	92,235	4,129	5,863	20,790	4,071	20,963	22,855	13,564
97	U. MO-Columbia	90,304	3,231	2,295	40,542	3,443	10,882	25,355	4,556
98	U. TX Health Science Ctr. San Antonio	89,662	3,262	0	83,558	0	686	0	2,156
99	VA Commonwealth U.	89,066	5,042	340	73,614	1,544	2,198	43	6,285
100	Brown U.	84,126	12,003	3,094	48,402	3,804	15,966	0	857
101	Rockefeller U.	82,535	1,009	1,032	79,923	0	571	0	0
102	MS State U.	82,205	25,455	7,579	6,391	6,576	5,385	20,938	9,881
103	U. OK all campuses	81,048	2,501	2,713	50,792	2,162	11,053	423	11,404
104	AZ State U. main campus	79,877	15,157	3,162	19,282	12,340	23,918	993	5,025
105	U. VT	79,015	948	1,187	64,742	985	5,223	4,705	1,225
106	George Washington U.	78,192	7,673	1,287	49,956	2,206	4,068	102	12,900
107	U. DE	76,583	8,655	3,234	20,623	792	14,876	3,247	25,156
108	NM State U. all campuses	76,396	20,758	3,393	5,715	16,843	5,812	6,792	17,083
109	U. AK Fairbanks all campuses	75,269	3,988	1,986	6,418	10,843	22,109	5,330	24,595
110	WA State U.	74,944	8,759	7,634	16,905	553	9,504	18,122	13,467
111	U. SC all campuses	71,856	14,234	4,710	27,850	2,450	10,391	1,264	10,957
112	U. NH	67,917	1,914	873	4,852	10,978	6,089	3,429	39,782
113	U. MA Amherst	65,452	9,904	6,911	12,318	2,964	25,523	5,497	2,335
114	Uniformed Services U. of the Health Sciences	62,408	58,545	0	3,558	116	0	6	183
115	Clemson U.	61,065	7,381	1,369	3,361	1,463	10,866	9,239	27,386
116	WV U.	60,819	4,446	10,309	23,755	1,964	3,954	6,360	10,031

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
117	U. MS all campuses	59,787	14,890	1,794	30,565	1,425	1,213	5,233	4,667
118	MT State U. Bozeman	58,874	4,603	3,232	14,855	6,118	11,380	8,354	10,332
119	U. Dayton	56,647	52,074	611	77	1,213	706	13	1,953
120	KS State U.	56,088	0	0	0	0	0	0	56,088
121	Drexel U.	54,963	13,099	1,518	23,863	2,074	6,645	148	7,616
122	U. Louisville	54,476	4,149	714	41,463	1,653	2,569	146	3,782
123	U. AR for Medical Sciences	53,249	0	6	51,637	0	561	405	640
124	U. CA, Santa Cruz	53,196	5,512	3,206	13,820	9,178	14,386	882	6,212
125	Rush U.	51,706	949	0	50,578	0	138	0	41
126	Rice U.	51,157	8,884	3,140	5,054	2,604	20,114	359	11,002
127	U. NV, Reno	50,787	2,121	12,543	20,603	1,338	6,703	3,409	4,070
128	Temple U.	50,456	1,952	490	42,367	120	2,801	0	2,726
129	Auburn U. all campuses	49,565	6,869	2,747	12,342	3,455	5,346	10,572	8,234
130	U. of Notre Dame	48,650	9,166	6,376	15,158	757	14,180	325	2,688
131	U. RI	48,590	7,386	167	10,392	1,642	10,528	6,016	12,459
132	U. ID	48,565	5,175	1,655	12,971	2,385	6,810	11,583	7,986
133	ND State U. all campuses	45,375	17,502	111	5,804	15	5,478	9,297	7,168
134	U. Central FL	44,020	20,634	2,932	4,984	5,613	5,138	73	4,646
135	U. OR	43,634	3,351	2,828	23,697	334	10,971	141	2,312
136	OK State U. all campuses	43,345	14,132	1,115	5,635	750	7,245	8,653	5,815
137	Syracuse U. all campuses	43,162	4,820	1,484	7,235	1,586	8,839	367	18,831
138	U. CA, Riverside	40,981	2,999	2,511	12,225	1,499	11,258	5,892	4,597
139	Charles R. Drew U. of Medicine and Science	40,430	39	3,272	37,119	0	0	0	0
140	Howard U.	40,086	2,225	1,549	25,532	1,423	2,603	30	6,724
141	George Mason U.	39,758	14,569	90	2,576	9,217	5,639	870	6,797
142	U. AL Huntsville, The	39,607	11,146	63	430	19,647	1,590	3	6,728
143	Brandeis U.	38,041	649	1,265	26,999	734	4,211	0	4,183
144	U. MD Baltimore County	37,548	2,858	409	8,827	19,504	4,070	175	1,705
145	St. Louis U. all campuses	36,989 e	340 e	2 e	35,279 e	57 e	615 e	41 e	655 e
146	Rensselaer Polytechnic Institute	36,651	6,207	4,484	4,330	1,790	15,351	194	4,295
147	U. ME	36,513	7,822	784	2,527	685	10,760	4,129	9,806
148	U. ND all campuses	36,349	2,713	10,942	8,733	3,722	2,343	5,126	2,770
149	Medical C. GA	35,841	49	233	35,018	405	41	9	86
150	U. MT, The	34,478	1,535	1,325	13,305	3,668	5,902	4,418	4,325
151	U. Houston	34,468	1,842	2,748	19,078	2,668	5,696	0	2,436
152	U. Southern MS	32,075	8,116	811	3,574	3,411	4,008	3,362	8,793
153	Hampton U.	31,443	310	684	2,861	24,472	1,741	0	1,375
154	U. AR main campus	31,088	3,599	1,149	4,123	171	5,630	10,722	5,694
155	NJ Institute of Technology	30,995	4,957	686	666	1,638	4,940	60	18,048

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
156	Northeastern U.	30,659	1,539	163	6,533	1,508	16,845	0	4,071
157	TX A&M U. System Health Science Ctr.	30,283	1,998	144	26,557	184	816	164	420
158	San Diego State U.	30,092	6,612	285	16,293	1,303	4,741	7	851
159	Loyola U. Chicago	29,150	189	0	27,456	145	562	0	798
160	Jackson State U.	28,806	4,013	591	14,459	436	3,154	176	5,977
161	Loma Linda U.	26,631	7,360	290	13,373	4,463	0	0	1,145
162	Desert Research Institute	26,235	4,530	9,182	9	721	4,994	378	6,421
163	Meharry Medical C.	26,159	613	0	25,388	0	158	0	0
164	C. of William and Mary all campuses	26,049	5,984	1,214	558	660	7,413	359	9,861
165	GA State U.	25,845	30	386	12,134	917	5,739	597	6,042
166	U. AL, The	25,329	1,621	4,373	5,602	2,447	8,975	126	2,185
167	NY Medical C.	25,103	454	0	24,551	0	98	0	0
168	FL A&M U.	24,994	2,216	78	11,139	1,114	1,250	4,608	4,589
169	U. MD Biotechnology Institute	24,059	667	423	17,114	0	2,995	487	2,373
170	Morehouse School of Medicine	23,331	158	118	21,276	1,395	384	0	0
171	TX Tech U.	23,181	6,623	2,442	1,624	1,803	4,003	2,561	4,125
172	SUNY Upstate Medical U.	22,650	0	0	0	0	206	0	22,444
173	Old Dominion U.	21,377	7,509	1,532	270	6,578	4,424	0	1,064
174	OH U. all campuses	20,831	1,142	306	3,817	754	3,574	165	11,073
175	Wright State U. all campuses	20,599	9,184	533	8,866	451	1,212	25	328
176	San Jose State U.	20,363	865	211	1,514	10,682	3,904	0	3,187
177	U. MO-Rolla	20,218	4,351	3,065	421	2,878	4,689	141	4,673
178	CUNY City C.	19,711	2,419	353	7,222	2,182	4,430	76	3,029
179	Stevens Institute of Technology	19,473	15,296	1,083	473	231	2,030	0	360
180	Lehigh U.	19,400	5,217	2,436	2,002	12	8,941	0	792
181	Catholic U. America, The	18,927	641	10,388	2,219	3,414	1,402	0	863
182	CUNY Hunter C.	18,836	427	1,049	14,692	40	1,912	0	716
183	MI Technological U.	18,735	4,050	191	159	506	4,475	1,482	7,872
184	U. South AL	17,832	357	991	239	23	647	37	15,538
185	Brigham Young U. all campuses	17,129	4,636	2,365	4,011	856	3,970	444	847
186	Marshall U.	17,104	3,534	0	4,258	1,354	1,545	473	5,940
187	U. TX El Paso	16,900	2,030	1,332	6,211	1,833	4,314	0	1,180
188	U. MA Lowell	16,655	5,554	519	4,922	886	1,941	0	2,833
189	CO School of Mines	16,550	2,943	3,619	962	4,173	3,400	1	1,452
190	U. LA Lafayette	15,850	404	834	9,233	242	560	12	4,565
191	U.S. Air Force Academy	15,739	15,228	0	0	140	371	0	0
192	U. TX Dallas	15,733	1,903	309	4,769	2,554	4,844	34	1,320
193	U. MO-Kansas City	15,696	643	160	13,289	24	1,112	0	468
194	Southern IL U. Carbondale	15,557	1,343	432	7,408	174	2,671	2,117	1,412
195	SD State U.	15,127	229	295	892	453	3,616	6,423	3,219

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
196	IL Institute of Technology	14,903	1,933	2,083	7,202	114	2,796	130	645
197	FL Atlantic U.	14,662	4,734	109	4,841	1,007	2,213	13	1,745
198	Medical C. OH	14,591	0	0	14,591	0	0	0	0
199	U. Memphis, The	14,078	1,192	257	6,905	321	2,604	21	2,778
200	NM Institute of Mining and Technology	13,853	8,253	2,707	151	213	1,712	419	398
201	U. MD Ctr. for Environmental Science	13,824	232	0	0	310	2,777	236	10,269
202	U. NC Charlotte	13,816	6,402	236	2,703	76	3,948	0	451
203	U. WI Milwaukee	13,670	680	546	5,889	104	3,520	119	2,812
204	NC Agricultural and Technical State U.	13,487	2,796	387	521	1,746	2,053	3,717	2,267
205	Portland State U.	13,276 e	344 e	859 e	3,893 e	469 e	3,509 e	432 e	3,770 e
206	U. North TX Health Science Ctr. Ft. Worth	13,259	7	241	11,296	111	557	127	920
207	U. Toledo	13,229	1,349	527	1,919	4,264	1,408	1,969	1,793
208	Clark Atlanta U.	13,075	2,444	2,592	3,703	1,404	2,134	71	727
209	U. SD	12,849	113	15	9,877	0	2,374	137	333
210	Northern AZ U.	12,754	282	805	2,405	60	2,837	1,040	5,325
211	Rochester Institute of Technology	12,415	5,332	531	1,282	2,616	1,502	145	1,007
212	Albany Medical C.	11,849	351	0	11,420	0	78	0	0
213	Wichita State U.	11,796	279	93	2,049	335	1,868	0	7,172
214	U. TX San Antonio	11,644	3,072	0	6,279	131	822	0	1,340
215	U. of the VI	11,598	52	5,491	1,774	60	1,084	2,275	802
216	TN State U.	11,277	764	61	2,462	3,502	1,120	3,312	56
217	U. Tulsa	11,240	1,706	3,346	525	132	2,680	0	2,851
218	U. TX Arlington	10,498	2,506	1,042	910	119	3,211	0	2,710
219	SUNY Binghamton	10,414	1,638	767	3,523	38	1,513	77	2,858
220	U. Akron all campuses	10,284	1,172	398	1,343	1,660	4,322	331	1,058
221	U. NC Wilmington	9,951	631	0	1,921	20	1,127	374	5,878
222	U. Denver	9,839	2,246	47	4,632	997	1,216	36	665
223	Mercer U. all campuses	9,613	7,966	0	1,624	12	2	2	7
224	East Carolina U.	9,399	1,307	195	6,160	22	1,258	90	367
225	U. GU	9,205	0	1,030	2,749	0	90	3,875	1,461
226	U. MA Dartmouth	9,199	1,563	23	131	1,573	2,100	959	2,850
227	Ponce School of Medicine	9,179	0	0	9,179	0	0	0	0
228	Kent State U. all campuses	9,093	1,609	581	1,988	347	3,066	0	1,502
229	Tuskegee U.	8,904	150	122	3,399	512	27	2,927	1,767
230	Universidad Central del Caribe	8,498	0	0	7,901	0	0	0	597
231	Worcester Polytechnic Institute	8,489	1,665	1,252	577	202	3,572	43	1,178
232	ID State U.	8,416	968	1,865	2,606	642	1,265	90	980
233	SD School of Mines and Technology	8,366	4,113	171	0	808	2,661	96	517
234	CA State U. Long Beach	8,351	3,356	0	2,040	0	1,381	6	1,568

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
235	Western MI U.	8,313	556	1,138	1,444	346	3,505	69	1,255
236	CA State U. Los Angeles	8,094	571	44	3,161	1,329	2,836	0	153
237	U. PR Rio Piedras Campus	8,093	43	0	4,970	808	2,262	0	10
238	Prairie View A&M U.	7,965	1,338	668	549	1,657	224	3,476	53
239	Rosalind Franklin U. of Medicine and Science	7,843	142	0	7,295	174	142	90	0
240	Boise State U.	7,642	1,882	286	1,825	124	1,565	368	1,592
241	Alcorn State U.	7,622	0	1,179	502	0	0	5,566	375
242	TX Tech U. Health Science Ctr.	7,604	0	0	6,734	0	0	0	870
243	U. PR Mayaguez Campus	7,539	1,033	560	1,135	907	1,731	267	1,906
244	Morgan State U.	7,227	1,030	316	2,617	1,912	530	0	822
245	Northern IL U.	6,824	86	72	63	0	2,814	0	3,789
246	Southern Methodist U.	6,752	2,324	1,125	1,662	189	1,325	11	116
247	CA State U. Northridge	6,521	629	69	3,158	602	1,448	0	615
248	Clarkson U.	6,434	1,199	705	514	424	2,515	0	1,077
249	Cleveland State U.	6,380	0	761	846	3,915	184	11	663
250	Teachers C. Columbia U.	6,256	0	90	3,471	0	1,035	0	1,660
251	Norfolk State U.	6,054	377	0	0	2,633	1,340	0	1,704
252	Marquette U.	6,046	327	93	3,040	610	888	80	1,008
253	CUNY Queens C.	5,820	327	2,737	1,532	12	870	0	342
254	TX A&M U. Corpus Christi	5,685	473	34	31	375	3,097	71	1,604
255	VA State U.	5,655	420	2,161	225	57	57	1,707	1,028
256	FL Institute of Technology	5,575	310	137	751	717	1,284	10	2,366
257	Oakland U.	5,559	1,053	0	2,858	56	1,049	17	526
258	U. North TX	5,499	2,644	137	369	34	1,999	124	192
259	U. MA Boston	5,412	416	111	2,478	7	1,354	10	1,036
260	Wesleyan U.	5,388	87	0	3,840	272	1,142	39	8
261	U.S. Naval Academy	5,341	3,992	184	0	320	400	0	445
262	U. West FL	5,332	1,773	704	216	911	210	180	1,338
263	Bowling Green State U. all campuses	5,318	55	0	2,663	628	1,852	21	99
264	Xavier U. LA	5,226	198	582	3,422	29	325	50	620
265	Tarleton State U.	5,208	0	0	0	0	229	4,357	622
266	Embry-Riddle Aeronautical U.	5,179	932	82	52	1,164	588	0	2,361
267	CA State U. San Bernardino	5,127	69	673	0	153	441	109	3,682
268	Fisk U.	5,000	1,000	2,000	0	2,000	0	0	0
269	Air Force Institute of Technology	4,664	4,545	119	0	0	0	0	0
270	Polytechnic U.	4,660	600	0	0	828	2,906	0	326
271	U. MO-St. Louis	4,618	297	0	2,054	28	1,657	50	532
272	Clark U.	4,475 e	93 e	168 e	1,045 e	1,968 e	926 e	0 e	275 e

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
273	East TN State U.	4,412	7	0	4,076	47	104	15	163
274	Western KY U.	4,400	75	227	701	1,195	858	461	883
275	Rowan U.	4,355	151	543	918	1,175	1,169	0	399
276	U. HI Hilo	4,217	0	0	120	7	757	500	2,833
277	CA State U. Dominguez Hills	4,179	0	0	2,905	7	219	0	1,048
278	CA State Polytechnic U. Pomona	4,059	0	0	3,378	305	57	284	35
279	MT Tech of the U. MT	4,059	150	1,006	255	9	461	137	2,041
280	CA State U. Fullerton	3,979	0	105	172	1	3,701	0	0
281	TX A&M U. Kingsville	3,832	116	176	1,735	147	807	694	157
282	CA State U. Fresno	3,750	0	0	1,921	0	89	498	1,242
283	Wellesley C.	3,708	993	0	1,481	215	806	50	163
284	Southern U. and A&M C. all campuses	3,581	442	112	777	76	63	322	1,789
285	Langston U.	3,578	0	0	0	0	0	3,578	0
286	DePaul U.	3,539	0	0	2,532	3	673	15	316
287	TX State U. San Marcos	3,536	0	0	288	57	92	7	3,092
288	U. DC	3,492	0	0	2,612	0	0	801	79
289	Duquesne U.	3,479	0	269	1,913	0	898	116	283
290	U. AR Pine Bluff	3,455	60	0	197	0	0	2,907	291
291	Ball State U.	3,441	0	0	32	231	1,138	51	1,989
292	CUNY Graduate Ctr.	3,324	0	0	1,252	0	1,933	0	139
293	C. Charleston	3,321	25	0	429	989	1,034	130	714
294	KY State U.	3,298	0	0	144	0	0	3,148	6
295	U. NC Greensboro	3,267	0	0	1,048	0	1,093	141	985
296	U. PR Humacao U. C.	3,201	108	0	1,151	61	1,860	0	21
297	Northeastern OH Universities C. of Medicine	2,964	422	0	2,402	0	99	0	41
298	TX Christian U.	2,961	0	14	2,395	23	316	2	211
299	CUNY Herbert H. Lehman C.	2,936	24	55	2,370	0	420	67	0
300	James Madison U.	2,843	7	105	290	89	991	99	1,262
301	Central MI U.	2,707	2,230	30	0	0	156	15	276
302	IL State U.	2,650	0	0	785	65	1,243	171	386
303	CA State Polytechnic U. San Luis Obispo	2,616	102	0	33	328	367	259	1,527
304	St. Joseph's U.	2,612	0	0	38	0	558	0	2,016
305	U. AR Little Rock	2,586	167	200	403	836	514	0	466
306	U. TX-Pan American	2,578	186	9	535	19	506	48	1,275
307	TN Technological U.	2,564	203	490	0	440	554	32	845
308	CUNY Brooklyn C.	2,559	37	0	1,679	0	727	0	116
309	Ft. Valley State U.	2,558	0	0	0	0	0	2,558	0
310	CA State U. Monterey Bay	2,548	180	0	0	1,631	102	0	635
311	Albany State U.	2,547	158	0	515	63	428	203	1,180

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
312	Maharishi U. of Management	2,541 e	0 e	0 e	2,531 e	0 e	0 e	0 e	10 e
313	Spelman C.	2,419	0	0	1,854	67	498	0	0
314	Eastern MI U.	2,375	860	0	151	0	1,138	0	226
315	West TX A&M U.	2,205	0	193	0	0	1,641	314	57
316	Central WA U.	2,200	255	0	0	91	1,199	0	655
317	Savannah State U.	2,094	122	304	437	35	543	0	653
318	New England C. of Optometry	1,958	0	0	1,958	0	0	0	0
319	Western WA U.	1,950	0	0	170	0	1,405	12	363
320	Christopher Newport U.	1,904	0	28	0	1,682	181	0	13
321	Nova Southeastern U.	1,884	0	0	486	0	56	0	1,342
322	Bowie State U.	1,883	0	0	178	1,500	0	5	200
323	Southwest MO State U.	1,863	1,079	0	164	0	273	19	328
324	SUNY C. of Optometry	1,856	0	0	1,797	0	59	0	0
325	West Chester U. PA	1,833	0	0	0	20	1,810	3	0
326	NM Highlands U.	1,810	0	0	1,158	569	83	0	0
327	Ithaca C.	1,807	0	0	125	0	1,522	8	152
328	Mt. Holyoke C.	1,800	0	159	128	269	1,172	0	72
329	Gallaudet U.	1,747	0	0	584	0	0	0	1,163
330	GA Southern U.	1,746	0	0	737	33	332	354	290
331	U. Redlands	1,711	1,609	0	0	13	81	0	8
332	U. of the Pacific	1,700	0	0	583	0	741	0	376
333	CUNY York C.	1,669	0	0	1,536	133	0	0	0
334	Middle TN State U.	1,651	0	230	30	142	1,249	0	0
335	Western Carolina U.	1,633	0	825	0	0	45	41	722
336	CUNY C. Staten Island	1,624	13	79	904	33	520	9	66
337	Smith C.	1,602	0	12	440	55	1,019	22	54
338	Hope C.	1,576	0	0	0	3	1,518	0	55
339	Carleton C.	1,575	0	0	147	5	1,361	22	40
340	Lincoln U. (Jefferson City, MO)	1,552	0	0	0	0	0	1,552	0
341	Grambling State U.	1,522	48	53	1,159	262	0	0	0
342	Alfred U. all campuses	1,494	107	445	0	0	340	0	602
343	Lamar U.	1,494	0	6	0	14	227	0	1,247
344	U. North FL	1,493	248	0	947	0	176	0	122
345	American U.	1,456	285	41	327	538	62	0	203
346	Swarthmore C.	1,449	0	207	129	38	654	0	421
347	Indiana U. PA all campuses	1,446	944	0	0	0	111	0	391
348	PA C. of Optometry	1,407	0	0	1,407	0	0	0	0
349	WV State C.	1,403	0	0	222	100	43	1,028	10
350	Youngstown State U.	1,385	0	292	69	53	491	0	480

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
351	U. Scranton	1,374	150	1,143	81	0	0	0	0
352	Baylor U.	1,372	211	2	287	0	298	236	338
353	Barnard C.	1,369 e	0 e	0 e	0 e	5 e	509 e	0 e	855 e
354	SUNY C. Oswego	1,342	43	0	963	0	145	0	191
355	U. Northern CO	1,328	0	0	409	5	645	38	231
356	OR Institute of Technology	1,322	0	657	0	103	0	0	562
357	U. WI Green Bay	1,293	0	13	0	510	76	0	694
358	U. LA Monroe	1,271	10	0	1,208	0	51	0	2
359	SUNY C. Old Westbury	1,258	0	142	991	0	10	0	115
360	Southeastern LA U.	1,257	0	22	13	0	210	0	1,012
361	Seton Hall U.	1,233	0	0	990	0	0	0	243
362	U. WI La Crosse	1,221	8	0	179	12	369	73	580
363	Furman U.	1,197	0	0	484	123	307	0	283
364	Lafayette C.	1,187	56	0	29	47	612	16	427
365	Murray State U.	1,185	4	53	250	28	458	107	285
366	Hampshire C.	1,181	0	412	0	0	580	0	189
367	TX Woman's U.	1,175	0	0	963	0	9	33	170
368	Bowdoin C.	1,151	0	0	105	0	852	6	188
369	Morehead State U.	1,137	0	0	350	0	290	0	497
370	Amherst C.	1,126	36	0	153	0	823	0	114
371	NY Institute of Technology all campuses	1,110	201	634	150	0	125	0	0
372	Bryn Mawr C.	1,065	0	0	381	0	676	0	8
373	Shaw U.	1,033	0	0	619	114	0	0	300
374	Elizabeth City State U.	1,032	378	0	127	351	20	0	156
375	Benedict C.	1,020	0	0	988	0	32	0	0
376	St. Cloud State U.	972	135	0	193	19	274	56	295
377	Macalester C.	959	0	0	69	5	554	37	294
378	Bucknell U.	955	0	0	129	37	513	0	276
379	Philadelphia C. of Osteopathic Medicine	951	0	0	951	0	0	0	0
380	Claremont Graduate U.	945	0	0	351	0	259	0	335
381	Pomona C.	940	0	0	272	509	132	0	27
382	Black Hills State U.	934	0	0	545	0	67	25	297
383	Fordham U.	929	0	0	655	0	185	79	10
384	Hamilton C. (Clinton, NY)	901	0	11	399	0	488	0	3
385	U. Richmond	900	36	47	30	0	629	12	146
386	SUNY C. Plattsburgh	896	0	0	224	155	395	35	87
387	FL Gulf Coast U.	884	0	470	0	0	55	44	315
388	U. WI Stevens Point	884	37	0	38	0	125	235	449
389	SUNY C. Buffalo	883	42	0	744	0	14	0	83
390	U. WI Oshkosh	879	0	0	56	0	648	72	103

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
391	U.S. Coast Guard Academy	866	0	1	0	0	0	0	865
392	Midwestern U. (Chicago, IL)	857	0	0	857	0	0	0	0
393	U. WI Stout	838	14	0	0	0	243	0	581
394	Southern IL U. Edwardsville	829	88	98	82	0	319	9	233
395	Franklin & Marshall C.	815	49	0	76	10	680	0	0
396	Trinity U.	805	286	0	47	3	462	0	7
397	Coastal Carolina U.	785	52	26	0	230	125	7	345
398	Juniata C.	778	0	0	309	0	76	0	393
399	Colgate U.	777	0	0	68	3	706	0	0
400	IN State U. all campuses	747	0	0	281	60	371	0	35
401	Pittsburg State U.	744	0	0	22	23	96	0	603
402	U. WI Superior	743	0	0	0	0	93	0	650
403	Stephen F. Austin State U.	740	30	129	0	0	21	426	134
404	Rose-Hulman Institute of Technology	726	555	0	12	0	159	0	0
405	Bethune Cookman C.	723	0	0	0	0	723	0	0
406	U. WI Eau Claire	721	0	0	14	9	444	0	254
407	CO State U. Pueblo	714	46	0	558	0	89	0	21
408	Dickinson C.	708	0	116	0	0	592	0	0
409	U. San Francisco	706	0	0	426	0	228	0	52
410	Reed C.	702	238	75	156	0	231	0	2
411	U. Hartford	697	0	0	138	513	46	0	0
412	Trinity C. (Hartford, CT)	686	0	0	328	26	290	0	42
413	Bates C.	679	0	0	267	0	412	0	0
414	Bradley U.	671	0	77	32	0	541	17	4
415	Union C. (Schenectady, NY)	664	0	57	0	0	285	0	322
416	Milwaukee School of Engineering	662	0	0	293	20	349	0	0
417	Drake U.	647	0	0	15	1	553	0	78
418	U. Northern IA	646	0	0	0	0	26	264	356
419	Pace U. all campuses	644	0	54	122	0	49	0	419
420	State U. West GA	623	0	0	20	0	603	0	0
421	Hendrix C.	615	0	0	195	208	212	0	0
422	SUNY C. Geneseo	588	27	278	130	0	101	52	0
423	Southern OR U.	587	0	0	0	0	431	156	0
424	Hartwick C.	581	0	578	0	0	3	0	0
425	SUNY C. Brockport	574	0	0	10	0	217	244	103
426	AR State U. main campus	569	0	0	0	0	270	71	228
427	Southern U. New Orleans	556	0	0	143	0	413	0	0
428	CUNY Medgar Evers C.	555	0	0	79	476	0	0	0
429	U. WI Parkside	548	0	0	294	9	218	12	15

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004
(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
430	Whitman C.	544	0	7	0	5	325	54	153
431	C. of the Holy Cross	538	0	0	15	100	423	0	0
432	Gustavus Adolphus C.	533	0	0	0	0	499	0	34
433	Calvin C.	530	0	0	0	9	291	0	230
434	Lincoln U. (Lincoln University, PA)	526	168	39	197	0	0	0	122
435	Loyola Marymount U.	508	0	0	104	0	404	0	0
436	Augustana C. (Rock Island, IL)	504	0	0	101	0	403	0	0
437	Augsburg C.	493	0	0	0	32	461	0	0
438	MS Valley State U.	493	0	0	30	23	86	0	354
439	U. IL Springfield	493	0	0	0	0	2	0	491
440	Mt. St. Mary's C. (Los Angeles, CA)	492	0	0	482	0	10	0	0
441	Allegheny C.	476	0	0	0	0	476	0	0
442	Northern KY U.	474	0	0	182	29	63	0	200
443	McNeese State U.	451	0	0	0	0	0	0	451
444	U. Houston-Downtown	449	0	0	63	8	378	0	0
445	Chapman U.	439	0	0	0	0	347	0	92
446	Rider U.	428	0	0	121	0	294	0	13
447	St. Mary's U. (San Antonio, TX)	414	184	0	0	0	0	0	230
448	U. of Health Sciences	407	42	0	365	0	0	0	0
449	Valparaiso U.	404	0	132	0	57	194	6	15
450	U. San Diego	399	6	50	222	108	0	0	13
451	Colby C.	373	0	0	24	0	349	0	0
452	U. Puget Sound	370	0	0	209	117	44	0	0
453	Western IL U.	369	0	0	30	0	40	297	2
454	Roanoke C.	364	0	35	30	195	92	10	2
455	Skidmore C.	364	0	0	0	0	361	0	3
456	Evergreen State C.	354	0	0	0	0	334	0	20
457	Roger Williams U. Bristol	352	0	0	66	6	33	0	247
458	Dillard U.	351	167	0	0	0	50	0	134
459	St. Olaf C.	347	0	0	54	0	288	0	5
460	Kirksville C. of Osteopathic Medicine	333	21	0	312	0	0	0	0
461	Southeastern OK State U.	320	0	0	269	0	51	0	0
462	Southern CT State U.	312	0	0	0	0	0	214	98
463	Western U. of Health Sciences	312	0	0	165	0	0	10	137
464	Kennesaw State U.	311	0	0	292	0	0	19	0
465	Towson U.	302	0	0	96	7	162	37	0
466	Kettering U.	298	0	0	0	78	220	0	0
467	Oberlin C.	291	0	13	18	23	225	0	12
468	Eastern WA U.	288	170	91	0	0	6	0	21

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
469	C. Wooster	281	0	0	32	1	248	0	0
470	Augustana C. (Sioux Falls, SD)	273	0	0	72	38	26	65	72
471	Appalachian State U.	272	0	0	0	2	55	87	128
472	MA C. of Pharmacy and Health Sciences	270	0	0	270	0	0	0	0
473	Fairfield U.	267	0	61	78	0	44	0	84
474	U. NC Asheville	265	0	21	0	0	167	13	64
475	U. WI Whitewater	264	0	0	0	48	216	0	0
476	Sul Ross State U.	261	38	0	0	0	0	103	120
477	NJ City U.	260	260	0	0	0	0	0	0
478	Clafin U.	255	0	0	221	0	0	0	34
479	Kalamazoo C.	254	0	0	78	0	176	0	0
480	Andrews U.	249	0	0	0	0	149	100	0
481	SUNY C. Cortland	245	0	0	23	0	97	31	94
482	Central CT State U.	239	0	0	84	0	58	0	97
483	U. Houston-Clear Lake	238	0	0	81	37	79	36	5
484	Albany C. of Pharmacy	235	0	0	235	0	0	0	0
485	Sonoma State U.	234	0	0	42	0	135	57	0
486	CUNY Baruch C.	232	0	0	1	0	231	0	0
487	Jarvis Christian C.	232	0	0	45	0	187	0	0
488	Lake Forest C.	228	0	0	0	0	223	0	5
489	Grinnell C.	225	0	0	0	0	225	0	0
490	Denison U.	224	0	0	0	31	104	0	89
491	Pitzer C.	223	0	0	223	0	0	0	0
492	Grand Valley State U.	221	0	0	0	2	2	15	202
493	Lawrence Technological U.	219	0	0	0	48	171	0	0
494	Providence C.	214	0	0	0	0	47	0	167
495	Iona C.	213	0	0	0	5	71	0	137
496	Simmons C.	208	0	0	33	0	175	0	0
497	U. of the Sciences Philadelphia	207	0	0	0	0	10	33	164
498	U. CA Office of the President	203	0	0	0	0	52	0	151
499	New C. FL	199	0	0	48	0	5	0	146
500	John Carroll U.	197	0	0	0	59	73	0	65
501	U. Portland	183	0	0	29	0	154	0	0
502	CUNY John Jay C. of Criminal Justice	177	0	0	0	0	143	0	34
503	Eastern KY U.	175	27	0	0	16	37	17	78
504	Wiley C.	169	145	0	0	0	0	0	24
505	Wabash C.	166	0	0	0	0	166	0	0
506	Fayetteville State U.	161	98	38	0	0	0	0	25
507	U. Detroit Mercy	158 e	0 e	0 e	15 e	0 e	139 e	0 e	4 e

TABLE 70. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by federal agency: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
508	Bluefield State C.	156	0	0	156	0	0	0	0
509	U. of St. Thomas (St. Paul, MN)	154	0	0	28	22	84	6	14
510	St. Mary's C. MD	151	9	0	0	0	64	0	78
511	Ft. Lewis C.	150	0	16	75	17	0	11	31
512	Abilene Christian U.	135	0	124	11	0	0	0	0
513	Lewis and Clark C.	129	0	0	69	0	0	0	60
514	SUNY Fredonia	116	0	0	0	0	55	0	61
515	U. WI River Falls	106	0	0	0	0	80	26	0
516	Wilkes U.	105	0	0	0	0	105	0	0
517	SUNY Purchase C.	100	0	0	0	49	0	0	51
518	Nicholls State U.	98	0	0	0	0	13	38	47
519	Seattle U.	95	0	0	0	0	95	0	0
520	Willamette U.	94	0	0	0	0	94	0	0
521	Radford U.	90	0	0	0	7	60	2	21
522	Truman State U.	84	0	0	0	0	82	2	0
523	Des Moines U. Osteopathic Medical Ctr.	78 e	0 e	0 e	78 e	0 e	0 e	0 e	0 e
524	U. Central OK	71	0	0	0	22	1	0	48
525	Eastern OR U.	64	0	0	0	0	64	0	0
526	La Salle U.	57	57	0	0	0	0	0	0
527	TX A&M U. Commerce	54	0	44	0	0	0	0	10
528	U. Findlay, The	40	0	0	4	0	0	0	36
529	Bridgewater State C.	36	0	0	0	0	10	0	26
530	National U. of Health Sciences	31	0	0	31	0	0	0	0
531	Northeastern IL U.	17	0	0	0	0	12	5	0
532	Saginaw Valley State U.	10	0	0	0	10	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0

e = estimated; DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

^a Includes all reported agencies other than the six listed here.

NOTES: Institutions that are not listed in this table did not provide federally financed R&D expenditures by federal agency. Agency detail may not add to total federal expenditures because some institutions were unable to provide complete agency data. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	25,737,149	932,649	1,510,246	15,720,827	274,816	2,374,969	574,953	656,720	228,390	3,448,395
1	U. WA	625,218	930	71,685	424,433	3,868	32,044	8,359	24,775	0	59,124
2	Stanford U.	541,667	16,413	12,383	296,305	5,088	81,910	6,864	4,217	0	118,487
3	U. MI all campuses	521,339	4,041	4,886	307,794	2,950	26,627	9,649	49,887	44	115,461
4	U. CA, San Diego	465,629	65,816	79,643	236,203	2,463	31,947	5,889	4,441	0	39,227
5	U. CA, Los Angeles	461,145	12,717	12,681	330,141	4,148	43,093	8,990	7,426	2,301	39,648
6	U. PA	435,343	6,096	128	359,857	2,642	23,112	4,889	17,765	3,446	17,408
7	U. WI Madison	434,423	10,607	43,331	237,807	3,043	35,815	22,945	19,753	0	61,122
8	MA Institute of Technology	427,552	28,050	24,499	114,695	3,772	102,417	1,380	1,898	6,554	144,287
9	U. CA, San Francisco	418,944	0	0	396,729	0	22,215	0	0	0	0
10	U. CO all campuses	414,986	6,475	79,182	228,915	2,307	51,571	8,629	7,919	1,506	28,482
11	Columbia U. in the City of NY	406,576	8,879	52,206	279,442	1,133	32,918	3,756	6,015	1,495	20,732
12	Harvard U.	399,764	1,016	13,775	313,278	2,223	38,678	7,769	8,076	0	14,949
13	U. Pittsburgh all campuses	394,444	2,828	620	338,420	1,612	17,663	6,997	3,939	9,156	13,209
14	Washington U. St. Louis	371,043	3,897	2,487	339,307	455	10,189	3,030	3,348	0	8,330
15	PA State U. all campuses	347,996	25,968	22,123	91,336	5,466	41,873	11,985	9,852	1,624	137,769
16	Duke U.	347,896	4,276	6,757	278,054	1,606	15,267	1,209	19,525	0	21,202
17	Cornell U. all campuses	339,107	15,722	3,184	209,798	2,589	56,657	2,462	7,247	0	41,448
18	Yale U.	330,837	4,193	2,949	291,471	969	16,383	5,666	979	0	8,227
19	Baylor C. of Medicine	312,669	0	0	312,669	0	0	0	0	0	0
20	U. Southern CA	312,589	80,199	14,623	161,464	3,065	6,303	3,379	4,397	715	38,444
21	U. MN all campuses	308,369	10,269	7,028	221,414	4,160	19,610	8,830	7,956	0	29,102
22	U. NC Chapel Hill	304,204	5,927	12,793	238,750	1,405	15,909	5,359	24,061	0	0
23	OH State U. all campuses	284,675	6,523	7,192	167,498	4,543	20,759	5,020	23,454	1,407	48,279
24	U. AZ	283,956	4,516	7,401	150,809	3,821	74,058	2,960	9,161	0	31,230
25	U. IL Urbana-Champaign	275,896	75,934	16,595	58,990	2,584	34,848	8,754	6,155	2,338	69,698
26	U. CA, Berkeley	268,830	1,724	4,907	90,288	5,676	75,959	7,944	6,724	4,732	70,876
27	U. AL Birmingham, The	261,664	728	0	242,437	382	2,184	6,920	904	0	8,109
28	Vanderbilt U.	261,484	151	155	211,056	892	11,132	7,655	3,834	477	26,132
29	CA Institute of Technology	244,187	12,177	11,340	42,498	921	135,480	0	1,662	3,173	36,936
30	Emory U.	243,248	0	76	232,355	482	7,728	2,163	444	0	0
31	GA Institute of Technology all campuses	237,483	39,462	7,133	8,149	2,234	15,064	1,833	2,812	818	159,978
32	U. TX Austin	235,281	25,778	12,434	33,646	10,608	55,000	6,931	10,070	3,631	77,183
33	U. Rochester	231,193	3,266	1,007	152,592	347	9,926	10,461	550	1,174	51,870
34	Northwestern U.	230,593	2,560	733	156,686	1,237	20,551	3,312	3,005	3,019	39,490
35	U. Chicago	229,102	8,403	4,748	164,749	4,382	37,518	5,926	3,256	0	120
36	U. CA, Davis	221,937	2,264	10,397	167,676	2,139	14,688	797	2,191	1,001	20,784
37	U. FL	221,898	2,818	5,121	133,266	2,919	24,770	7,871	1,745	0	43,388
38	Boston U.	219,054	2,573	3,452	146,767	1,723	23,839	6,601	578	12,229	21,292

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
39	U. IA	209,865	651	756	173,775	2,045	13,064	5,056	920	3	13,595
40	OR Health & Science U.	206,219	16,007	0	180,295	0	0	9,917	0	0	0
41	U. TX Southwestern Medical Ctr. Dallas	200,888	0	0	200,888	0	0	0	0	0	0
42	Case Western Reserve U.	195,525	221	738	158,535	437	7,635	632	1,374	0	25,953
43	U. Cincinnati all campuses	194,965	0	114	176,816	156	3,145	190	1,076	11	13,457
44	U. IL Chicago	192,825	5,875	1,697	148,208	3,240	10,035	4,154	6,697	3,593	9,326
45	U. VA all campuses	188,121	6,472	3,473	129,388	709	15,063	6,430	1,158	606	24,822
46	U. HI Manoa	187,035	18,110	44,615	71,092	44	20,193	4,079	5,483	15,910	7,509
47	NY U.	181,441	6,342	83	143,913	6,603	6,523	12,179	4,567	1,231	0
48	U. MD College Park	180,943	16,293	9,607	25,470	2,417	41,245	4,634	32,131	0	49,146
49	TX A&M U. all campuses	173,705	3,658	43,447	49,403	7,696	20,316	1,820	2,100	44	45,221
50	Carnegie Mellon U.	172,858	90,589	219	6,243	2,966	10,135	6,850	9,376	241	46,239
51	Mt. Sinai School of Medicine	170,757	0	0	170,757	0	0	0	0	0	0
52	IN U. all campuses	166,913	6,955	1,837	124,872	2,275	15,566	8,089	5,966	357	996
53	U. UT	161,119	10,704	4,180	114,204	1,254	13,352	2,257	223	0	14,945
54	Yeshiva U.	151,520	0	0	151,520	0	0	0	0	0	0
55	U. CA, Irvine	150,995	6,495	3,802	106,209	1,713	13,910	2,122	3,467	0	13,277
56	U. TX M. D. Anderson Cancer Ctr.	150,529	0	0	132,412	4,799	5,586	4,984	157	0	2,591
57	CO State U.	145,213	1,335	57,302	58,376	2,059	7,963	3,166	1,941	192	12,879
58	Purdue U. all campuses	144,090	6,536	3,181	62,338	3,244	13,736	3,748	5,103	2,751	43,453
59	SUNY Buffalo all campuses	143,865	5,104	774	102,145	902	9,446	2,510	1,439	402	21,143
60	MI State U.	143,473	2,307	846	78,853	2,753	33,638	3,832	12,096	240	8,908
61	U. Miami	141,943	0	38,590	86,590	305	2,435	9,737	2,337	0	1,949
62	U. MD Baltimore	141,221	0	0	141,221	0	0	0	0	0	0
63	U. KY all campuses	129,887	2,573	1,534	90,603	3,657	5,834	3,768	2,091	1,966	17,861
64	Rutgers, The State U. NJ all campuses	128,655	2,946	12,875	63,527	5,335	19,613	5,318	3,916	0	15,125
65	U. CT all campuses	127,609	2,057	5,981	86,915	692	5,438	10,223	3,447	130	12,726
66	U. South FL	126,906	0	21,631	82,675	78	2,539	2,327	1,477	288	15,891
67	U. MA Worcester	126,162	0	0	126,162	0	0	0	0	0	0
68	SUNY Stony Brook all campuses	123,124	3,852	14,102	66,377	3,297	19,977	2,682	1,594	812	10,431
69	Dartmouth C.	123,109	2,727	692	86,002	362	3,299	3,907	605	8,823	16,692
70	U. of Medicine and Dentistry NJ	121,812	0	0	121,812	0	0	0	0	0	0
71	Wake Forest U.	120,075	0	0	117,586	1,021	1,468	0	0	0	0
72	U. NE all campuses	115,833	3,801	3,086	81,002	895	7,460	5,539	4,335	1,498	8,217
73	Wayne State U.	114,700	1,181	36	94,812	354	8,772	2,214	1,490	0	5,841
74	U. NM all campuses	112,299	3,189	3,288	60,805	1,389	7,084	4,631	8,451	4,934	18,528
75	LA State U. all campuses	112,169	557	8,281	75,608	398	12,687	209	1,706	0	12,723
76	Princeton U.	111,435	4,706	9,982	26,212	2,556	21,732	7,519	5,755	0	32,973
77	U. TN all campuses	109,357	6,930	2,227	69,659	394	9,606	232	1,423	1,397	17,489

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
78	UT State U.	107,945	524	2,891	22,815	245	3,298	2,379	963	1,219	73,611
79	U. TX Health Science Ctr. Houston	106,737	0	0	106,737	0	0	0	0	0	0
80	OR State U.	104,276	1,851	32,270	49,609	1,280	2,849	62	1,146	1,421	13,788
81	NC State U.	103,586	3,234	5,417	40,907	6,874	9,439	0	2,244	1,103	34,368
82	Medical U. SC	103,494	0	0	103,494	0	0	0	0	0	0
83	FL State U.	102,967	4,838	13,833	20,576	1,256	27,702	4,880	6,833	0	23,049
84	U. TX Medical Branch	102,491	0	0	101,327	0	0	0	0	0	1,164
85	U. KS all campuses	101,920	474	4,109	77,525	534	5,739	784	4,565	784	7,406
86	Medical C. WI	100,547	0	0	100,547	0	0	0	0	0	0
87	Woods Hole Oceanographic Institution	100,456	0	83,639	0	0	0	0	0	0	16,817
88	U. GA	96,348	635	3,914	72,512	1,312	4,617	8,130	4,093	0	1,135
89	Georgetown U.	95,852	217	0	91,419	129	2,541	743	803	0	0
90	VA Polytechnic Institute and State U.	95,669	2,601	5,445	36,016	1,409	7,526	2,014	1,580	4	39,074
91	SUNY Albany	94,712	2,158	4,024	79,427	75	1,930	1,079	4,886	0	1,133
92	Tufts U.	92,997	564	303	79,210	501	4,746	2,104	213	0	5,356
93	Tulane U.	92,331	0	620	79,785	1,647	2,209	265	2,740	0	5,065
94	Thomas Jefferson U.	92,296	0	0	92,296	0	0	0	0	0	0
95	U. CA, Santa Barbara	92,248	8,887	12,743	3,653	545	18,087	2,560	5,169	4,474	36,130
96	IA State U.	92,235	2,010	3,857	40,605	3,725	6,255	217	10,522	334	24,710
97	U. MO-Columbia	90,304	1,277	896	67,833	834	2,702	4,941	5,214	0	6,607
98	U. TX Health Science Ctr. San Antonio	89,662	0	0	89,662	0	0	0	0	0	0
99	VA Commonwealth U.	89,066	0	490	76,262	66	3,779	3,041	796	0	4,632
100	Brown U.	84,126	4,636	3,730	48,819	3,666	7,333	1,558	1,426	0	12,958
101	Rockefeller U.	82,535	40	0	76,439	1,506	4,550	0	0	0	0
102	MS State U.	82,205	4,377	3,706	34,637	294	4,213	1,142	2,614	4,838	26,384
103	U. OK all campuses	81,048	533	12,273	52,107	366	5,986	821	2,412	0	6,550
104	AZ State U. main campus	79,877	2,970	10,980	15,116	1,467	11,252	6,872	3,265	2,034	25,921
105	U. VT	79,015	0	294	68,844	1,006	1,375	629	127	5,380	1,360
106	George Washington U.	78,192	2,528	283	27,633	24,328	2,545	1,110	4,564	0	15,201
107	U. DE	76,583	1,699	9,200	12,661	652	13,825	2,853	3,675	4,312	27,706
108	NM State U. all campuses	76,396	2,628	484	13,069	183	8,144	912	1,969	250	48,757
109	U. AK Fairbanks all campuses	75,269	10,354	40,062	13,328	0	206	0	329	3,684	7,306
110	WA State U.	74,944	0	1,491	42,729	643	10,332	1,494	3,018	1,792	13,445
111	U. SC all campuses	71,856	1,094	11,290	24,503	1,311	8,480	4,685	4,068	359	16,066
112	U. NH	67,917	233	38,809	9,175	116	3,645	335	2,802	34	12,768
113	U. MA Amherst	65,452	10,495	1,660	19,824	1,584	19,128	3,442	757	9	8,553
114	Uniformed Services U. of the Health Sciences	62,408	0	0	62,301	0	0	107	0	0	0
115	Clemson U.	61,065	703	0	16,590	500	5,301	637	4,975	261	32,098
116	WV U.	60,819	193	4,349	31,821	470	3,614	128	1,435	10	18,799

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
117	U. MS all campuses	59,787	177	0	36,568	0	15,358	59	1,022	260	6,343
118	MT State U. Bozeman	58,874	144	1,001	29,343	911	12,397	0	1,678	4,619	8,781
119	U. Dayton	56,647	244	65	136	6	153	0	0	0	56,043
120	KS State U.	56,088	2,693	280	33,245	437	9,361	276	1,382	285	8,129
121	Drexel U.	54,963	1,056	0	26,811	158	2,327	918	0	0	23,693
122	U. Louisville	54,476	239	360	44,572	82	1,692	2,512	713	0	4,306
123	U. AR for Medical Sciences	53,249	0	0	53,249	0	0	0	0	0	0
124	U. CA, Santa Cruz	53,196	1,589	11,378	6,829	322	18,733	576	491	0	13,278
125	Rush U.	51,706	0	0	50,023	0	0	1,683	0	0	0
126	Rice U.	51,157	8,126	1,741	8,662	3,514	14,824	908	329	0	13,053
127	U. NV, Reno	50,787	527	5,257	30,404	550	7,315	466	239	0	6,029
128	Temple U.	50,456	337	183	36,890	198	2,705	6,738	1,312	0	2,093
129	Auburn U. all campuses	49,565	44	472	22,419	143	5,395	577	807	3,164	16,544
130	U. of Notre Dame	48,650	2,170	0	10,003	1,172	17,370	3,615	1,319	1,201	11,800
131	U. RI	48,590	501	22,958	14,454	29	852	2,891	59	2,666	4,180
132	U. ID	48,565	1,238	3,052	30,429	55	2,124	101	867	1,801	8,898
133	ND State U. all campuses	45,375	2,028	146	11,538	48	13,227	1,084	6,627	2,125	8,552
134	U. Central FL	44,020	0	6,209	5,345	186	15,123	1,969	738	4,641	9,809
135	U. OR	43,634	3,592	1,766	20,356	478	7,071	7,496	2,757	0	118
136	OK State U. all campuses	43,345	78	647	18,964	283	5,912	38	2,324	3,960	11,139
137	Syracuse U. all campuses	43,162	3,723	793	3,579	541	5,485	3,135	7,012	10,367	8,527
138	U. CA, Riverside	40,981	2,401	4,238	19,122	194	5,936	1,770	3,961	6	3,353
139	Charles R. Drew U. of Medicine and Science	40,430	0	0	40,430	0	0	0	0	0	0
140	Howard U.	40,086	1,417	0	26,544	115	4,334	2,748	330	66	4,532
141	George Mason U.	39,758	4,161	9,713	5,330	3,862	697	1,610	6,571	0	7,814
142	U. AL Huntsville, The	39,607	7,249	5,117	1,257	189	7,705	10	374	3	17,703
143	Brandeis U.	38,041	1,109	0	22,200	438	5,321	2,709	6,264	0	0
144	U. MD Baltimore County	37,548	3,147	17,575	3,402	729	8,721	596	1,396	0	1,982
145	St. Louis U. all campuses	36,989 e	0 e	786 e	35,890 e	161 e	57 e	22 e	73 e	0 e	0 e
146	Rensselaer Polytechnic Institute	36,651	1,246	1,917	841	1,690	4,241	0	1,114	0	25,602
147	U. ME	36,513	518	12,438	10,929	102	4,130	961	2,460	0	4,975
148	U. ND all campuses	36,349	160	5,948	13,904	0	792	0	14	340	15,191
149	Medical C. GA	35,841	0	0	35,841	0	0	0	0	0	0
150	U. MT, The	34,478	700	572	25,293	764	2,943	681	3,432	0	93
151	U. Houston	34,468	2,444	2,399	11,651	780	4,254	4,632	1,537	0	6,771
152	U. Southern MS	32,075	131	13,097	6,180	0	6,065	94	1,095	3,064	2,349
153	Hampton U.	31,443	0	24,587	2,972	230	2,250	0	0	0	1,404
154	U. AR main campus	31,088	0	1,760	13,678	145	7,915	38	990	0	6,562
155	NJ Institute of Technology	30,995	1,041	0	0	1,130	5,547	0	32	4,560	18,685

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
156	Northeastern U.	30,659	1,428	0	5,515	432	10,642	1,939	444	0	10,259
157	TX A&M U. System Health Science Ctr.	30,283	0	728	27,862	0	0	108	0	0	1,585
158	San Diego State U.	30,092	86	1,356	14,763	501	1,764	5,347	67	41	6,167
159	Loyola U. Chicago	29,150	15	1	27,795	141	638	474	86	0	0
160	Jackson State U.	28,806	2,895	3,420	7,798	1,123	4,565	1,129	312	6,953	611
161	Loma Linda U.	26,631	0	0	26,631	0	0	0	0	0	0
162	Desert Research Institute	26,235	0	18,473	0	0	0	0	0	7,762	0
163	Meharry Medical C.	26,159	0	0	26,159	0	0	0	0	0	0
164	C. of William and Mary all campuses	26,049	1,116	14,815	1,053	213	8,185	82	585	0	0
165	GA State U.	25,845	836	235	8,680	48	3,827	8,793	3,426	0	0
166	U. AL, The	25,329	1,024	1,223	2,595	90	2,645	2,800	1,626	0	13,326
167	NY Medical C.	25,103	0	0	25,103	0	0	0	0	0	0
168	FL A&M U.	24,994	350	2,281	16,886	204	1,564	67	0	65	3,577
169	U. MD Biotechnology Institute	24,059	0	4,650	19,409	0	0	0	0	0	0
170	Morehouse School of Medicine	23,331	0	0	23,331	0	0	0	0	0	0
171	TX Tech U.	23,181	662	6,706	4,574	394	2,976	280	1,279	0	6,310
172	SUNY Upstate Medical U.	22,650	0	0	22,650	0	0	0	0	0	0
173	Old Dominion U.	21,377	796	2,472	836	535	1,770	462	236	0	14,270
174	OH U. all campuses	20,831	134	753	3,518	0	4,576	1,031	315	0	10,504
175	Wright State U. all campuses	20,599	2,339	162	11,866	126	1,600	1,327	39	0	3,140
176	San Jose State U.	20,363	44	7,123	248	133	2,216	9,056	62	0	1,481
177	U. MO-Rolla	20,218	94	2,423	517	0	3,490	0	0	0	13,694
178	CUNY City C.	19,711	485	135	5,548	214	6,694	388	62	0	6,185
179	Stevens Institute of Technology	19,473	3,584	7,064	473	40	3,111	0	0	148	5,053
180	Lehigh U.	19,400	791	1,791	1,722	118	2,651	182	0	0	12,145
181	Catholic U. America, The	18,927	0	0	1,266	0	15,229	1,094	122	0	1,216
182	CUNY Hunter C.	18,836	216	97	7,812	14	5,516	4,617	516	48	0
183	MI Technological U.	18,735	775	4,162	425	132	1,454	0	26	39	11,722
184	U. South AL	17,832	0	1,608	13,334	129	100	281	607	0	1,773
185	Brigham Young U. all campuses	17,129	902	203	3,701	191	3,327	412	636	0	7,757
186	Marshall U.	17,104	0	0	8,912	0	245	0	0	0	7,947
187	U. TX El Paso	16,900	655	2,442	5,069	191	3,239	557	80	191	4,476
188	U. MA Lowell	16,655	312	1,612	3,229	29	5,207	78	1,864	179	4,145
189	CO School of Mines	16,550	0	1,436	0	653	5,677	0	6	0	8,778
190	U. LA Lafayette	15,850	543	39	11,212	130	102	40	189	2,984	611
191	U.S. Air Force Academy	15,739	1,962	0	389	332	2,036	249	445	0	10,326
192	U. TX Dallas	15,733	1,761	2,589	4,714	93	4,432	67	246	287	1,544
193	U. MO-Kansas City	15,696	297	0	12,417	0	978	1,507	170	0	327
194	Southern IL U. Carbondale	15,557	0	495	11,099	101	778	328	356	1,328	1,072
195	SD State U.	15,127	36	363	10,701	0	357	0	2,078	150	1,442

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
196	IL Institute of Technology	14,903	0	0	0	0	0	0	0	0	0
197	FL Atlantic U.	14,662	162	565	4,946	321	1,976	404	50	0	6,238
198	Medical C. OH	14,591	0	0	14,591	0	0	0	0	0	0
199	U. Memphis, The	14,078	0	1,508	1,649	1,095	503	5,756	2,921	0	646
200	NM Institute of Mining and Technology	13,853	150	1,259	686	0	1,065	0	0	4,258	6,435
201	U. MD Ctr. for Environmental Science	13,824	0	13,824	0	0	0	0	0	0	0
202	U. NC Charlotte	13,816	3,027	205	2,760	284	5,111	0	449	2	1,978
203	U. WI Milwaukee	13,670	256	1,685	1,428	502	2,812	566	4,390	0	2,031
204	NC Agricultural and Technical State U.	13,487	462	0	4,314	0	1,097	0	677	0	6,937
205	Portland State U.	13,276 e	1,132 e	1,869 e	2,128 e	698 e	1,214 e	261 e	5,014 e	0 e	960 e
206	U. North TX Health Science Ctr. Ft. Worth	13,259	0	0	13,259	0	0	0	0	0	0
207	U. Toledo	13,229	0	2,442	1,937	35	3,303	162	151	0	5,199
208	Clark Atlanta U.	13,075	501	0	3,720	0	3,133	263	478	3,384	1,596
209	U. SD	12,849	140	80	10,311	0	1,507	85	726	0	0
210	Northern AZ U.	12,754	145	914	10,083	45	904	0	490	96	77
211	Rochester Institute of Technology	12,415	187	328	1,242	0	4,991	0	107	0	5,560
212	Albany Medical C.	11,849	0	0	11,849	0	0	0	0	0	0
213	Wichita State U.	11,796	164	27	969	103	1,576	718	314	0	7,925
214	U. TX San Antonio	11,644	1,955	185	6,776	175	405	160	261	0	1,727
215	U. of the VI	11,598	0	0	9,685	0	0	0	1,811	42	60
216	TN State U.	11,277	251	0	5,022	231	924	7	809	0	4,033
217	U. Tulsa	11,240	3,525	149	1,058	0	1,033	20	6	0	5,449
218	U. TX Arlington	10,498	0	96	504	224	3,200	446	425	0	5,603
219	SUNY Binghamton	10,414	316	277	1,179	98	1,531	2,599	1,909	0	2,505
220	U. Akron all campuses	10,284	119	409	1,352	522	3,467	157	1,104	0	3,154
221	U. NC Wilmington	9,951	0	5,280	3,581	23	445	410	212	0	0
222	U. Denver	9,839	78	115	2,219	0	2,433	2,050	132	0	2,812
223	Mercer U. all campuses	9,613	0	0	1,442	0	15	0	7	0	8,149
224	East Carolina U.	9,399	504	197	7,789	38	629	95	145	0	2
225	U. GU	9,205	0	1,222	5,430	0	0	0	495	1,993	65
226	U. MA Dartmouth	9,199	39	3,716	1,217	674	1,436	140	66	27	1,884
227	Ponce School of Medicine	9,179	0	0	9,179	0	0	0	0	0	0
228	Kent State U. all campuses	9,093	428	615	2,359	188	4,039	1,236	228	0	0
229	Tuskegee U.	8,904	0	0	6,272	0	194	0	1,536	0	902
230	Universidad Central del Caribe	8,498	0	0	8,498	0	0	0	0	0	0
231	Worcester Polytechnic Institute	8,489	704	0	456	394	584	0	192	0	6,159
232	ID State U.	8,416	0	1,270	3,458	52	2,822	0	513	13	288
233	SD School of Mines and Technology	8,366	0	2,603	0	0	132	0	0	130	5,501
234	CA State U. Long Beach	8,351	21	384	2,385	55	577	105	247	289	4,288

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
235	Western MI U.	8,313	185	1,150	2,275	1,827	1,776	209	64	0	827
236	CA State U. Los Angeles	8,094	0	1,001	2,049	119	2,456	275	191	0	2,003
237	U. PR Rio Piedras Campus	8,093	0	1,062	2,410	301	3,208	1,112	0	0	0
238	Prairie View A&M U.	7,965	1,139	0	3,937	132	695	0	22	0	2,040
239	Rosalind Franklin U. of Medicine and Science	7,843	0	0	7,367	0	0	476	0	0	0
240	Boise State U.	7,642	211	1,719	2,027	115	657	224	34	0	2,655
241	Alcorn State U.	7,622	0	0	7,622	0	0	0	0	0	0
242	TX Tech U. Health Science Ctr.	7,604	0	0	7,604	0	0	0	0	0	0
243	U. PR Mayaguez Campus	7,539	0	2,227	571	62	1,928	0	29	225	2,497
244	Morgan State U.	7,227	340	0	974	2,140	674	0	65	53	2,981
245	Northern IL U.	6,824	274	897	1,456	186	3,178	644	0	0	189
246	Southern Methodist U.	6,752	422	2,203	1,357	328	1,332	437	211	0	462
247	CA State U. Northridge	6,521	0	888	799	229	1,882	817	351	643	912
248	Clarkson U.	6,434	0	0	300	129	1,529	0	0	0	4,476
249	Cleveland State U.	6,380	60	247	769	0	155	37	431	0	4,681
250	Teachers C. Columbia U.	6,256	0	0	1,980	0	0	3,149	1,127	0	0
251	Norfolk State U.	6,054	1,099	0	177	933	3,430	0	0	1	414
252	Marquette U.	6,046	0	0	2,957	122	465	235	39	0	2,228
253	CUNY Queens C.	5,820	350	321	3,246	0	1,008	686	209	0	0
254	TX A&M U. Corpus Christi	5,685	724	1,044	322	1,716	965	0	0	83	831
255	VA State U.	5,655	0	0	5,347	0	308	0	0	0	0
256	FL Institute of Technology	5,575	1,829	771	657	154	1,500	51	0	0	613
257	Oakland U.	5,559	223	0	2,489	23	1,217	0	0	0	1,607
258	U. North TX	5,499	308	797	773	231	975	76	382	0	1,957
259	U. MA Boston	5,412	4	826	882	415	274	992	1,919	13	87
260	Wesleyan U.	5,388	0	126	2,403	77	1,671	1,111	0	0	0
261	U.S. Naval Academy	5,341	224	203	0	828	823	151	60	0	3,052
262	U. West FL	5,332	3,777	975	100	0	181	14	285	0	0
263	Bowling Green State U. all campuses	5,318	0	170	1,415	94	1,037	1,137	808	243	414
264	Xavier U. LA	5,226	190	264	3,098	0	1,496	0	0	0	178
265	Tarleton State U.	5,208	0	968	3,830	0	410	0	0	0	0
266	Embry-Riddle Aeronautical U.	5,179	0	174	0	6	697	0	0	703	3,599
267	CA State U. San Bernardino	5,127	764	586	120	45	99	0	256	3,173	84
268	Fisk U.	5,000	0	0	0	0	5,000	0	0	0	0
269	Air Force Institute of Technology	4,664	676	36	0	190	1,886	0	0	392	1,484
270	Polytechnic U.	4,660	1,078	0	0	121	154	0	0	0	3,307
271	U. MO-St. Louis	4,618	0	0	2,286	215	1,054	594	469	0	0
272	Clark U.	4,475 e	0 e	1,033 e	376 e	32 e	758 e	501 e	30 e	0 e	1,745 e

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
273	East TN State U.	4,412	45	2	4,133	0	91	81	0	60	0
274	Western KY U.	4,400	0	2	997	59	2,844	441	6	51	0
275	Rowan U.	4,355	0	0	25	543	1,400	875	160	0	1,352
276	U. HI Hilo	4,217	0	873	2,999	0	7	338	0	0	0
277	CA State U. Dominguez Hills	4,179	154	0	2,541	962	446	36	40	0	0
278	CA State Polytechnic U. Pomona	4,059	0	0	3,701	0	0	0	0	0	358
279	MT Tech of the U. MT	4,059	2	1,384	290	0	226	0	0	0	2,157
280	CA State U. Fullerton	3,979	0	149	813	0	105	81	2,830	0	1
281	TX A&M U. Kingsville	3,832	0	137	2,508	0	91	0	0	90	1,006
282	CA State U. Fresno	3,750	0	454	1,820	35	137	1,284	0	0	20
283	Wellesley C.	3,708	0	38	650	0	472	12	202	2,334	0
284	Southern U. and A&M C. all campuses	3,581	0	945	1,199	0	744	0	543	0	150
285	Langston U.	3,578	0	0	3,578	0	0	0	0	0	0
286	DePaul U.	3,539	339	19	255	0	77	2,570	279	0	0
287	TX State U. San Marcos	3,536	0	76	524	74	2,266	0	75	521	0
288	U. DC	3,492	0	79	1,357	0	516	0	1,540	0	0
289	Duquesne U.	3,479	0	0	2,031	157	1,225	1	65	0	0
290	U. AR Pine Bluff	3,455	0	0	3,209	0	230	0	16	0	0
291	Ball State U.	3,441	244	7	1,943	49	292	69	828	0	9
292	CUNY Graduate Ctr.	3,324	1,010	0	1,198	0	38	161	0	917	0
293	C. Charleston	3,321	4	2,190	399	73	389	0	85	181	0
294	KY State U.	3,298	0	6	3,148	0	0	0	0	0	144
295	U. NC Greensboro	3,267	0	0	2,530	132	164	364	77	0	0
296	U. PR Humacao U. C.	3,201	0	0	312	0	2,889	0	0	0	0
297	Northeastern OH Universities C. of Medicine	2,964	0	0	2,964	0	0	0	0	0	0
298	TX Christian U.	2,961	41	18	147	0	429	2,287	14	0	25
299	CUNY Herbert H. Lehman C.	2,936	161	0	106	243	99	2,327	0	0	0
300	James Madison U.	2,843	1,340	2	561	91	446	66	80	0	257
301	Central MI U.	2,707	0	45	117	51	2,446	1	47	0	0
302	IL State U.	2,650	0	30	1,861	22	661	0	76	0	0
303	CA State Polytechnic U. San Luis Obispo	2,616	0	0	962	112	26	35	86	1,128	267
304	St. Joseph's U.	2,612	126	0	402	64	4	0	0	2,016	0
305	U. AR Little Rock	2,586	288	29	66	0	229	0	0	0	1,974
306	U. TX-Pan American	2,578	468	155	1,143	95	0	290	0	0	427
307	TN Technological U.	2,564	29	0	616	0	205	0	0	0	1,714
308	CUNY Brooklyn C.	2,559	731	0	415	0	151	1,133	113	0	16
309	Ft. Valley State U.	2,558	0	0	2,558	0	0	0	0	0	0
310	CA State U. Monterey Bay	2,548	55	2,124	369	0	0	0	0	0	0
311	Albany State U.	2,547	32	228	847	0	15	0	779	195	451

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
312	Maharishi U. of Management	2,541 e	0 e	0 e	2,531 e	10 e	0 e	0 e	0 e	0 e	0 e
313	Spelman C.	2,419	20	0	1,380	69	645	305	0	0	0
314	Eastern MI U.	2,375	0	30	765	0	21	667	25	0	867
315	West TX A&M U.	2,205	0	206	341	0	0	0	13	0	1,645
316	Central WA U.	2,200	323	1,189	480	0	124	0	84	0	0
317	Savannah State U.	2,094	0	1,169	437	0	0	0	0	0	488
318	New England C. of Optometry	1,958	0	0	1,958	0	0	0	0	0	0
319	Western WA U.	1,950	0	738	466	56	304	170	65	0	151
320	Christopher Newport U.	1,904	0	0	270	182	1,439	13	0	0	0
321	Nova Southeastern U.	1,884	0	1,085	486	0	0	293	0	20	0
322	Bowie State U.	1,883	1,507	0	235	0	0	0	141	0	0
323	Southwest MO State U.	1,863	0	44	329	4	1,337	0	0	0	149
324	SUNY C. of Optometry	1,856	0	0	1,856	0	0	0	0	0	0
325	West Chester U. PA	1,833	1,420	0	130	263	20	0	0	0	0
326	NM Highlands U.	1,810	0	140	142	0	1,057	471	0	0	0
327	Ithaca C.	1,807	0	0	481	1,121	0	205	0	0	0
328	Mt. Holyoke C.	1,800	80	520	371	228	588	13	0	0	0
329	Gallaudet U.	1,747	0	0	392	0	0	1,355	0	0	0
330	GA Southern U.	1,746	0	467	1,031	75	109	50	14	0	0
331	U. Redlands	1,711	0	1,617	36	0	57	0	0	0	1
332	U. of the Pacific	1,700	0	436	888	0	0	0	191	0	185
333	CUNY York C.	1,669	0	0	1,536	0	133	0	0	0	0
334	Middle TN State U.	1,651	261	0	444	96	710	0	0	0	140
335	Western Carolina U.	1,633	138	22	766	0	0	389	273	0	45
336	CUNY C. Staten Island	1,624	0	0	487	215	803	40	0	0	79
337	Smith C.	1,602	267	30	568	16	313	255	8	28	117
338	Hope C.	1,576	102	34	512	43	763	0	0	0	122
339	Carleton C.	1,575	0	780	300	118	298	76	3	0	0
340	Lincoln U. (Jefferson City, MO)	1,552	0	100	1,452	0	0	0	0	0	0
341	Grambling State U.	1,522	0	53	1,159	48	262	0	0	0	0
342	Alfred U. all campuses	1,494	0	29	0	0	5	0	0	0	1,460
343	Lamar U.	1,494	28	1,051	0	25	10	0	0	0	380
344	U. North FL	1,493	0	0	1,044	35	198	38	152	0	26
345	American U.	1,456	0	0	23	27	265	322	505	0	314
346	Swarthmore C.	1,449	31	0	220	7	520	421	116	74	60
347	Indiana U. PA all campuses	1,446	216	23	65	0	33	55	164	514	376
348	PA C. of Optometry	1,407	0	0	1,407	0	0	0	0	0	0
349	WV State C.	1,403	0	28	1,275	0	100	0	0	0	0
350	Youngstown State U.	1,385	0	0	146	49	966	0	33	0	191

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
351	U. Scranton	1,374	0	0	1,142	0	232	0	0	0	0
352	Baylor U.	1,372	64	154	263	51	409	223	69	122	17
353	Barnard C.	1,369 e	0 e	95 e	210 e	42 e	214 e	757 e	51 e	0 e	0 e
354	SUNY C. Oswego	1,342	123	29	7	40	59	963	48	73	0
355	U. Northern CO	1,328	0	110	372	1	5	0	488	352	0
356	OR Institute of Technology	1,322	329	5	0	0	0	0	0	0	988
357	U. WI Green Bay	1,293	0	1,179	0	0	0	0	114	0	0
358	U. LA Monroe	1,271	0	0	1,271	0	0	0	0	0	0
359	SUNY C. Old Westbury	1,258	0	0	921	10	272	0	55	0	0
360	Southeastern LA U.	1,257	0	0	1,169	0	87	0	1	0	0
361	Seton Hall U.	1,233	0	0	607	0	626	0	0	0	0
362	U. WI La Crosse	1,221	217	0	455	0	106	0	443	0	0
363	Furman U.	1,197	32	141	276	0	566	182	0	0	0
364	Lafayette C.	1,187	0	20	103	77	111	34	0	0	842
365	Murray State U.	1,185	0	308	747	49	28	0	0	0	53
366	Hampshire C.	1,181	414	155	59	0	288	63	53	149	0
367	TX Woman's U.	1,175	0	0	1,053	0	0	0	9	113	0
368	Bowdoin C.	1,151	35	321	472	3	221	69	30	0	0
369	Morehead State U.	1,137	0	263	159	0	27	191	497	0	0
370	Amherst C.	1,126	0	103	401	21	409	78	114	0	0
371	NY Institute of Technology all campuses	1,110	0	0	275	0	0	0	0	0	835
372	Bryn Mawr C.	1,065	47	108	112	247	361	157	33	0	0
373	Shaw U.	1,033	0	356	619	58	0	0	0	0	0
374	Elizabeth City State U.	1,032	0	152	147	382	0	0	0	0	351
375	Benedict C.	1,020	0	0	1,020	0	0	0	0	0	0
376	St. Cloud State U.	972	0	142	365	0	109	0	356	0	0
377	Macalester C.	959	0	21	310	188	371	69	0	0	0
378	Bucknell U.	955	25	65	104	0	267	3	0	0	491
379	Philadelphia C. of Osteopathic Medicine	951	0	0	951	0	0	0	0	0	0
380	Claremont Graduate U.	945	289	0	0	25	0	527	104	0	0
381	Pomona C.	940	0	39	470	17	48	366	0	0	0
382	Black Hills State U.	934	0	41	881	0	12	0	0	0	0
383	Fordham U.	929	0	0	255	2	0	522	150	0	0
384	Hamilton C. (Clinton, NY)	901	0	196	106	0	276	300	23	0	0
385	U. Richmond	900	0	0	483	32	249	65	71	0	0
386	SUNY C. Plattsburgh	896	0	456	35	0	379	0	26	0	0
387	FL Gulf Coast U.	884	0	785	99	0	0	0	0	0	0
388	U. WI Stevens Point	884	104	107	587	0	86	0	0	0	0
389	SUNY C. Buffalo	883	0	178	0	0	0	143	562	0	0
390	U. WI Oshkosh	879	1	33	624	0	167	52	0	2	0

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
391	U.S. Coast Guard Academy	866	0	0	0	0	5	0	0	0	861
392	Midwestern U. (Chicago, IL)	857	0	0	857	0	0	0	0	0	0
393	U. WI Stout	838	0	0	134	123	0	0	0	581	0
394	Southern IL U. Edwardsville	829	33	2	172	65	92	0	249	15	201
395	Franklin & Marshall C.	815	0	105	187	0	497	26	0	0	0
396	Trinity U.	805	0	2	425	82	246	47	0	0	3
397	Coastal Carolina U.	785	0	671	34	0	80	0	0	0	0
398	Juniata C.	778	0	205	482	0	64	0	27	0	0
399	Colgate U.	777	0	281	120	34	202	122	18	0	0
400	IN State U. all campuses	747	0	236	238	0	39	234	0	0	0
401	Pittsburg State U.	744	0	0	190	3	0	0	0	0	551
402	U. WI Superior	743	0	626	21	93	0	0	3	0	0
403	Stephen F. Austin State U.	740	0	0	654	0	63	0	23	0	0
404	Rose-Hulman Institute of Technology	726	0	0	0	0	603	0	0	0	123
405	Bethune-Cookman C.	723	0	0	589	0	134	0	0	0	0
406	U. WI Eau Claire	721	35	56	242	30	326	32	0	0	0
407	CO State U. Pueblo	714	0	0	395	0	319	0	0	0	0
408	Dickinson C.	708	8	16	357	32	283	12	0	0	0
409	U. San Francisco	706	0	0	55	0	146	398	64	43	0
410	Reed C.	702	0	0	222	0	375	10	95	0	0
411	U. Hartford	697	0	0	0	0	46	138	0	0	513
412	Trinity C. (Hartford, CT)	686	6	66	101	0	129	245	69	0	70
413	Bates C.	679	0	200	267	2	210	0	0	0	0
414	Bradley U.	671	123	0	182	0	155	0	4	56	151
415	Union C. (Schenectady, NY)	664	4	6	374	2	62	0	90	0	126
416	Milwaukee School of Engineering	662	0	0	441	0	0	0	0	0	221
417	Drake U.	647	0	235	79	0	232	15	0	86	0
418	U. Northern IA	646	49	26	339	0	70	0	162	0	0
419	Pace U. all campuses	644	18	10	562	0	0	0	0	0	54
420	State U. West GA	623	28	120	200	0	255	0	20	0	0
421	Hendrix C.	615	0	87	147	0	172	0	1	0	208
422	SUNY C. Geneseo	588	22	3	104	25	344	90	0	0	0
423	Southern OR U.	587	0	0	444	0	63	0	80	0	0
424	Hartwick C.	581	15	130	200	0	118	0	3	115	0
425	SUNY C. Brockport	574	0	0	496	0	20	10	0	48	0
426	AR State U. main campus	569	0	66	233	0	270	0	0	0	0
427	Southern U. New Orleans	556	10	0	133	0	0	0	0	413	0
428	CUNY Medgar Evers C.	555	266	88	79	0	122	0	0	0	0
429	U. WI Parkside	548	30	4	336	0	51	127	0	0	0

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
430	Whitman C.	544	0	308	153	0	83	0	0	0	0
431	C. of the Holy Cross	538	25	0	0	78	365	70	0	0	0
432	Gustavus Adolphus C.	533	0	74	82	30	319	0	28	0	0
433	Calvin C.	530	146	0	208	28	75	64	0	0	9
434	Lincoln U. (Lincoln University, PA)	526	0	0	404	0	122	0	0	0	0
435	Loyola Marymount U.	508	0	0	104	0	56	0	0	0	348
436	Augustana C. (Rock Island, IL)	504	0	75	101	0	328	0	0	0	0
437	Augsburg C.	493	107	386	0	0	0	0	0	0	0
438	MS Valley State U.	493	218	0	183	0	78	0	0	0	14
439	U. IL Springfield	493	0	0	0	0	2	0	465	26	0
440	Mt. St. Mary's C. (Los Angeles, CA)	492	0	0	482	0	10	0	0	0	0
441	Allegheny C.	476	0	14	98	0	364	0	0	0	0
442	Northern KY U.	474	0	0	130	107	80	47	110	0	0
443	McNeese State U.	451	0	441	0	0	0	10	0	0	0
444	U. Houston-Downtown	449	192	0	63	0	194	0	0	0	0
445	Chapman U.	439	27	314	98	0	0	0	0	0	0
446	Rider U.	428	0	10	399	0	0	0	19	0	0
447	St. Mary's U. (San Antonio, TX)	414	0	0	0	0	0	0	0	0	414
448	U. of Health Sciences	407	0	0	407	0	0	0	0	0	0
449	Valparaiso U.	404	0	0	40	21	202	0	0	0	141
450	U. San Diego	399	0	0	210	7	182	0	0	0	0
451	Colby C.	373	0	26	57	0	207	0	83	0	0
452	U. Puget Sound	370	0	43	1	0	0	0	209	117	0
453	Western IL U.	369	0	0	267	2	100	0	0	0	0
454	Roanoke C.	364	0	0	77	0	287	0	0	0	0
455	Skidmore C.	364	0	0	358	0	0	6	0	0	0
456	Evergreen State C.	354	46	28	158	0	6	0	0	116	0
457	Roger Williams U. Bristol	352	0	280	72	0	0	0	0	0	0
458	Dillard U.	351	0	0	0	0	351	0	0	0	0
459	St. Olaf C.	347	0	0	154	0	151	21	21	0	0
460	Kirksville C. of Osteopathic Medicine	333	0	0	333	0	0	0	0	0	0
461	Southeastern OK State U.	320	0	0	232	0	88	0	0	0	0
462	Southern CT State U.	312	98	0	0	0	214	0	0	0	0
463	Western U. of Health Sciences	312	0	0	312	0	0	0	0	0	0
464	Kennesaw State U.	311	0	0	19	0	292	0	0	0	0
465	Towson U.	302	40	0	167	20	43	0	32	0	0
466	Kettering U.	298	0	0	0	20	0	0	0	0	278
467	Oberlin C.	291	0	39	111	0	103	38	0	0	0
468	Eastern WA U.	288	0	0	107	0	0	0	181	0	0

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
469	C. Wooster	281	0	0	0	0	0	0	0	0	0
470	Augustana C. (Sioux Falls, SD)	273	69	0	175	0	16	0	13	0	0
471	Appalachian State U.	272	0	82	151	0	8	0	31	0	0
472	MA C. of Pharmacy and Health Sciences	270	0	0	270	0	0	0	0	0	0
473	Fairfield U.	267	0	0	21	0	99	35	69	43	0
474	U. NC Asheville	265	0	88	10	0	129	0	9	29	0
475	U. WI Whitewater	264	0	18	130	0	116	0	0	0	0
476	Sul Ross State U.	261	0	0	152	38	28	0	43	0	0
477	NJ City U.	260	0	0	0	0	260	0	0	0	0
478	Claffin U.	255	0	0	255	0	0	0	0	0	0
479	Kalamazoo C.	254	0	0	82	37	135	0	0	0	0
480	Andrews U.	249	0	0	36	68	139	0	6	0	0
481	SUNY C. Cortland	245	0	33	144	0	23	0	45	0	0
482	Central CT State U.	239	0	0	100	0	29	0	110	0	0
483	U. Houston-Clear Lake	238	59	5	88	86	0	0	0	0	0
484	Albany C. of Pharmacy	235	0	0	235	0	0	0	0	0	0
485	Sonoma State U.	234	0	0	192	0	42	0	0	0	0
486	CUNY Baruch C.	232	0	0	29	29	26	147	0	1	0
487	Jarvis Christian C.	232	47	0	69	23	93	0	0	0	0
488	Lake Forest C.	228	0	0	228	0	0	0	0	0	0
489	Grinnell C.	225	0	0	0	0	225	0	0	0	0
490	Denison U.	224	0	26	64	0	134	0	0	0	0
491	Pitzer C.	223	0	0	0	0	0	223	0	0	0
492	Grand Valley State U.	221	0	179	42	0	0	0	0	0	0
493	Lawrence Technological U.	219	0	0	0	0	0	0	0	0	219
494	Providence C.	214	0	0	160	0	36	18	0	0	0
495	Iona C.	213	137	0	23	0	53	0	0	0	0
496	Simmons C.	208	0	0	33	0	175	0	0	0	0
497	U. of the Sciences Philadelphia	207	0	0	207	0	0	0	0	0	0
498	U. CA Office of the President	203	0	0	148	0	0	0	3	52	0
499	New C. FL	199	0	98	48	0	11	0	42	0	0
500	John Carroll U.	197	0	0	118	20	59	0	0	0	0
501	U. Portland	183	0	0	129	43	11	0	0	0	0
502	CUNY John Jay C. of Criminal Justice	177	0	0	0	0	0	143	0	34	0
503	Eastern KY U.	175	0	3	113	0	47	12	0	0	0
504	Wiley C.	169	0	0	0	0	145	0	0	24	0
505	Wabash C.	166	0	0	0	0	157	0	9	0	0
506	Fayetteville State U.	161	0	0	98	0	38	20	0	5	0
507	U. Detroit Mercy	158 e	0 e	0 e	6 e	0 e	110 e	0 e	0 e	9 e	33 e

TABLE 71. Federally financed R&D expenditures at universities and colleges reporting agency detail, ranked by federal R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	All federal R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
508	Bluefield State C.	156	0	0	156	0	0	0	0	0	0
509	U. of St. Thomas (St. Paul, MN)	154	0	0	53	0	101	0	0	0	0
510	St. Mary's C. MD	151	0	78	61	0	12	0	0	0	0
511	Ft. Lewis C.	150	0	7	110	0	33	0	0	0	0
512	Abilene Christian U.	135	0	0	11	0	124	0	0	0	0
513	Lewis and Clark C.	129	0	0	60	0	69	0	0	0	0
514	SUNY Fredonia	116	0	0	51	0	65	0	0	0	0
515	U. WI River Falls	106	0	0	26	0	80	0	0	0	0
516	Wilkes U.	105	0	0	105	0	0	0	0	0	0
517	SUNY Purchase C.	100	0	61	39	0	0	0	0	0	0
518	Nicholls State U.	98	0	0	54	28	16	0	0	0	0
519	Seattle U.	95	4	0	0	28	35	0	0	0	28
520	Willamette U.	94	0	0	73	0	21	0	0	0	0
521	Radford U.	90	0	23	0	0	5	0	62	0	0
522	Truman State U.	84	11	0	52	0	21	0	0	0	0
523	Des Moines U. Osteopathic Medical Ctr.	78 e	0 e	0 e	78 e	0 e	0 e	0 e	0 e	0 e	0 e
524	U. Central OK	71	0	0	49	0	0	0	0	0	22
525	Eastern OR U.	64	0	0	0	0	64	0	0	0	0
526	La Salle U.	57	0	0	57	0	0	0	0	0	0
527	TX A&M U. Commerce	54	1	0	9	0	44	0	0	0	0
528	U. Findlay, The	40	0	0	40	0	0	0	0	0	0
529	Bridgewater State C.	36	0	5	0	0	5	0	26	0	0
530	National U. of Health Sciences	31	0	0	31	0	0	0	0	0	0
531	Northeastern IL U.	17	0	0	5	12	0	0	0	0	0
532	Saginaw Valley State U.	10	0	0	0	7	3	0	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0

e = estimated.

nec = not elsewhere classified.

NOTES: Institutions that are not listed in this table did not provide federally financed R&D expenditures by federal agency. Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	2,477,556	303,041	140,036	402,982	31,443	307,474	27,307	24,214	34,193	1,204,933
1	PA State U. all campuses	135,749	23,014	2,790	2,032	1,511	12,106	121	119	0	94,056
2	GA Institute of Technology all campuses	129,817	25,798	122	2,153	98	6,079	266	414	0	94,887
3	MA Institute of Technology	86,796	10,643	3,862	2,106	343	4,332	0	221	47	65,242
4	U. TX Austin	75,780	18,140	390	491	500	21,842	238	1,114	0	33,065
5	U. Southern CA	65,848	49,944	409	2,746	532	1,021	60	0	0	11,136
6	Carnegie Mellon U.	59,850	34,539	0	50	477	1,801	1,803	1,505	41	19,634
7	Uniformed Services U. of the Health Sciences	58,545	0	0	58,438	0	0	107	0	0	0
8	Stanford U.	55,397	4,779	500	5,812	1,022	10,401	174	1,075	0	31,634
9	U. MI all campuses	54,980	122	0	13,806	164	2,299	246	1	0	38,342
10	U. Dayton	52,074	244	0	14	6	30	0	0	0	51,780
11	UT State U.	45,713	0	903	10	0	708	0	0	0	44,092
12	U. IL Urbana-Champaign	40,079	11,016	953	1,072	143	3,418	807	669	246	21,755
13	U. HI Manoa	38,937	17,853	5,695	1,152	0	7,113	0	479	792	5,853
14	U. CA, Los Angeles	38,782	3,231	281	7,227	616	6,193	57	0	92	21,085
15	U. CA, San Diego	37,626	111	19,511	1,373	750	2,594	295	653	0	12,339
16	U. MD College Park	37,288	5,940	47	61	126	5,280	396	5,956	0	19,482
17	U. CA, Berkeley	33,330	32	6	854	273	4,419	0	60	0	27,686
18	OH State U. all campuses	26,799	2,549	232	5,017	316	2,334	66	44	0	16,241
19	MS State U.	25,455	3,286	2,880	42	23	369	962	23	3,897	13,973
20	U. South FL	25,380	0	10,370	10,556	0	248	0	0	0	4,206
21	U. CA, Santa Barbara	25,190	917	379	36	0	2,521	405	431	0	20,501
22	U. WI Madison	25,169	1,215	1,112	6,702	206	879	369	58	0	14,628
23	Duke U.	22,074	564	264	10,040	120	4,218	0	0	0	6,868
24	TX A&M U. all campuses	21,822	0	675	843	2,687	5,332	0	0	0	12,285
25	Purdue U. all campuses	21,212	2,254	368	3,416	143	1,173	579	477	192	12,610
26	Princeton U.	20,804	872	250	233	389	3,478	671	0	0	14,911
27	NM State U. all campuses	20,758	204	0	0	69	685	51	86	0	19,663
28	U. Central FL	20,634	0	125	480	63	11,140	1,446	0	4,514	2,866
29	U. FL	20,584	919	170	3,167	0	3,048	268	18	0	12,994
30	Northwestern U.	20,045	892	0	2,925	454	6,934	257	55	107	8,421
31	Cornell U. all campuses	19,392	5,717	91	3,904	0	474	0	33	0	9,173
32	FL State U.	18,575	2,067	1,266	323	106	1,070	0	254	0	13,489
33	Vanderbilt U.	18,309	0	0	1,789	103	3,164	985	52	0	12,216
34	Georgetown U.	18,207	86	0	17,396	0	725	0	0	0	0
35	U. CO all campuses	17,758	789	604	2,820	190	4,921	1,085	12	1,102	6,235
36	ND State U. all campuses	17,502	334	0	399	0	9,458	184	0	0	7,127
37	U. AZ	16,851	460	102	2,539	1,893	4,763	26	1,068	0	6,000
38	U. NM all campuses	16,595	496	0	3,707	257	1,061	338	1,628	804	8,304

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
39	VA Polytechnic Institute and State U.	16,120	356	1,100	4,213	371	1,222	0	0	0	8,858
40	SUNY Buffalo all campuses	15,981	464	57	5,503	0	3,976	0	174	0	5,807
41	Woods Hole Oceanographic Institution	15,481	0	8,007	0	0	0	0	0	0	7,474
42	Stevens Institute of Technology	15,296	2,346	6,635	0	0	2,043	0	0	60	4,212
43	U.S. Air Force Academy	15,228	1,962	0	389	332	1,665	249	445	0	10,186
44	AZ State U. main campus	15,157	884	0	1,594	643	1,123	0	0	31	10,882
45	U. Pittsburgh all campuses	15,040	765	0	8,773	29	2,259	10	43	1,298	1,863
46	U. MS all campuses	14,890	0	0	148	0	12,524	0	970	0	1,248
47	George Mason U.	14,569	3,091	1,017	1,766	1,823	213	179	502	0	5,978
48	U. SC all campuses	14,234	359	641	668	588	479	194	1,253	0	10,052
49	OK State U. all campuses	14,132	0	182	1,820	28	3,449	0	208	1,474	6,971
50	Boston U.	13,372	299	183	3,237	70	980	0	0	3,983	4,620
51	U. IA	13,369	69	14	1,641	32	2,304	4,577	0	0	4,732
52	Drexel U.	13,099	373	0	338	22	0	0	0	0	12,366
53	U. MN all campuses	13,007	5,154	233	2,886	177	357	0	38	0	4,162
54	U. Miami	12,992	0	9,663	2,352	21	635	0	0	0	321
55	U. VA all campuses	12,940	987	144	2,111	12	1,543	497	0	0	7,646
56	CO State U.	12,562	566	8,771	1,633	159	475	0	0	0	958
57	U. PA	12,519	2,432	0	5,372	672	1,423	0	0	0	2,620
58	Harvard U.	12,417	194	667	1,410	32	5,962	313	0	0	3,839
59	NC State U.	12,332	502	521	612	980	865	0	2	0	8,850
60	U. TX M. D. Anderson Cancer Ctr.	12,052	0	0	11,885	72	95	0	0	0	0
61	Brown U.	12,003	108	109	1,353	1,166	760	0	0	0	8,507
62	LA State U. all campuses	11,604	88	269	2,544	132	1,134	19	9	0	7,409
63	Rutgers, The State U. NJ all campuses	11,557	516	2,198	2,210	513	766	163	70	0	5,121
64	U. AL Huntsville, The	11,146	2,238	37	0	117	282	0	138	0	8,334
65	CA Institute of Technology	10,914	82	90	489	29	4,586	0	539	0	5,099
66	U. CA, Davis	10,146	409	118	3,972	220	429	0	0	0	4,998
67	U. MA Amherst	9,904	3,177	14	706	3	4,438	0	0	9	1,557
68	U. CA, Irvine	9,735	583	114	3,440	638	783	38	0	0	4,139
69	Columbia U. in the City of NY	9,483	2,896	937	4,098	0	193	0	66	0	1,293
70	U. Rochester	9,243	646	0	3,144	23	299	105	0	0	5,026
71	Wright State U. all campuses	9,184	1,827	23	2,529	46	1,225	702	0	0	2,832
72	U. of Notre Dame	9,166	609	0	466	0	1,240	55	0	1,036	5,760
73	Rice U.	8,884	0	0	248	216	3,830	65	0	0	4,525
74	U. AL Birmingham, The	8,866	255	0	6,759	0	212	0	0	0	1,640
75	WA State U.	8,759	0	0	88	18	2,912	0	84	0	5,657
76	U. DE	8,655	38	166	417	298	935	0	19	0	6,782
77	U. NE all campuses	8,456	347	123	4,104	54	1,985	39	0	0	1,804

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
78	U. CT all campuses	8,443	426	325	1,598	41	784	0	0	0	5,269
79	NM Institute of Mining and Technology	8,253	0	90	656	0	33	0	0	4,116	3,358
80	U. Southern MS	8,116	0	3,011	387	0	946	11	0	1,737	2,024
81	OR State U.	8,006	275	3,666	875	137	0	0	0	0	3,053
82	SUNY Stony Brook all campuses	7,980	853	85	1,814	144	2,237	560	0	0	2,287
83	Mercer U. all campuses	7,966	0	0	0	0	0	0	0	0	7,966
84	U. ME	7,822	127	3,316	78	0	2,460	0	0	0	1,841
85	George Washington U.	7,673	358	0	1,026	602	903	50	61	0	4,673
86	Old Dominion U.	7,509	10	98	157	46	49	13	0	0	7,136
87	U. RI	7,386	469	5,083	12	0	291	0	0	37	1,494
88	Clemson U.	7,381	145	0	422	21	345	257	0	0	6,191
89	Loma Linda U.	7,360	0	0	7,360	0	0	0	0	0	0
90	Wayne State U.	6,872	232	0	4,137	37	688	0	1	0	1,777
91	Auburn U. all campuses	6,869	44	0	2,266	0	584	0	7	0	3,968
92	TX Tech U.	6,623	0	4,893	187	17	187	0	0	0	1,339
93	San Diego State U.	6,612	0	62	1,012	20	19	271	24	0	5,204
94	U. CA, San Francisco	6,545	0	0	6,491	0	54	0	0	0	0
95	U. Cincinnati all campuses	6,507	0	0	2,301	29	475	76	0	0	3,626
96	Baylor C. of Medicine	6,433	0	0	6,433	0	0	0	0	0	0
97	U. NC Charlotte	6,402	1,426	0	0	0	4,512	0	0	0	464
98	Yale U.	6,250	1,720	0	1,742	0	497	320	0	0	1,971
99	Medical U. SC	6,242	0	0	6,242	0	0	0	0	0	0
100	Rensselaer Polytechnic Institute	6,207	76	0	0	446	246	0	652	0	4,787
101	OR Health & Science U.	6,101	2,963	0	972	0	0	2,166	0	0	0
102	C. of William and Mary all campuses	5,984	0	1,109	42	0	4,677	0	156	0	0
103	NY U.	5,983	2,578	0	2,190	660	309	0	0	246	0
104	U. IL Chicago	5,970	237	41	2,283	322	1,027	49	0	0	2,011
105	MI State U.	5,906	991	21	409	84	1,831	563	226	0	1,781
106	Wake Forest U.	5,770	0	0	4,486	1,021	263	0	0	0	0
107	U. MA Lowell	5,554	0	772	38	0	4,344	0	0	0	400
108	U. CA, Santa Cruz	5,512	183	1,399	110	0	1,843	0	0	0	1,977
109	Rochester Institute of Technology	5,332	1	0	0	0	1,761	0	0	0	3,570
110	U. of Medicine and Dentistry NJ	5,289	0	0	5,289	0	0	0	0	0	0
111	Lehigh U.	5,217	558	17	74	0	265	0	0	0	4,303
112	U. ID	5,175	1,013	0	868	1	835	0	0	0	2,458
113	IN U. all campuses	5,161	931	12	3,698	91	355	74	0	0	0
114	Emory U.	5,129	0	0	4,238	0	891	0	0	0	0
115	VA Commonwealth U.	5,042	0	0	2,680	0	111	0	0	0	2,251
116	NJ Institute of Technology	4,957	139	0	0	176	1,649	0	0	104	2,889

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
117	Washington U. St. Louis	4,941	1,903	1	1,472	0	216	119	0	0	1,230
118	U. Chicago	4,888	33	0	2,632	38	1,890	295	0	0	0
119	Syracuse U. all campuses	4,820	663	0	0	25	0	0	0	2,828	1,304
120	FL Atlantic U.	4,734	13	0	150	0	0	0	0	0	4,571
121	U. TX Southwestern Medical Ctr. Dallas	4,689	0	0	4,689	0	0	0	0	0	0
122	Brigham Young U. all campuses	4,636	422	0	310	15	454	0	3	0	3,432
123	MT State U. Bozeman	4,603	0	0	465	186	3,089	0	0	3	860
124	Air Force Institute of Technology	4,545	676	36	0	175	1,782	0	0	392	1,484
125	Desert Research Institute	4,530	0	2,347	0	0	0	0	0	2,183	0
126	WV U.	4,446	4	246	899	98	1,133	0	96	0	1,970
127	U. MO-Rolla	4,351	0	1,703	0	0	178	0	0	0	2,470
128	U. UT	4,214	1,692	0	1,022	88	1,036	30	0	0	346
129	U. Louisville	4,149	62	53	1,712	0	82	220	0	0	2,020
130	IA State U.	4,129	62	262	54	187	652	0	0	148	2,764
131	SD School of Mines and Technology	4,113	0	249	0	0	24	0	0	6	3,834
132	MI Technological U.	4,050	225	0	27	0	293	0	0	0	3,505
133	Jackson State U.	4,013	1,190	0	0	0	2,723	0	0	0	100
134	U.S. Naval Academy	3,992	152	150	0	584	678	0	60	0	2,368
135	U. AK Fairbanks all campuses	3,988	0	2,641	170	0	0	0	0	335	842
136	U. TX Health Science Ctr. Houston	3,952	0	0	3,952	0	0	0	0	0	0
137	U. KS all campuses	3,866	19	184	1,367	0	1,607	59	31	0	599
138	U. WA	3,845	0	289	1,040	53	0	0	0	0	2,463
139	U. TN all campuses	3,804	822	0	617	3	182	0	182	0	1,998
140	U. TX Medical Branch	3,802	0	0	3,144	0	0	0	0	0	658
141	U. AR main campus	3,599	0	74	0	0	1,377	0	66	0	2,082
142	Marshall U.	3,534	0	0	120	0	154	0	0	0	3,260
143	CA State U. Long Beach	3,356	0	0	51	0	218	0	0	0	3,087
144	U. OR	3,351	1,194	0	189	10	591	1,266	101	0	0
145	U. TX Health Science Ctr. San Antonio	3,262	0	0	3,262	0	0	0	0	0	0
146	Dartmouth C.	3,247	338	24	590	0	101	0	0	7	2,187
147	U. MO-Columbia	3,231	411	0	642	36	150	0	70	0	1,922
148	U. TX San Antonio	3,072	1,459	0	168	0	337	0	0	0	1,108
149	U. CA, Riverside	2,999	1,011	3	158	49	720	0	0	0	1,058
150	CO School of Mines	2,943	0	824	0	0	307	0	6	0	1,806
151	U. MD Baltimore County	2,858	1,552	149	496	176	299	0	16	0	170
152	NC Agricultural and Technical State U.	2,796	231	0	0	0	0	0	0	0	2,565
153	U. ND all campuses	2,713	139	624	1,828	0	62	0	0	0	60
154	Case Western Reserve U.	2,683	0	0	2,683	0	0	0	0	0	0
155	U. North TX	2,644	0	503	86	65	281	0	0	0	1,709

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
156	Tufts U.	2,522	0	0	786	173	716	47	13	0	787
157	U. TX Arlington	2,506	0	0	0	53	1,044	42	0	0	1,367
158	U. OK all campuses	2,501	210	779	250	0	118	253	44	0	847
159	Clark Atlanta U.	2,444	378	0	175	0	742	0	0	218	931
160	CUNY City C.	2,419	485	0	0	106	1,316	0	0	0	512
161	Southern Methodist U.	2,324	215	1,743	0	217	0	0	0	0	149
162	U. Denver	2,246	0	0	0	0	333	0	101	0	1,812
163	Central MI U.	2,230	0	0	0	0	2,230	0	0	0	0
164	Howard U.	2,225	70	0	1,048	0	122	0	0	0	985
165	FL A&M U.	2,216	0	0	243	0	0	0	0	0	1,973
166	U. NV, Reno	2,121	329	0	715	41	316	0	0	0	720
167	Thomas Jefferson U.	2,046	0	0	2,046	0	0	0	0	0	0
168	U. TX El Paso	2,030	30	69	4	171	161	0	15	162	1,418
169	TX A&M U. System Health Science Ctr.	1,998	0	0	1,505	0	0	0	0	0	493
170	Temple U.	1,952	0	0	1,284	0	417	0	0	0	251
171	U. KY all campuses	1,943	149	0	589	138	406	0	0	0	661
172	IL Institute of Technology	1,933	0	0	0	0	0	0	0	0	0
173	U. NH	1,914	0	423	114	0	0	0	74	0	1,303
174	U. MA Worcester	1,903	0	0	1,903	0	0	0	0	0	0
175	U. TX Dallas	1,903	213	313	571	11	536	8	30	34	187
176	Boise State U.	1,882	0	80	44	0	0	0	0	0	1,758
177	Medical C. WI	1,846	0	0	1,846	0	0	0	0	0	0
178	U. Houston	1,842	53	4	11	19	572	0	0	0	1,183
179	U. West FL	1,773	1,611	86	76	0	0	0	0	0	0
180	U. Tulsa	1,706	1,665	0	0	0	38	0	0	0	3
181	Worcester Polytechnic Institute	1,665	103	0	0	43	142	0	0	0	1,377
182	SUNY Binghamton	1,638	84	0	0	0	0	0	200	0	1,354
183	U. AL, The	1,621	54	44	0	0	334	0	73	0	1,116
184	Kent State U. all campuses	1,609	165	0	0	12	1,432	0	0	0	0
185	U. Redlands	1,609	0	1,609	0	0	0	0	0	0	0
186	U. MA Dartmouth	1,563	10	676	16	0	448	0	0	0	413
187	Northeastern U.	1,539	0	0	153	0	232	2	0	0	1,152
188	U. MT, The	1,535	0	0	720	0	815	0	0	0	0
189	U. Toledo	1,349	0	61	162	13	220	0	0	0	893
190	Southern IL U. Carbondale	1,343	0	79	666	0	157	0	0	0	441
191	Prairie View A&M U.	1,338	1,139	0	0	83	64	0	0	0	52
192	East Carolina U.	1,307	504	2	801	0	0	0	0	0	0
193	Clarkson U.	1,199	0	0	0	24	617	0	0	0	558
194	U. Memphis, The	1,192	0	0	265	324	76	292	0	0	235
195	U. Akron all campuses	1,172	0	0	0	40	760	101	0	0	271

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
196	OH U. all campuses	1,142	0	0	203	0	120	0	0	0	819
197	Southwest MO State U.	1,079	0	0	0	0	1,078	0	0	0	1
198	Oakland U.	1,053	0	0	0	0	0	0	0	0	1,053
199	U. PR Mayaguez Campus	1,033	0	152	0	54	406	0	0	0	421
200	Morgan State U.	1,030	0	0	0	0	0	0	0	0	1,030
201	Rockefeller U.	1,009	0	0	1,009	0	0	0	0	0	0
202	Fisk U.	1,000	0	0	0	0	1,000	0	0	0	0
203	Wellesley C.	993	0	0	0	0	0	0	0	993	0
204	ID State U.	968	0	143	0	15	810	0	0	0	0
205	Rush U.	949	0	0	949	0	0	0	0	0	0
206	U. VT	948	0	79	175	27	246	0	0	0	421
207	Indiana U. PA all campuses	944	216	0	0	0	0	55	0	297	376
208	Embry-Riddle Aeronautical U.	932	0	0	0	0	161	0	0	0	771
209	San Jose State U.	865	44	704	0	0	0	0	0	0	117
210	Eastern MI U.	860	0	0	0	0	21	0	0	0	839
211	TN State U.	764	0	0	4	52	0	0	0	0	708
212	Yeshiva U.	684	0	0	684	0	0	0	0	0	0
213	U. WI Milwaukee	680	0	483	59	81	0	0	1	0	56
214	U. MD Biotechnology Institute	667	0	103	564	0	0	0	0	0	0
215	Brandeis U.	649	160	0	386	0	0	103	0	0	0
216	SUNY Albany	644	179	78	3	0	163	0	136	0	85
217	U. MO-Kansas City	643	112	0	81	0	249	201	0	0	0
218	Catholic U. America, The	641	0	0	5	0	316	161	0	0	159
219	U. NC Wilmington	631	0	15	616	0	0	0	0	0	0
220	CA State U. Northridge	629	0	0	0	0	347	0	10	151	121
221	Meharry Medical C.	613	0	0	613	0	0	0	0	0	0
222	Polytechnic U.	600	0	0	0	0	0	0	0	0	600
223	CA State U. Los Angeles	571	0	0	0	34	3	2	65	0	467
224	Western MI U.	556	110	219	0	0	40	0	0	0	187
225	Rose-Hulman Institute of Technology	555	0	0	0	0	555	0	0	0	0
226	TX A&M U. Corpus Christi	473	212	166	0	0	0	0	0	0	95
227	NY Medical C.	454	0	0	454	0	0	0	0	0	0
228	Southern U. and A&M C. all campuses	442	0	0	0	0	315	0	118	0	9
229	CUNY Hunter C.	427	0	23	0	0	404	0	0	0	0
230	Northeastern OH Universities C. of Medicine	422	0	0	422	0	0	0	0	0	0
231	VA State U.	420	0	0	112	0	308	0	0	0	0
232	U. MA Boston	416	0	315	0	0	101	0	0	0	0
233	U. LA Lafayette	404	43	0	0	0	0	0	0	312	49
234	Elizabeth City State U.	378	0	0	0	378	0	0	0	0	0

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
235	Norfolk State U.	377	0	0	0	0	376	0	0	1	0
236	U. South AL	357	0	0	0	0	0	0	0	0	357
237	Albany Medical C.	351	0	0	351	0	0	0	0	0	0
238	Portland State U.	344 e	59 e	0 e	0 e	0 e	54 e	0 e	45 e	0 e	186 e
239	St. Louis U. all campuses	340 e	0 e	159 e	63 e	74 e	44 e	0 e	0 e	0 e	0 e
240	CUNY Queens C.	327	0	0	0	0	327	0	0	0	0
241	Marquette U.	327	0	0	0	0	140	0	0	0	187
242	FL Institute of Technology	310	310	0	0	0	0	0	0	0	0
243	Hampton U.	310	0	0	111	0	199	0	0	0	0
244	U. MO-St. Louis	297	0	0	0	107	190	0	0	0	0
245	Trinity U.	286	0	0	286	0	0	0	0	0	0
246	American U.	285	0	0	0	27	0	0	258	0	0
247	Northern AZ U.	282	0	0	96	0	186	0	0	0	0
248	Wichita State U.	279	29	0	0	0	0	0	0	0	250
249	NJ City U.	260	0	0	0	0	260	0	0	0	0
250	Central WA U.	255	255	0	0	0	0	0	0	0	0
251	U. North FL	248	0	0	183	0	65	0	0	0	0
252	Reed C.	238	0	0	112	0	126	0	0	0	0
253	U. MD Ctr. for Environmental Science	232	0	232	0	0	0	0	0	0	0
254	SD State U.	229	0	26	166	0	33	0	0	0	4
255	Baylor U.	211	0	0	188	23	0	0	0	0	0
256	TN Technological U.	203	0	0	28	0	0	0	0	0	175
257	NY Institute of Technology all campuses	201	0	0	0	0	0	0	0	0	201
258	Xavier U. LA	198	107	0	60	0	28	0	0	0	3
259	Loyola U. Chicago	189	0	0	189	0	0	0	0	0	0
260	U. TX-Pan American	186	0	27	0	95	0	0	0	0	64
261	St. Mary's U. (San Antonio, TX)	184	0	0	0	0	0	0	0	0	184
262	CA State U. Monterey Bay	180	0	180	0	0	0	0	0	0	0
263	Eastern WA U.	170	0	0	0	0	0	0	170	0	0
264	Lincoln U. (Lincoln University, PA)	168	0	0	168	0	0	0	0	0	0
265	Dillard U.	167	0	0	0	0	167	0	0	0	0
266	U. AR Little Rock	167	0	0	0	0	59	0	0	0	108
267	Albany State U.	158	0	0	0	0	0	0	0	158	0
268	Morehouse School of Medicine	158	0	0	158	0	0	0	0	0	0
269	Rowan U.	151	0	0	0	0	0	0	0	0	151
270	MT Tech of the U. MT	150	0	0	0	0	0	0	0	0	150
271	Tuskegee U.	150	0	0	35	0	0	0	0	0	115
272	U. Scranton	150	0	0	0	0	150	0	0	0	0
273	Wiley C.	145	0	0	0	0	145	0	0	0	0

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
274	Rosalind Franklin U. of Medicine and Science	142	0	0	30	0	0	112	0	0	0
275	St. Cloud State U.	135	0	27	108	0	0	0	0	0	0
276	Savannah State U.	122	0	0	0	0	0	0	0	0	122
277	TX A&M U. Kingsville	116	0	0	18	0	47	0	0	0	51
278	U. NC Chapel Hill	116	1	0	115	0	0	0	0	0	0
279	U. SD	113	0	0	73	0	40	0	0	0	0
280	U. PR Humacao U. C.	108	0	0	108	0	0	0	0	0	0
281	Alfred U. all campuses	107	0	0	0	0	0	0	0	0	107
282	CA State Polytechnic U. San Luis Obispo	102	0	0	27	0	0	0	0	0	75
283	Fayetteville State U.	98	0	0	98	0	0	0	0	0	0
284	Clark U.	93 e	0 e	0 e	0 e	0 e	93 e	0 e	0 e	0 e	0 e
285	U. GA	90	0	0	90	0	0	0	0	0	0
286	Southern IL U. Edwardsville	88	0	0	68	0	0	0	0	0	20
287	Wesleyan U.	87	0	0	0	12	75	0	0	0	0
288	Northern IL U.	86	0	0	0	24	0	62	0	0	0
289	Western KY U.	75	0	0	0	0	75	0	0	0	0
290	CA State U. San Bernardino	69	0	0	39	0	0	0	0	0	30
291	U. AR Pine Bluff	60	0	0	44	0	0	0	16	0	0
292	La Salle U.	57	0	0	57	0	0	0	0	0	0
293	Lafayette C.	56	0	0	56	0	0	0	0	0	0
294	Bowling Green State U. all campuses	55	0	0	0	0	55	0	0	0	0
295	Coastal Carolina U.	52	0	52	0	0	0	0	0	0	0
296	U. of the VI	52	0	0	52	0	0	0	0	0	0
297	Franklin & Marshall C.	49	0	48	1	0	0	0	0	0	0
298	Medical C. GA	49	0	0	49	0	0	0	0	0	0
299	Grambling State U.	48	0	0	0	48	0	0	0	0	0
300	CO State U. Pueblo	46	0	0	0	0	46	0	0	0	0
301	SUNY C. Oswego	43	43	0	0	0	0	0	0	0	0
302	U. PR Rio Piedras Campus	43	0	21	0	0	22	0	0	0	0
303	SUNY C. Buffalo	42	0	42	0	0	0	0	0	0	0
304	U. of Health Sciences	42	0	0	42	0	0	0	0	0	0
305	Charles R. Drew U. of Medicine and Science	39	0	0	39	0	0	0	0	0	0
306	Sul Ross State U.	38	0	0	0	38	0	0	0	0	0
307	CUNY Brooklyn C.	37	0	0	0	0	32	0	5	0	0
308	U. WI Stevens Point	37	0	0	0	0	37	0	0	0	0
309	Amherst C.	36	0	0	0	0	36	0	0	0	0
310	U. Richmond	36	0	0	15	21	0	0	0	0	0
311	GA State U.	30	17	8	0	0	5	0	0	0	0

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
312	Stephen F. Austin State U.	30	0	0	28	0	0	0	2	0	0
313	Eastern KY U.	27	0	0	27	0	0	0	0	0	0
314	SUNY C. Geneseo	27	0	0	0	0	27	0	0	0	0
315	C. Charleston	25	0	10	0	15	0	0	0	0	0
316	CUNY Herbert H. Lehman C.	24	0	0	0	24	0	0	0	0	0
317	Kirksville C. of Osteopathic Medicine	21	0	0	21	0	0	0	0	0	0
318	U. WI Stout	14	0	0	0	14	0	0	0	0	0
319	CUNY C. Staten Island	13	0	0	0	13	0	0	0	0	0
320	U. LA Monroe	10	0	0	10	0	0	0	0	0	0
321	St. Mary's C. MD	9	0	0	0	0	9	0	0	0	0
322	U. WI La Crosse	8	0	0	0	0	0	0	8	0	0
323	East TN State U.	7	0	0	7	0	0	0	0	0	0
324	James Madison U.	7	0	0	0	0	0	0	7	0	0
325	U. North TX Health Science Ctr. Ft. Worth	7	0	0	7	0	0	0	0	0	0
326	U. San Diego	6	0	0	6	0	0	0	0	0	0
327	Murray State U.	4	0	4	0	0	0	0	0	0	0
328	U. MD Baltimore	4	0	0	4	0	0	0	0	0	0
	Abilene Christian U.	0	0	0	0	0	0	0	0	0	0
	Albany C. of Pharmacy	0	0	0	0	0	0	0	0	0	0
	Alcorn State U.	0	0	0	0	0	0	0	0	0	0
	Allegheny C.	0	0	0	0	0	0	0	0	0	0
	Andrews U.	0	0	0	0	0	0	0	0	0	0
	Appalachian State U.	0	0	0	0	0	0	0	0	0	0
	AR State U. main campus	0	0	0	0	0	0	0	0	0	0
	Augsburg C.	0	0	0	0	0	0	0	0	0	0
	Augustana C. (Rock Island, IL)	0	0	0	0	0	0	0	0	0	0
	Augustana C. (Sioux Falls, SD)	0	0	0	0	0	0	0	0	0	0
	Ball State U.	0	0	0	0	0	0	0	0	0	0
	Barnard C.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Bates C.	0	0	0	0	0	0	0	0	0	0
	Benedict C.	0	0	0	0	0	0	0	0	0	0
	Bethune-Cookman C.	0	0	0	0	0	0	0	0	0	0
	Black Hills State U.	0	0	0	0	0	0	0	0	0	0
	Bluefield State C.	0	0	0	0	0	0	0	0	0	0
	Bowdoin C.	0	0	0	0	0	0	0	0	0	0
	Bowie State U.	0	0	0	0	0	0	0	0	0	0
	Bradley U.	0	0	0	0	0	0	0	0	0	0
	Bridgewater State C.	0	0	0	0	0	0	0	0	0	0
	Bryn Mawr C.	0	0	0	0	0	0	0	0	0	0

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Bucknell U.	0	0	0	0	0	0	0	0	0	0
	CA State Polytechnic U. Pomona	0	0	0	0	0	0	0	0	0	0
	CA State U. Dominguez Hills	0	0	0	0	0	0	0	0	0	0
	CA State U. Fresno	0	0	0	0	0	0	0	0	0	0
	CA State U. Fullerton	0	0	0	0	0	0	0	0	0	0
	Calvin C.	0	0	0	0	0	0	0	0	0	0
	Carleton C.	0	0	0	0	0	0	0	0	0	0
	Central CT State U.	0	0	0	0	0	0	0	0	0	0
	Chapman U.	0	0	0	0	0	0	0	0	0	0
	Christopher Newport U.	0	0	0	0	0	0	0	0	0	0
	Claffin U.	0	0	0	0	0	0	0	0	0	0
	Claremont Graduate U.	0	0	0	0	0	0	0	0	0	0
	Cleveland State U.	0	0	0	0	0	0	0	0	0	0
	Colby C.	0	0	0	0	0	0	0	0	0	0
	Colgate U.	0	0	0	0	0	0	0	0	0	0
	C. of the Holy Cross	0	0	0	0	0	0	0	0	0	0
	C. Wooster	0	0	0	0	0	0	0	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0	0	0
	CUNY Baruch C.	0	0	0	0	0	0	0	0	0	0
	CUNY Graduate Ctr.	0	0	0	0	0	0	0	0	0	0
	CUNY John Jay C. of Criminal Justice	0	0	0	0	0	0	0	0	0	0
	CUNY Medgar Evers C.	0	0	0	0	0	0	0	0	0	0
	CUNY York C.	0	0	0	0	0	0	0	0	0	0
	Denison U.	0	0	0	0	0	0	0	0	0	0
	DePaul U.	0	0	0	0	0	0	0	0	0	0
	Des Moines U. Osteopathic Medical Ctr.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Dickinson C.	0	0	0	0	0	0	0	0	0	0
	Drake U.	0	0	0	0	0	0	0	0	0	0
	Duquesne U.	0	0	0	0	0	0	0	0	0	0
	Eastern OR U.	0	0	0	0	0	0	0	0	0	0
	Evergreen State C.	0	0	0	0	0	0	0	0	0	0
	Fairfield U.	0	0	0	0	0	0	0	0	0	0
	FL Gulf Coast U.	0	0	0	0	0	0	0	0	0	0
	Fordham U.	0	0	0	0	0	0	0	0	0	0
	Ft. Lewis C.	0	0	0	0	0	0	0	0	0	0
	Ft. Valley State U.	0	0	0	0	0	0	0	0	0	0
	Furman U.	0	0	0	0	0	0	0	0	0	0
	Gallaudet U.	0	0	0	0	0	0	0	0	0	0
	GA Southern U.	0	0	0	0	0	0	0	0	0	0
	Grand Valley State U.	0	0	0	0	0	0	0	0	0	0

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Grinnell C.	0	0	0	0	0	0	0	0	0	0
	Gustavus Adolphus C.	0	0	0	0	0	0	0	0	0	0
	Hamilton C. (Clinton, NY)	0	0	0	0	0	0	0	0	0	0
	Hampshire C.	0	0	0	0	0	0	0	0	0	0
	Hartwick C.	0	0	0	0	0	0	0	0	0	0
	Hendrix C.	0	0	0	0	0	0	0	0	0	0
	Hope C.	0	0	0	0	0	0	0	0	0	0
	IL State U.	0	0	0	0	0	0	0	0	0	0
	IN State U. all campuses	0	0	0	0	0	0	0	0	0	0
	Iona C.	0	0	0	0	0	0	0	0	0	0
	Ithaca C.	0	0	0	0	0	0	0	0	0	0
	Jarvis Christian C.	0	0	0	0	0	0	0	0	0	0
	John Carroll U.	0	0	0	0	0	0	0	0	0	0
	Juniata C.	0	0	0	0	0	0	0	0	0	0
	Kalamazoo C.	0	0	0	0	0	0	0	0	0	0
	KS State U.	0	0	0	0	0	0	0	0	0	0
	Kennesaw State U.	0	0	0	0	0	0	0	0	0	0
	KY State U.	0	0	0	0	0	0	0	0	0	0
	Kettering U.	0	0	0	0	0	0	0	0	0	0
	Lake Forest C.	0	0	0	0	0	0	0	0	0	0
	Lamar U.	0	0	0	0	0	0	0	0	0	0
	Langston U.	0	0	0	0	0	0	0	0	0	0
	Lawrence Technological U.	0	0	0	0	0	0	0	0	0	0
	Lewis and Clark C.	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Jefferson City, MO)	0	0	0	0	0	0	0	0	0	0
	Loyola Marymount U.	0	0	0	0	0	0	0	0	0	0
	Macalester C.	0	0	0	0	0	0	0	0	0	0
	Maharishi U. of Management	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	MA C. of Pharmacy and Health Sciences	0	0	0	0	0	0	0	0	0	0
	McNeese State U.	0	0	0	0	0	0	0	0	0	0
	Medical C. OH	0	0	0	0	0	0	0	0	0	0
	Middle TN State U.	0	0	0	0	0	0	0	0	0	0
	Midwestern U. (Chicago, IL)	0	0	0	0	0	0	0	0	0	0
	Milwaukee School of Engineering	0	0	0	0	0	0	0	0	0	0
	MS Valley State U.	0	0	0	0	0	0	0	0	0	0
	Morehead State U.	0	0	0	0	0	0	0	0	0	0
	Mt. Holyoke C.	0	0	0	0	0	0	0	0	0	0
	Mt. Sinai School of Medicine	0	0	0	0	0	0	0	0	0	0
	Mt. St. Mary's C. (Los Angeles, CA)	0	0	0	0	0	0	0	0	0	0

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	National U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	New C. FL	0	0	0	0	0	0	0	0	0	0
	New England C. of Optometry	0	0	0	0	0	0	0	0	0	0
	NM Highlands U.	0	0	0	0	0	0	0	0	0	0
	Nicholls State U.	0	0	0	0	0	0	0	0	0	0
	Northeastern IL U.	0	0	0	0	0	0	0	0	0	0
	Northern KY U.	0	0	0	0	0	0	0	0	0	0
	Nova Southeastern U.	0	0	0	0	0	0	0	0	0	0
	Oberlin C.	0	0	0	0	0	0	0	0	0	0
	OR Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Pace U. all campuses	0	0	0	0	0	0	0	0	0	0
	PA C. of Optometry	0	0	0	0	0	0	0	0	0	0
	Philadelphia C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Pittsburg State U.	0	0	0	0	0	0	0	0	0	0
	Pitzer C.	0	0	0	0	0	0	0	0	0	0
	Pomona C.	0	0	0	0	0	0	0	0	0	0
	Ponce School of Medicine	0	0	0	0	0	0	0	0	0	0
	Providence C.	0	0	0	0	0	0	0	0	0	0
	Radford U.	0	0	0	0	0	0	0	0	0	0
	Rider U.	0	0	0	0	0	0	0	0	0	0
	Roanoke C.	0	0	0	0	0	0	0	0	0	0
	Roger Williams U. Bristol	0	0	0	0	0	0	0	0	0	0
	Saginaw Valley State U.	0	0	0	0	0	0	0	0	0	0
	Seattle U.	0	0	0	0	0	0	0	0	0	0
	Seton Hall U.	0	0	0	0	0	0	0	0	0	0
	Shaw U.	0	0	0	0	0	0	0	0	0	0
	Simmons C.	0	0	0	0	0	0	0	0	0	0
	Skidmore C.	0	0	0	0	0	0	0	0	0	0
	Smith C.	0	0	0	0	0	0	0	0	0	0
	Sonoma State U.	0	0	0	0	0	0	0	0	0	0
	Southeastern LA U.	0	0	0	0	0	0	0	0	0	0
	Southeastern OK State U.	0	0	0	0	0	0	0	0	0	0
	Southern CT State U.	0	0	0	0	0	0	0	0	0	0
	Southern OR U.	0	0	0	0	0	0	0	0	0	0
	Southern U. New Orleans	0	0	0	0	0	0	0	0	0	0
	Spelman C.	0	0	0	0	0	0	0	0	0	0
	St. Joseph's U.	0	0	0	0	0	0	0	0	0	0
	St. Olaf C.	0	0	0	0	0	0	0	0	0	0
	State U. West GA	0	0	0	0	0	0	0	0	0	0

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	SUNY C. Brockport	0	0	0	0	0	0	0	0	0	0
	SUNY C. Cortland	0	0	0	0	0	0	0	0	0	0
	SUNY C. of Optometry	0	0	0	0	0	0	0	0	0	0
	SUNY C. Old Westbury	0	0	0	0	0	0	0	0	0	0
	SUNY C. Plattsburgh	0	0	0	0	0	0	0	0	0	0
	SUNY Fredonia	0	0	0	0	0	0	0	0	0	0
	SUNY Purchase C.	0	0	0	0	0	0	0	0	0	0
	SUNY Upstate Medical U.	0	0	0	0	0	0	0	0	0	0
	Swarthmore C.	0	0	0	0	0	0	0	0	0	0
	Tarleton State U.	0	0	0	0	0	0	0	0	0	0
	Teachers C. Columbia U.	0	0	0	0	0	0	0	0	0	0
	TX A&M U. Commerce	0	0	0	0	0	0	0	0	0	0
	TX Christian U.	0	0	0	0	0	0	0	0	0	0
	TX State U. San Marcos	0	0	0	0	0	0	0	0	0	0
	TX Tech U. Health Science Ctr.	0	0	0	0	0	0	0	0	0	0
	TX Woman's U.	0	0	0	0	0	0	0	0	0	0
	Towson U.	0	0	0	0	0	0	0	0	0	0
	Trinity C. (Hartford, CT)	0	0	0	0	0	0	0	0	0	0
	Truman State U.	0	0	0	0	0	0	0	0	0	0
	Tulane U.	0	0	0	0	0	0	0	0	0	0
	Union C. (Schenectady, NY)	0	0	0	0	0	0	0	0	0	0
	U.S. Coast Guard Academy	0	0	0	0	0	0	0	0	0	0
	Universidad Central del Caribe	0	0	0	0	0	0	0	0	0	0
	U. AR for Medical Sciences	0	0	0	0	0	0	0	0	0	0
	U. CA Office of the President	0	0	0	0	0	0	0	0	0	0
	U. Central OK	0	0	0	0	0	0	0	0	0	0
	U. Detroit Mercy	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	U. Findlay, The	0	0	0	0	0	0	0	0	0	0
	U. GU	0	0	0	0	0	0	0	0	0	0
	U. Hartford	0	0	0	0	0	0	0	0	0	0
	U. HI Hilo	0	0	0	0	0	0	0	0	0	0
	U. Houston-Clear Lake	0	0	0	0	0	0	0	0	0	0
	U. Houston-Downtown	0	0	0	0	0	0	0	0	0	0
	U. IL Springfield	0	0	0	0	0	0	0	0	0	0
	U. NC Asheville	0	0	0	0	0	0	0	0	0	0
	U. NC Greensboro	0	0	0	0	0	0	0	0	0	0
	U. Northern CO	0	0	0	0	0	0	0	0	0	0
	U. Northern IA	0	0	0	0	0	0	0	0	0	0
	U. Portland	0	0	0	0	0	0	0	0	0	0

TABLE 72. Federally financed R&D expenditures at universities and colleges, financed by the Department of Defense, ranked by DOD R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOD R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	U. Puget Sound	0	0	0	0	0	0	0	0	0	0
	U. San Francisco	0	0	0	0	0	0	0	0	0	0
	U. of St. Thomas (St. Paul, MN)	0	0	0	0	0	0	0	0	0	0
	U. DC	0	0	0	0	0	0	0	0	0	0
	U. of the Pacific	0	0	0	0	0	0	0	0	0	0
	U. of the Sciences Philadelphia	0	0	0	0	0	0	0	0	0	0
	U. WI Eau Claire	0	0	0	0	0	0	0	0	0	0
	U. WI Green Bay	0	0	0	0	0	0	0	0	0	0
	U. WI Oshkosh	0	0	0	0	0	0	0	0	0	0
	U. WI Parkside	0	0	0	0	0	0	0	0	0	0
	U. WI River Falls	0	0	0	0	0	0	0	0	0	0
	U. WI Superior	0	0	0	0	0	0	0	0	0	0
	U. WI Whitewater	0	0	0	0	0	0	0	0	0	0
	Valparaiso U.	0	0	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0	0	0
	Wabash C.	0	0	0	0	0	0	0	0	0	0
	West Chester U. PA	0	0	0	0	0	0	0	0	0	0
	West TX A&M U.	0	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	WV State C.	0	0	0	0	0	0	0	0	0	0
	Western Carolina U.	0	0	0	0	0	0	0	0	0	0
	Western IL U.	0	0	0	0	0	0	0	0	0	0
	Western U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	Western WA U.	0	0	0	0	0	0	0	0	0	0
	Whitman C.	0	0	0	0	0	0	0	0	0	0
	Wilkes U.	0	0	0	0	0	0	0	0	0	0
	Willamette U.	0	0	0	0	0	0	0	0	0	0
	Youngstown State U.	0	0	0	0	0	0	0	0	0	0

e = estimated.

DOD = Department of Defense.

nec = not elsewhere classified.

NOTES: Institutions that are not listed in this table did not provide federally financed R&D expenditures by federal agency. Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	940,268	32,200	68,469	143,878	6,899	364,673	572	5,259	10,700	305,535
1	MA Institute of Technology	69,263	413	2,165	207	204	53,508	0	190	403	12,173
2	U. Rochester	49,173	103	0	0	0	4,334	37	0	752	43,947
3	U. WI Madison	28,446	1,612	1,266	2,434	14	11,591	0	0	0	11,529
4	U. IL Urbana-Champaign	25,400	5,969	1,968	766	39	7,021	70	0	24	9,543
5	U. TN all campuses	24,518	4,326	641	3,749	50	6,829	0	231	402	8,290
6	U. CA, Los Angeles	22,482	0	522	6,755	0	9,799	0	0	0	5,406
7	Stanford U.	20,957	628	1,989	7,443	55	2,330	0	0	0	8,512
8	U. MI all campuses	19,657	288	31	3,898	0	5,014	0	45	13	10,368
9	U. TX Austin	16,718	591	3,219	186	0	8,624	0	341	0	3,757
10	U. WA	15,902	0	1,358	3,482	206	7,502	0	0	0	3,354
11	CA Institute of Technology	14,475	107	310	2,810	79	8,835	0	0	0	2,334
12	TX A&M U. all campuses	14,095	1,357	454	850	53	4,886	0	84	0	6,411
13	PA State U. all campuses	14,016	163	1,018	996	7	3,894	0	1	0	7,937
14	U. CA, Davis	13,536	117	5,511	2,674	179	2,390	0	0	0	2,665
15	U. GA	13,073	0	57	12,804	0	180	0	0	0	32
16	U. NV, Reno	12,543	0	2,667	1,228	0	5,633	0	0	0	3,015
17	OH State U. all campuses	12,470	577	241	1,827	0	5,154	0	0	0	4,671
18	U. CA, San Diego	12,085	1,134	1,457	859	0	5,401	0	217	0	3,017
19	U. ND all campuses	10,942	0	183	0	0	6	0	0	0	10,753
20	Catholic U. America, The	10,388	0	0	0	0	10,325	0	0	0	63
21	WV U.	10,309	0	3,165	333	48	435	0	96	0	6,232
22	Harvard U.	10,052	0	250	4,451	0	4,923	0	114	0	314
23	Yale U.	9,908	0	356	643	0	8,040	0	0	0	869
24	Purdue U. all campuses	9,818	0	0	1,652	49	3,841	0	0	632	3,644
25	MI State U.	9,286	0	270	5,120	0	3,258	0	0	0	638
26	GA Institute of Technology all campuses	9,240	756	766	307	62	1,366	0	106	35	5,842
27	Desert Research Institute	9,182	0	5,947	0	0	0	0	0	3,235	0
28	U. FL	9,068	12	0	1,099	0	4,071	0	7	0	3,879
29	U. MD College Park	9,046	158	834	331	0	5,594	0	0	0	2,129
30	U. NM all campuses	8,530	978	139	1,836	335	1,468	3	502	22	3,247
31	U. UT	8,459	460	557	1,099	0	1,484	0	0	0	4,859
32	Princeton U.	8,138	368	1,059	0	20	5,203	0	0	0	1,488
33	SUNY Stony Brook all campuses	8,125	80	1,042	2,288	578	3,870	0	10	0	257
34	U. Chicago	8,008	0	598	201	0	7,082	0	127	0	0
35	Duke U.	7,997	0	1,074	908	0	5,379	0	177	0	459
36	Carnegie Mellon U.	7,923	916	0	0	60	2,865	0	66	0	4,016
37	Northwestern U.	7,760	0	0	9	0	4,347	0	0	0	3,404
38	WA State U.	7,634	0	0	2,616	0	3,738	0	0	51	1,229

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
39	MS State U.	7,579	10	39	126	37	2,293	0	0	0	5,074
40	U. CO all campuses	7,500	90	501	1,223	364	4,862	0	0	0	460
41	U. PA	7,171	0	0	1,095	0	5,488	0	0	0	588
42	Cornell U. all campuses	6,922	0	0	554	0	1,869	0	0	0	4,499
43	U. MA Amherst	6,911	0	124	4,650	0	1,378	0	0	0	759
44	U. CA, Santa Barbara	6,865	392	226	0	0	2,736	0	122	0	3,389
45	U. MN all campuses	6,610	279	0	1,510	41	3,262	0	4	0	1,514
46	U. CA, Berkeley	6,417	0	360	1,314	96	2,250	0	0	0	2,397
47	U. of Notre Dame	6,376	48	0	26	0	5,241	52	0	93	916
48	VA Polytechnic Institute and State U.	6,323	0	1,828	210	0	967	0	0	0	3,318
49	FL State U.	6,304	271	2,703	190	0	2,738	0	0	0	402
50	IA State U.	5,863	3	1,073	608	0	2,521	0	0	0	1,658
51	U. CA, Irvine	5,764	87	140	921	0	4,348	0	0	0	268
52	CO State U.	5,548	0	1,559	1,023	0	1,592	0	0	0	1,374
53	U. of the VI	5,491	0	0	5,491	0	0	0	0	0	0
54	NC State U.	5,477	237	0	483	0	2,457	0	0	0	2,300
55	U. Southern CA	5,351	2,648	667	19	0	896	0	0	0	1,121
56	Boston U.	5,137	0	77	98	0	3,351	0	0	492	1,119
57	OR State U.	5,090	0	306	2,493	0	235	0	0	0	2,056
58	U. SC all campuses	4,710	31	635	406	0	1,511	0	834	62	1,231
59	Rensselaer Polytechnic Institute	4,484	78	201	26	158	297	0	0	0	3,724
60	U. AL, The	4,373	0	742	328	0	1,002	0	0	0	2,301
61	Rutgers, The State U. NJ all campuses	4,296	0	525	427	0	1,602	0	0	0	1,742
62	U. Pittsburgh all campuses	4,280	0	0	206	0	1,647	0	0	0	2,427
63	IN U. all campuses	3,933	458	117	146	0	3,212	0	0	0	0
64	U. KS all campuses	3,849	0	1,280	0	0	1,433	0	0	0	1,136
65	Medical U. SC	3,809	0	0	3,809	0	0	0	0	0	0
66	U. AZ	3,797	0	0	1,042	83	2,015	0	57	0	600
67	CO School of Mines	3,619	0	209	0	0	1,156	0	0	0	2,254
68	Wayne State U.	3,553	0	0	304	0	3,006	0	0	0	243
69	U. IL Chicago	3,540	6	283	96	0	1,588	0	0	0	1,567
70	Vanderbilt U.	3,486	9	0	127	0	1,829	0	0	0	1,521
71	U. CT all campuses	3,459	0	0	1,977	0	512	0	0	0	970
72	NM State U. all campuses	3,393	0	0	0	0	494	6	0	0	2,893
73	U. NE all campuses	3,384	121	1,194	1,284	0	392	0	0	0	393
74	U. Tulsa	3,346	0	0	0	0	86	0	0	0	3,260
75	Charles R. Drew U. of Medicine and Science	3,272	0	0	3,272	0	0	0	0	0	0
76	U. DE	3,234	0	372	0	0	1,192	0	0	0	1,670
77	MT State U. Bozeman	3,232	12	13	603	0	897	0	0	334	1,373

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
78	U. CA, Santa Cruz	3,206	0	34	7	0	3,056	0	0	0	109
79	AZ State U. main campus	3,162	28	275	459	0	1,482	0	0	0	918
80	Rice U.	3,140	184	108	155	27	1,751	0	0	0	915
81	U. HI Manoa	3,117	0	41	372	0	2,215	0	0	489	0
82	Brown U.	3,094	111	0	0	367	1,993	0	179	0	444
83	U. MO-Rolla	3,065	0	50	0	0	289	0	0	0	2,726
84	U. VA all campuses	3,064	73	0	131	0	2,355	0	0	0	505
85	Washington U. St. Louis	2,961	0	0	1,517	0	1,036	0	0	0	408
86	U. Central FL	2,932	0	2,740	0	0	0	0	0	0	192
87	U. OR	2,828	709	0	56	0	2,043	0	0	0	20
88	NY U.	2,822	405	0	505	1,679	233	0	0	0	0
89	Tulane U.	2,793	0	71	1,698	346	329	0	347	0	2
90	U. Houston	2,748	905	183	0	71	656	0	0	0	933
91	Auburn U. all campuses	2,747	0	73	197	0	1,614	0	0	0	863
92	CUNY Queens C.	2,737	0	0	2,737	0	0	0	0	0	0
93	U. OK all campuses	2,713	0	420	806	0	1,277	0	13	0	197
94	NM Institute of Mining and Technology	2,707	0	203	0	0	3	0	0	0	2,501
95	Clark Atlanta U.	2,592	0	0	0	0	455	0	0	1,962	175
96	LA State U. all campuses	2,569	0	251	778	0	1,291	0	0	0	249
97	U. Cincinnati all campuses	2,537	0	0	853	0	688	0	0	0	996
98	U. CA, Riverside	2,511	0	64	212	0	2,213	0	0	0	22
99	TX Tech U.	2,442	0	13	533	32	1,288	0	0	0	576
100	Lehigh U.	2,436	0	0	0	0	953	0	0	0	1,483
101	Brigham Young U. all campuses	2,365	0	41	152	0	487	0	0	0	1,685
102	U. MO-Columbia	2,295	0	16	995	0	309	0	84	0	891
103	VA State U.	2,161	0	0	2,161	0	0	0	0	0	0
104	U. NC Chapel Hill	2,128	0	687	211	81	1,149	0	0	0	0
105	IL Institute of Technology	2,083	0	0	0	0	0	0	0	0	0
106	Fisk U.	2,000	0	0	0	0	2,000	0	0	0	0
107	U. AK Fairbanks all campuses	1,986	0	271	21	0	71	0	0	0	1,623
108	ID State U.	1,865	0	0	14	0	1,781	0	0	1	69
109	U. MS all campuses	1,794	0	0	85	0	668	0	0	0	1,041
110	U. ID	1,655	8	555	573	0	79	0	0	0	440
111	Howard U.	1,549	135	0	86	57	3	0	0	0	1,268
112	U. AL Birmingham, The	1,544	0	0	254	0	262	0	0	0	1,028
113	Old Dominion U.	1,532	0	11	160	143	1,090	0	0	0	128
114	Drexel U.	1,518	0	0	200	0	225	0	0	0	1,093
115	Syracuse U. all campuses	1,484	0	0	0	0	889	0	75	0	520
116	Emory U.	1,433	0	0	91	201	1,141	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
117	Clemson U.	1,369	0	0	0	0	395	0	0	0	974
118	UT State U.	1,352	1	7	1,330	0	3	8	0	0	3
119	U. TX El Paso	1,332	10	151	0	0	75	0	0	0	1,096
120	U. MT, The	1,325	353	0	701	0	269	0	0	0	2
121	George Washington U.	1,287	0	104	0	0	1,130	0	0	0	53
122	Brandeis U.	1,265	231	0	340	0	694	0	0	0	0
123	Worcester Polytechnic Institute	1,252	0	0	0	49	0	0	0	0	1,203
124	C. of William and Mary all campuses	1,214	33	133	0	0	1,048	0	0	0	0
125	U. VT	1,187	0	0	778	0	265	0	0	0	144
126	Alcorn State U.	1,179	0	0	1,179	0	0	0	0	0	0
127	U. AR main campus	1,149	0	0	100	0	618	0	1	0	430
128	U. Scranton	1,143	0	0	1,088	0	55	0	0	0	0
129	Western MI U.	1,138	0	0	0	0	1,092	0	0	0	46
130	Southern Methodist U.	1,125	0	273	0	0	852	0	0	0	0
131	OK State U. all campuses	1,115	0	0	160	0	318	0	61	0	576
132	Tufts U.	1,110	0	0	67	0	891	0	0	0	152
133	Stevens Institute of Technology	1,083	0	103	0	0	631	0	0	0	349
134	CUNY Hunter C.	1,049	0	0	0	0	1,049	0	0	0	0
135	U. TX Arlington	1,042	0	0	0	0	855	0	0	0	187
136	Rockefeller U.	1,032	0	0	116	0	916	0	0	0	0
137	SUNY Albany	1,031	0	641	0	0	281	0	0	0	109
138	U. GU	1,030	0	0	0	0	0	0	466	564	0
139	MT Tech of the U. MT	1,006	0	252	8	0	0	0	0	0	746
140	U. South AL	991	0	0	0	0	36	0	0	0	955
141	Dartmouth C.	946	0	4	0	0	127	0	0	0	815
142	U. NH	873	0	269	0	0	604	0	0	0	0
143	Portland State U.	859 e	58 e	0 e	189 e	0 e	497 e	0 e	23 e	0 e	92 e
144	U. LA Lafayette	834	143	37	26	0	26	0	0	385	217
145	SUNY Buffalo all campuses	831	0	84	94	0	466	0	0	0	187
146	Western Carolina U.	825	100	0	725	0	0	0	0	0	0
147	U. Southern MS	811	0	108	58	0	645	0	0	0	0
148	Northern AZ U.	805	0	93	599	0	61	0	0	0	52
149	U. ME	784	0	226	236	0	0	0	0	0	322
150	SUNY Binghamton	767	128	0	0	0	40	0	71	0	528
151	Cleveland State U.	761	0	0	85	0	0	0	0	0	676
152	U. Louisville	714	0	0	179	22	244	0	0	0	269
153	Clarkson U.	705	0	0	0	46	109	0	0	0	550
154	U. West FL	704	422	0	0	0	0	0	282	0	0
155	Woods Hole Oceanographic Institution	691	0	691	0	0	0	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
156	NJ Institute of Technology	686	0	0	0	28	105	0	0	0	553
157	U. CA, San Francisco	685	0	0	415	0	270	0	0	0	0
158	Hampton U.	684	0	0	0	139	348	0	0	0	197
159	CA State U. San Bernardino	673	664	0	0	0	0	0	9	0	0
160	Prairie View A&M U.	668	0	0	0	49	301	0	0	0	318
161	OR Institute of Technology	657	0	0	0	0	0	0	0	0	657
162	NY Institute of Technology all campuses	634	0	0	0	0	0	0	0	0	634
163	Thomas Jefferson U.	623	0	0	623	0	0	0	0	0	0
164	U. Dayton	611	0	0	1	0	0	0	0	0	610
165	U. Miami	604	0	81	32	0	0	0	0	0	491
166	Jackson State U.	591	507	0	45	0	0	0	0	39	0
167	Xavier U. LA	582	0	264	192	0	59	0	0	0	67
168	Kent State U. all campuses	581	0	0	0	0	581	0	0	0	0
169	Hartwick C.	578	15	130	200	0	118	0	0	115	0
170	U. IA	574	0	0	538	0	0	0	0	0	36
171	U. TX Medical Branch	573	0	0	573	0	0	0	0	0	0
172	U. PR Mayaguez Campus	560	0	0	43	8	505	0	0	0	4
173	OR Health & Science U.	559	542	0	17	0	0	0	0	0	0
174	U. WI Milwaukee	546	0	0	11	0	334	0	0	0	201
175	Rowan U.	543	0	0	0	543	0	0	0	0	0
176	Wright State U. all campuses	533	15	0	286	0	99	1	9	0	123
177	Rochester Institute of Technology	531	0	0	0	0	125	0	0	0	406
178	U. Toledo	527	0	93	0	0	434	0	0	0	0
179	U. MA Lowell	519	0	123	0	0	365	0	0	0	31
180	Columbia U. in the City of NY	514	0	0	0	0	0	384	0	130	0
181	Temple U.	490	0	0	0	0	490	0	0	0	0
182	TN Technological U.	490	0	0	0	0	142	0	0	0	348
183	U. TX M. D. Anderson Cancer Ctr.	488	0	0	488	0	0	0	0	0	0
184	FL Gulf Coast U.	470	0	470	0	0	0	0	0	0	0
185	Alfred U. all campuses	445	0	0	0	0	0	0	0	0	445
186	Southern IL U. Carbondale	432	0	0	213	0	0	0	0	218	1
187	U. MD Biotechnology Institute	423	0	62	361	0	0	0	0	0	0
188	Hampshire C.	412	285	0	0	0	0	0	0	127	0
189	U. MD Baltimore County	409	55	31	0	0	323	0	0	0	0
190	U. Akron all campuses	398	0	0	0	0	241	0	0	0	157
191	NC Agricultural and Technical State U.	387	0	0	0	0	55	0	0	0	332
192	GA State U.	386	0	27	0	0	295	0	64	0	0
193	Baylor C. of Medicine	366	0	0	366	0	0	0	0	0	0
194	CUNY City C.	353	0	0	0	0	353	0	0	0	0
195	VA Commonwealth U.	340	0	0	0	0	257	0	0	0	83

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
196	Morgan State U.	316	0	0	243	0	0	0	0	0	73
197	Case Western Reserve U.	310	0	0	310	0	0	0	0	0	0
198	U. TX Dallas	309	35	51	92	2	87	1	5	6	30
199	OH U. all campuses	306	0	0	10	0	160	0	0	0	136
200	Savannah State U.	304	0	303	0	0	0	0	0	0	1
201	SD State U.	295	0	0	245	0	14	0	0	0	36
202	Youngstown State U.	292	0	0	0	0	121	0	0	0	171
203	Loma Linda U.	290	0	0	290	0	0	0	0	0	0
204	Boise State U.	286	0	207	0	0	79	0	0	0	0
205	San Diego State U.	285	0	4	0	0	115	0	0	0	166
206	SUNY C. Geneseo	278	0	0	0	0	278	0	0	0	0
207	Duquesne U.	269	0	0	0	0	269	0	0	0	0
208	U. South FL	263	0	124	0	0	0	0	0	0	139
209	U. Memphis, The	257	0	155	0	0	102	0	0	0	0
210	U. North TX Health Science Ctr. Ft. Worth	241	0	0	241	0	0	0	0	0	0
211	U. TX Health Science Ctr. Houston	237	0	0	237	0	0	0	0	0	0
212	U. NC Charlotte	236	32	0	0	0	0	0	0	0	204
213	Medical C. GA	233	0	0	233	0	0	0	0	0	0
214	Middle TN State U.	230	53	0	0	0	177	0	0	0	0
215	Western KY U.	227	0	0	0	0	194	0	0	33	0
216	San Jose State U.	211	0	211	0	0	0	0	0	0	0
217	Swarthmore C.	207	0	0	0	0	207	0	0	0	0
218	U. AR Little Rock	200	0	0	0	0	0	0	0	0	200
219	U. of Medicine and Dentistry NJ	200	0	0	200	0	0	0	0	0	0
220	East Carolina U.	195	0	2	27	0	166	0	0	0	0
221	West TX A&M U.	193	0	157	32	0	0	0	0	0	4
222	MI Technological U.	191	0	0	0	0	0	0	0	0	191
223	U.S. Naval Academy	184	0	0	0	0	0	0	0	0	184
224	TX A&M U. Kingsville	176	0	86	0	0	44	0	0	0	46
225	SD School of Mines and Technology	171	0	70	0	0	0	0	0	0	101
226	Clark U.	168 e	0 e	0 e	0 e	0 e	168 e	0 e	0 e	0 e	0 e
227	U. RI	167	0	69	98	0	0	0	0	0	0
228	Northeastern U.	163	0	0	122	0	41	0	0	0	0
229	U. MO-Kansas City	160	0	0	0	0	160	0	0	0	0
230	Mt. Holyoke C.	159	0	0	0	0	159	0	0	0	0
231	TX A&M U. System Health Science Ctr.	144	0	0	144	0	0	0	0	0	0
232	SUNY C. Old Westbury	142	0	0	0	0	142	0	0	0	0
233	FL Institute of Technology	137	0	14	0	0	123	0	0	0	0
234	U. North TX	137	32	0	0	0	105	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
235	Valparaiso U.	132	0	0	0	0	132	0	0	0	0
236	Stephen F. Austin State U.	129	0	0	129	0	0	0	0	0	0
237	Abilene Christian U.	124	0	0	0	0	124	0	0	0	0
238	Medical C. WI	123	0	0	123	0	0	0	0	0	0
239	Tuskegee U.	122	0	0	0	0	91	0	0	0	31
240	Air Force Institute of Technology	119	0	0	0	15	104	0	0	0	0
241	Morehouse School of Medicine	118	0	0	118	0	0	0	0	0	0
242	Dickinson C.	116	0	0	0	0	116	0	0	0	0
243	Southern U. and A&M C. all campuses	112	0	0	0	0	112	0	0	0	0
244	ND State U. all campuses	111	0	0	63	0	40	0	0	0	8
245	U. MA Boston	111	0	0	0	0	24	0	0	0	87
246	FL Atlantic U.	109	0	0	0	0	106	0	0	0	3
247	CA State U. Fullerton	105	0	0	0	0	105	0	0	0	0
248	James Madison U.	105	0	0	0	36	0	0	0	0	69
249	Southern IL U. Edwardsville	98	0	0	0	0	0	0	84	14	0
250	U. MA Worcester	97	0	0	97	0	0	0	0	0	0
251	Marquette U.	93	0	0	93	0	0	0	0	0	0
252	Wichita State U.	93	0	11	9	0	17	0	0	0	56
253	Eastern WA U.	91	0	0	91	0	0	0	0	0	0
254	George Mason U.	90	17	0	0	73	0	0	0	0	0
255	Teachers C. Columbia U.	90	0	0	0	0	0	10	80	0	0
256	Embry-Riddle Aeronautical U.	82	0	0	0	0	82	0	0	0	0
257	CUNY C. Staten Island	79	0	0	0	0	0	0	0	0	79
258	FL A&M U.	78	0	0	0	13	0	0	0	65	0
259	Bradley U.	77	0	0	72	0	0	0	0	0	5
260	Reed C.	75	0	0	0	0	75	0	0	0	0
261	Northern IL U.	72	0	0	0	0	72	0	0	0	0
262	CA State U. Northridge	69	0	0	0	0	69	0	0	0	0
263	U. AL Huntsville, The	63	18	10	0	0	8	0	0	0	27
264	Fairfield U.	61	0	0	0	0	61	0	0	0	0
265	TN State U.	61	0	0	0	0	0	0	4	0	57
266	Union C. (Schenectady, NY)	57	0	0	0	0	0	0	57	0	0
267	CUNY Herbert H. Lehman C.	55	0	0	0	55	0	0	0	0	0
268	Pace U. all campuses	54	0	0	0	0	0	0	0	0	54
269	Grambling State U.	53	0	53	0	0	0	0	0	0	0
270	Murray State U.	53	0	0	0	0	0	0	0	0	53
271	U. San Diego	50	0	0	0	0	50	0	0	0	0
272	U. Denver	47	0	0	23	0	3	0	0	0	21
273	U. Richmond	47	0	0	0	0	47	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
274	CA State U. Los Angeles	44	0	0	0	0	44	0	0	0	0
275	TX A&M U. Commerce	44	0	0	0	0	44	0	0	0	0
276	American U.	41	0	0	0	0	0	0	0	0	41
277	Lincoln U. (Lincoln University, PA)	39	0	0	39	0	0	0	0	0	0
278	Fayetteville State U.	38	0	0	0	0	38	0	0	0	0
279	Roanoke C.	35	0	0	35	0	0	0	0	0	0
280	TX A&M U. Corpus Christi	34	0	34	0	0	0	0	0	0	0
281	Central MI U.	30	0	0	0	0	30	0	0	0	0
282	Christopher Newport U.	28	0	0	0	0	28	0	0	0	0
283	Coastal Carolina U.	26	0	0	0	0	26	0	0	0	0
284	U. MA Dartmouth	23	0	0	0	0	23	0	0	0	0
285	Southeastern LA U.	22	0	0	0	0	22	0	0	0	0
286	U. NC Asheville	21	0	21	0	0	0	0	0	0	0
287	Ft. Lewis C.	16	0	0	0	0	16	0	0	0	0
288	U. SD	15	0	0	15	0	0	0	0	0	0
289	TX Christian U.	14	0	0	0	0	0	0	14	0	0
290	Oberlin C.	13	0	13	0	0	0	0	0	0	0
291	U. WI Green Bay	13	0	13	0	0	0	0	0	0	0
292	Smith C.	12	0	0	12	0	0	0	0	0	0
293	Hamilton C. (Clinton, NY)	11	0	0	0	0	11	0	0	0	0
294	U. TX-Pan American	9	0	0	0	0	0	0	0	0	9
295	Whitman C.	7	0	7	0	0	0	0	0	0	0
296	Lamar U.	6	0	0	0	0	0	0	0	0	6
297	U. AR for Medical Sciences	6	0	0	6	0	0	0	0	0	0
298	Baylor U.	2	0	0	0	0	0	0	0	2	0
299	St. Louis U. all campuses	2 e	0 e	2 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
300	U.S. Coast Guard Academy	1	0	0	0	0	1	0	0	0	0
	Albany C. of Pharmacy	0	0	0	0	0	0	0	0	0	0
	Albany Medical C.	0	0	0	0	0	0	0	0	0	0
	Albany State U.	0	0	0	0	0	0	0	0	0	0
	Allegheny C.	0	0	0	0	0	0	0	0	0	0
	Amherst C.	0	0	0	0	0	0	0	0	0	0
	Andrews U.	0	0	0	0	0	0	0	0	0	0
	Appalachian State U.	0	0	0	0	0	0	0	0	0	0
	AR State U. main campus	0	0	0	0	0	0	0	0	0	0
	Augsburg C.	0	0	0	0	0	0	0	0	0	0
	Augustana C. (Rock Island, IL)	0	0	0	0	0	0	0	0	0	0
	Augustana C. (Sioux Falls, SD)	0	0	0	0	0	0	0	0	0	0
	Ball State U.	0	0	0	0	0	0	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Barnard C.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Bates C.	0	0	0	0	0	0	0	0	0	0
	Benedict C.	0	0	0	0	0	0	0	0	0	0
	Bethune-Cookman C.	0	0	0	0	0	0	0	0	0	0
	Black Hills State U.	0	0	0	0	0	0	0	0	0	0
	Bluefield State C.	0	0	0	0	0	0	0	0	0	0
	Bowdoin C.	0	0	0	0	0	0	0	0	0	0
	Bowie State U.	0	0	0	0	0	0	0	0	0	0
	Bowling Green State U. all campuses	0	0	0	0	0	0	0	0	0	0
	Bridgewater State C.	0	0	0	0	0	0	0	0	0	0
	Bryn Mawr C.	0	0	0	0	0	0	0	0	0	0
	Bucknell U.	0	0	0	0	0	0	0	0	0	0
	CA State Polytechnic U. Pomona	0	0	0	0	0	0	0	0	0	0
	CA State Polytechnic U. San Luis Obispo	0	0	0	0	0	0	0	0	0	0
	CA State U. Dominguez Hills	0	0	0	0	0	0	0	0	0	0
	CA State U. Fresno	0	0	0	0	0	0	0	0	0	0
	CA State U. Long Beach	0	0	0	0	0	0	0	0	0	0
	CA State U. Monterey Bay	0	0	0	0	0	0	0	0	0	0
	Calvin C.	0	0	0	0	0	0	0	0	0	0
	Carleton C.	0	0	0	0	0	0	0	0	0	0
	Central CT State U.	0	0	0	0	0	0	0	0	0	0
	Central WA U.	0	0	0	0	0	0	0	0	0	0
	Chapman U.	0	0	0	0	0	0	0	0	0	0
	Clafin U.	0	0	0	0	0	0	0	0	0	0
	Claremont Graduate U.	0	0	0	0	0	0	0	0	0	0
	Colby C.	0	0	0	0	0	0	0	0	0	0
	Colgate U.	0	0	0	0	0	0	0	0	0	0
	C. Charleston	0	0	0	0	0	0	0	0	0	0
	C. of the Holy Cross	0	0	0	0	0	0	0	0	0	0
	C. Wooster	0	0	0	0	0	0	0	0	0	0
	CO State U. Pueblo	0	0	0	0	0	0	0	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0	0	0
	CUNY Baruch C.	0	0	0	0	0	0	0	0	0	0
	CUNY Brooklyn C.	0	0	0	0	0	0	0	0	0	0
	CUNY Graduate Ctr.	0	0	0	0	0	0	0	0	0	0
	CUNY John Jay C. of Criminal Justice	0	0	0	0	0	0	0	0	0	0
	CUNY Medgar Evers C.	0	0	0	0	0	0	0	0	0	0
	CUNY York C.	0	0	0	0	0	0	0	0	0	0
	Denison U.	0	0	0	0	0	0	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	DePaul U.	0	0	0	0	0	0	0	0	0	0
	Des Moines U. Osteopathic Medical Ctr.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Dillard U.	0	0	0	0	0	0	0	0	0	0
	Drake U.	0	0	0	0	0	0	0	0	0	0
	East TN State U.	0	0	0	0	0	0	0	0	0	0
	Eastern KY U.	0	0	0	0	0	0	0	0	0	0
	Eastern MI U.	0	0	0	0	0	0	0	0	0	0
	Eastern OR U.	0	0	0	0	0	0	0	0	0	0
	Elizabeth City State U.	0	0	0	0	0	0	0	0	0	0
	Evergreen State C.	0	0	0	0	0	0	0	0	0	0
	Fordham U.	0	0	0	0	0	0	0	0	0	0
	Ft. Valley State U.	0	0	0	0	0	0	0	0	0	0
	Franklin & Marshall C.	0	0	0	0	0	0	0	0	0	0
	Furman U.	0	0	0	0	0	0	0	0	0	0
	Gallaudet U.	0	0	0	0	0	0	0	0	0	0
	Georgetown U.	0	0	0	0	0	0	0	0	0	0
	GA Southern U.	0	0	0	0	0	0	0	0	0	0
	Grand Valley State U.	0	0	0	0	0	0	0	0	0	0
	Grinnell C.	0	0	0	0	0	0	0	0	0	0
	Gustavus Adolphus C.	0	0	0	0	0	0	0	0	0	0
	Hendrix C.	0	0	0	0	0	0	0	0	0	0
	Hope C.	0	0	0	0	0	0	0	0	0	0
	IL State U.	0	0	0	0	0	0	0	0	0	0
	IN State U. all campuses	0	0	0	0	0	0	0	0	0	0
	Indiana U. PA all campuses	0	0	0	0	0	0	0	0	0	0
	Iona C.	0	0	0	0	0	0	0	0	0	0
	Ithaca C.	0	0	0	0	0	0	0	0	0	0
	Jarvis Christian C.	0	0	0	0	0	0	0	0	0	0
	John Carroll U.	0	0	0	0	0	0	0	0	0	0
	Juniata C.	0	0	0	0	0	0	0	0	0	0
	Kalamazoo C.	0	0	0	0	0	0	0	0	0	0
	KS State U.	0	0	0	0	0	0	0	0	0	0
	Kennesaw State U.	0	0	0	0	0	0	0	0	0	0
	KY State U.	0	0	0	0	0	0	0	0	0	0
	Kettering U.	0	0	0	0	0	0	0	0	0	0
	Kirksville C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	La Salle U.	0	0	0	0	0	0	0	0	0	0
	Lafayette C.	0	0	0	0	0	0	0	0	0	0
	Lake Forest C.	0	0	0	0	0	0	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Langston U.	0	0	0	0	0	0	0	0	0	0
	Lawrence Technological U.	0	0	0	0	0	0	0	0	0	0
	Lewis and Clark C.	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Jefferson City, MO)	0	0	0	0	0	0	0	0	0	0
	Loyola Marymount U.	0	0	0	0	0	0	0	0	0	0
	Loyola U. Chicago	0	0	0	0	0	0	0	0	0	0
	Macalester C.	0	0	0	0	0	0	0	0	0	0
	Maharishi U. of Management	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Marshall U.	0	0	0	0	0	0	0	0	0	0
	MA C. of Pharmacy and Health Sciences	0	0	0	0	0	0	0	0	0	0
	McNeese State U.	0	0	0	0	0	0	0	0	0	0
	Medical C. OH	0	0	0	0	0	0	0	0	0	0
	Meharry Medical C.	0	0	0	0	0	0	0	0	0	0
	Mercer U. all campuses	0	0	0	0	0	0	0	0	0	0
	Midwestern U. (Chicago, IL)	0	0	0	0	0	0	0	0	0	0
	Milwaukee School of Engineering	0	0	0	0	0	0	0	0	0	0
	MS Valley State U.	0	0	0	0	0	0	0	0	0	0
	Morehead State U.	0	0	0	0	0	0	0	0	0	0
	Mt. Sinai School of Medicine	0	0	0	0	0	0	0	0	0	0
	Mt. St. Mary's C. (Los Angeles, CA)	0	0	0	0	0	0	0	0	0	0
	National U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	New C. FL	0	0	0	0	0	0	0	0	0	0
	New England C. of Optometry	0	0	0	0	0	0	0	0	0	0
	NJ City U.	0	0	0	0	0	0	0	0	0	0
	NM Highlands U.	0	0	0	0	0	0	0	0	0	0
	NY Medical C.	0	0	0	0	0	0	0	0	0	0
	Nicholls State U.	0	0	0	0	0	0	0	0	0	0
	Norfolk State U.	0	0	0	0	0	0	0	0	0	0
	Northeastern IL U.	0	0	0	0	0	0	0	0	0	0
	Northeastern OH Universities C. of Medicine	0	0	0	0	0	0	0	0	0	0
	Northern KY U.	0	0	0	0	0	0	0	0	0	0
	Nova Southeastern U.	0	0	0	0	0	0	0	0	0	0
	Oakland U.	0	0	0	0	0	0	0	0	0	0
	PA C. of Optometry	0	0	0	0	0	0	0	0	0	0
	Philadelphia C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Pittsburg State U.	0	0	0	0	0	0	0	0	0	0
	Pitzer C.	0	0	0	0	0	0	0	0	0	0
	Polytechnic U.	0	0	0	0	0	0	0	0	0	0
	Pomona C.	0	0	0	0	0	0	0	0	0	0
	Ponce School of Medicine	0	0	0	0	0	0	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Providence C.	0	0	0	0	0	0	0	0	0	0
	Radford U.	0	0	0	0	0	0	0	0	0	0
	Rider U.	0	0	0	0	0	0	0	0	0	0
	Roger Williams U. Bristol	0	0	0	0	0	0	0	0	0	0
	Rosalind Franklin U. of Medicine and Science	0	0	0	0	0	0	0	0	0	0
	Rose-Hulman Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Rush U.	0	0	0	0	0	0	0	0	0	0
	Saginaw Valley State U.	0	0	0	0	0	0	0	0	0	0
	Seattle U.	0	0	0	0	0	0	0	0	0	0
	Seton Hall U.	0	0	0	0	0	0	0	0	0	0
	Shaw U.	0	0	0	0	0	0	0	0	0	0
	Simmons C.	0	0	0	0	0	0	0	0	0	0
	Skidmore C.	0	0	0	0	0	0	0	0	0	0
	Sonoma State U.	0	0	0	0	0	0	0	0	0	0
	Southeastern OK State U.	0	0	0	0	0	0	0	0	0	0
	Southern CT State U.	0	0	0	0	0	0	0	0	0	0
	Southern OR U.	0	0	0	0	0	0	0	0	0	0
	Southern U. New Orleans	0	0	0	0	0	0	0	0	0	0
	Southwest MO State U.	0	0	0	0	0	0	0	0	0	0
	Spelman C.	0	0	0	0	0	0	0	0	0	0
	St. Cloud State U.	0	0	0	0	0	0	0	0	0	0
	St. Joseph's U.	0	0	0	0	0	0	0	0	0	0
	St. Mary's C. MD	0	0	0	0	0	0	0	0	0	0
	St. Mary's U. (San Antonio, TX)	0	0	0	0	0	0	0	0	0	0
	St. Olaf C.	0	0	0	0	0	0	0	0	0	0
	State U. West GA	0	0	0	0	0	0	0	0	0	0
	Sul Ross State U.	0	0	0	0	0	0	0	0	0	0
	SUNY C. Brockport	0	0	0	0	0	0	0	0	0	0
	SUNY C. Buffalo	0	0	0	0	0	0	0	0	0	0
	SUNY C. Cortland	0	0	0	0	0	0	0	0	0	0
	SUNY C. of Optometry	0	0	0	0	0	0	0	0	0	0
	SUNY C. Oswego	0	0	0	0	0	0	0	0	0	0
	SUNY C. Plattsburgh	0	0	0	0	0	0	0	0	0	0
	SUNY Fredonia	0	0	0	0	0	0	0	0	0	0
	SUNY Purchase C.	0	0	0	0	0	0	0	0	0	0
	SUNY Upstate Medical U.	0	0	0	0	0	0	0	0	0	0
	Tarleton State U.	0	0	0	0	0	0	0	0	0	0
	TX State U. San Marcos	0	0	0	0	0	0	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	TX Tech U. Health Science Ctr.	0	0	0	0	0	0	0	0	0	0
	TX Woman's U.	0	0	0	0	0	0	0	0	0	0
	Towson U.	0	0	0	0	0	0	0	0	0	0
	Trinity C. (Hartford, CT)	0	0	0	0	0	0	0	0	0	0
	Trinity U.	0	0	0	0	0	0	0	0	0	0
	Truman State U.	0	0	0	0	0	0	0	0	0	0
	Uniformed Services U. of the Health Sciences	0	0	0	0	0	0	0	0	0	0
	U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
	Universidad Central del Caribe	0	0	0	0	0	0	0	0	0	0
	U. AR Pine Bluff	0	0	0	0	0	0	0	0	0	0
	U. CA Office of the President	0	0	0	0	0	0	0	0	0	0
	U. Central OK	0	0	0	0	0	0	0	0	0	0
	U. Detroit Mercy	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	U. Findlay, The	0	0	0	0	0	0	0	0	0	0
	U. Hartford	0	0	0	0	0	0	0	0	0	0
	U. HI Hilo	0	0	0	0	0	0	0	0	0	0
	U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	U. Houston-Clear Lake	0	0	0	0	0	0	0	0	0	0
	U. Houston-Downtown	0	0	0	0	0	0	0	0	0	0
	U. IL Springfield	0	0	0	0	0	0	0	0	0	0
	U. KY all campuses	0	0	0	0	0	0	0	0	0	0
	U. LA Monroe	0	0	0	0	0	0	0	0	0	0
	U. MD Baltimore	0	0	0	0	0	0	0	0	0	0
	U. MD Ctr. for Environmental Science	0	0	0	0	0	0	0	0	0	0
	U. MO-St. Louis	0	0	0	0	0	0	0	0	0	0
	U. NC Greensboro	0	0	0	0	0	0	0	0	0	0
	U. NC Wilmington	0	0	0	0	0	0	0	0	0	0
	U. North FL	0	0	0	0	0	0	0	0	0	0
	U. Northern CO	0	0	0	0	0	0	0	0	0	0
	U. Northern IA	0	0	0	0	0	0	0	0	0	0
	U. Portland	0	0	0	0	0	0	0	0	0	0
	U. PR Humacao U. C.	0	0	0	0	0	0	0	0	0	0
	U. PR Rio Piedras Campus	0	0	0	0	0	0	0	0	0	0
	U. Puget Sound	0	0	0	0	0	0	0	0	0	0
	U. Redlands	0	0	0	0	0	0	0	0	0	0
	U. San Francisco	0	0	0	0	0	0	0	0	0	0
	U. of St. Thomas (St. Paul, MN)	0	0	0	0	0	0	0	0	0	0
	U. TX Health Science Ctr. San Antonio	0	0	0	0	0	0	0	0	0	0
	U. TX San Antonio	0	0	0	0	0	0	0	0	0	0

TABLE 73. Federally financed R&D expenditures at universities and colleges, financed by the Department of Energy, ranked by DOE R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	DOE R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	U. TX Southwestern Medical Ctr. Dallas	0	0	0	0	0	0	0	0	0	0
	U. DC	0	0	0	0	0	0	0	0	0	0
	U. of the Pacific	0	0	0	0	0	0	0	0	0	0
	U. of the Sciences Philadelphia	0	0	0	0	0	0	0	0	0	0
	U. WI Eau Claire	0	0	0	0	0	0	0	0	0	0
	U. WI La Crosse	0	0	0	0	0	0	0	0	0	0
	U. WI Oshkosh	0	0	0	0	0	0	0	0	0	0
	U. WI Parkside	0	0	0	0	0	0	0	0	0	0
	U. WI River Falls	0	0	0	0	0	0	0	0	0	0
	U. WI Stevens Point	0	0	0	0	0	0	0	0	0	0
	U. WI Stout	0	0	0	0	0	0	0	0	0	0
	U. WI Superior	0	0	0	0	0	0	0	0	0	0
	U. WI Whitewater	0	0	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0	0	0
	Wabash C.	0	0	0	0	0	0	0	0	0	0
	Wake Forest U.	0	0	0	0	0	0	0	0	0	0
	Wellesley C.	0	0	0	0	0	0	0	0	0	0
	Wesleyan U.	0	0	0	0	0	0	0	0	0	0
	West Chester U. PA	0	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	WV State C.	0	0	0	0	0	0	0	0	0	0
	Western IL U.	0	0	0	0	0	0	0	0	0	0
	Western U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	Western WA U.	0	0	0	0	0	0	0	0	0	0
	Wiley C.	0	0	0	0	0	0	0	0	0	0
	Wilkes U.	0	0	0	0	0	0	0	0	0	0
	Willamette U.	0	0	0	0	0	0	0	0	0	0
	Yeshiva U.	0	0	0	0	0	0	0	0	0	0

e = estimated.

DOE = Department of Energy.

nec = not elsewhere classified.

NOTES: Institutions that are not listed in this table did not provide federally financed R&D expenditures by federal agency. Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	14,083,356	26,747	30,618	12,578,943	49,930	430,869	434,594	248,542	50,920	224,959
1	U. CA, San Francisco	402,927	0	0	382,200	0	20,727	0	0	0	0
2	U. PA	369,929	50	0	341,697	0	8,260	4,736	8,433	2,310	4,443
3	U. MI all campuses	349,473	456	44	279,777	140	8,990	8,496	39,453	0	12,117
4	Washington U. St. Louis	340,940	270	0	330,504	48	3,135	2,306	2,865	0	1,812
5	U. CA, Los Angeles	328,575	199	24	305,594	765	9,358	7,967	2,873	0	1,795
6	U. Pittsburgh all campuses	312,490	152	0	293,918	585	5,963	5,936	3,124	129	2,683
7	Stanford U.	298,967	211	128	271,493	1,047	14,336	5,426	301	0	6,025
8	Yale U.	290,022	513	0	279,576	0	3,908	4,239	244	0	1,542
9	Duke U.	286,919	0	1,454	254,979	206	3,247	1,209	16,527	0	9,297
10	Harvard U.	286,824	0	950	265,781	776	12,246	5,593	1,478	0	0
11	Columbia U. in the City of NY	258,765	0	1,193	244,357	64	3,032	3,125	4,460	22	2,512
12	U. CA, San Diego	257,994	0	2,449	226,779	0	13,031	4,079	2,398	0	9,258
13	Baylor C. of Medicine	257,857	0	0	257,857	0	0	0	0	0	0
14	U. WI Madison	241,886	165	0	189,251	488	4,633	21,783	11,352	0	14,214
15	U. NC Chapel Hill	241,644	1,771	4,037	206,124	46	5,281	4,212	20,173	0	0
16	U. AL Birmingham, The	228,363	26	0	218,009	0	1,019	6,901	658	0	1,750
17	Emory U.	226,294	0	0	220,621	0	3,564	1,882	227	0	0
18	Vanderbilt U.	218,391	0	0	204,214	260	2,918	5,567	3,027	344	2,061
19	U. CO all campuses	210,555	0	53	194,663	62	6,321	5,551	3,130	45	730
20	U. MN all campuses	209,047	939	68	189,097	257	5,611	8,476	3,246	0	1,353
21	OR Health & Science U.	186,097	5,252	0	173,145	0	0	7,700	0	0	0
22	U. TX Southwestern Medical Ctr. Dallas	180,774	0	0	180,774	0	0	0	0	0	0
23	Cornell U. all campuses	180,222	366	0	160,190	0	12,748	1,386	2,770	0	2,762
24	U. IA	171,870	0	0	166,815	368	1,990	454	274	0	1,969
25	U. Cincinnati all campuses	168,299	0	0	166,472	0	428	33	289	4	1,073
26	U. Chicago	166,618	0	0	157,566	152	1,848	5,085	1,967	0	0
27	Boston U.	162,145	0	0	135,140	465	4,977	6,414	156	5,628	9,365
28	MA Institute of Technology	156,994	817	288	109,727	0	19,117	1,092	4	3	25,946
29	U. Rochester	156,189	1,016	0	144,733	0	815	8,384	0	371	870
30	NY U.	151,491	0	0	137,733	0	2,027	10,703	1,011	17	0
31	U. Southern CA	151,008	158	0	140,340	5	530	1,954	2,673	554	4,794
32	Yeshiva U.	149,636	0	0	149,636	0	0	0	0	0	0
33	Mt. Sinai School of Medicine	147,665	0	0	147,665	0	0	0	0	0	0
34	Northwestern U.	142,440	0	0	131,139	0	2,638	2,525	631	186	5,321
35	U. IL Chicago	142,320	3	2	128,072	101	2,912	2,780	4,940	2,754	756
36	Case Western Reserve U.	134,253	0	0	133,228	0	0	0	0	0	1,025
37	U. VA all campuses	133,740	0	0	119,081	151	6,418	4,615	10	0	3,465

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
38	OH State U. all campuses	133,148	297	0	120,368	44	3,645	4,320	2,513	188	1,773
39	U. MD Baltimore	127,748	0	0	127,748	0	0	0	0	0	0
40	IN U. all campuses	127,565	412	0	115,023	0	2,620	7,532	1,175	232	571
41	U. TX M. D. Anderson Cancer Ctr.	125,326	0	0	108,255	4,328	5,152	4,886	114	0	2,591
42	U. CA, Davis	119,588	0	244	110,786	171	3,121	509	1,139	123	3,495
43	U. UT	117,157	3,911	3	104,608	0	4,303	1,945	34	0	2,353
44	Wake Forest U.	113,263	0	0	112,480	0	783	0	0	0	0
45	U. of Medicine and Dentistry NJ	110,990	0	0	110,990	0	0	0	0	0	0
46	U. AZ	110,863	519	0	103,718	0	3,065	1,724	1,079	0	758
47	U. CA, Irvine	106,768	370	0	96,964	378	2,795	1,730	2,085	0	2,446
48	U. MA Worcester	104,328	0	0	104,328	0	0	0	0	0	0
49	U. FL	103,672	392	2,298	88,609	2,253	1,651	7,239	88	0	1,142
50	U. TX Health Science Ctr. Houston	96,900	0	0	96,900	0	0	0	0	0	0
51	U. Miami	96,839	0	2,409	82,512	0	0	9,737	1,725	0	456
52	Medical C. WI	95,882	0	0	95,882	0	0	0	0	0	0
53	SUNY Buffalo all campuses	95,024	230	0	89,317	0	2,231	2,363	221	177	485
54	U. TX Medical Branch	93,795	0	0	93,495	0	0	0	0	0	300
55	Wayne State U.	93,199	347	0	87,034	0	1,889	2,010	849	0	1,070
56	U. CA, Berkeley	90,468	0	0	65,438	614	7,643	6,927	3,301	3,295	3,250
57	Thomas Jefferson U.	87,120	0	0	87,120	0	0	0	0	0	0
58	PA State U. all campuses	85,761	205	1,474	62,083	103	4,953	8,018	6,507	29	2,389
59	Dartmouth C.	85,393	232	101	78,511	0	734	3,065	133	467	2,150
60	U. TX Health Science Ctr. San Antonio	83,558	0	0	83,558	0	0	0	0	0	0
61	Medical U. SC	82,046	0	0	82,046	0	0	0	0	0	0
62	Rockefeller U.	79,923	40	0	74,903	1,413	3,567	0	0	0	0
63	SUNY Albany	78,917	0	0	73,064	0	1,086	1,010	3,058	0	699
64	U. CT all campuses	77,607	336	0	67,726	228	1,040	6,451	1,256	57	513
65	VA Commonwealth U.	73,614	0	189	67,411	0	2,786	3,016	105	0	107
66	Georgetown U.	73,205	0	0	71,686	0	611	497	411	0	0
67	U. KS all campuses	69,267	0	0	65,498	0	664	720	2,310	21	54
68	U. KY all campuses	68,086	0	0	61,796	0	1,871	3,554	98	0	767
69	U. VT	64,742	0	1	60,950	50	300	629	0	2,474	338
70	LA State U. all campuses	64,504	0	0	61,075	0	3,150	109	168	0	2
71	Tufts U.	64,338	0	0	60,176	0	1,452	1,847	23	0	840
72	SUNY Stony Brook all campuses	63,243	401	0	53,268	829	3,606	1,604	181	812	2,542
73	U. NE all campuses	61,294	285	52	51,559	322	1,259	3,683	2,525	223	1,386
74	U. NM all campuses	58,801	176	0	48,190	0	1,701	3,758	4,334	635	7
75	U. HI Manoa	57,792	0	107	52,563	0	502	4,079	410	131	0

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
76	U. TN all campuses	57,422	66	0	55,772	27	520	130	178	315	414
77	Rutgers, The State U. NJ all campuses	56,535	0	0	44,192	57	5,795	4,366	1,698	0	427
78	Tulane U.	55,667	0	0	55,015	241	121	35	0	0	255
79	U. IL Urbana-Champaign	54,457	79	542	31,973	53	10,727	5,867	829	542	3,845
80	U. AR for Medical Sciences	51,637	0	0	51,637	0	0	0	0	0	0
81	U. OK all campuses	50,792	0	0	46,802	0	1,491	208	2,028	0	263
82	Rush U.	50,578	0	0	48,895	0	0	1,683	0	0	0
83	George Washington U.	49,956	0	0	25,366	23,461	0	1,040	23	0	66
84	Brown U.	48,402	137	0	44,595	0	1,612	1,541	517	0	0
85	U. TX Austin	44,680	128	0	23,793	0	8,880	5,444	4,573	418	1,444
86	Temple U.	42,367	0	81	34,952	0	1,178	4,287	618	0	1,251
87	U. Louisville	41,463	0	0	38,141	30	695	2,250	56	0	291
88	U. MO-Columbia	40,542	594	0	34,389	110	1,152	4,150	114	0	33
89	CO State U.	40,273	0	0	33,449	0	2,843	2,945	245	192	599
90	U. South FL	39,888	0	0	35,968	0	1,108	1,993	426	0	393
91	MI State U.	39,580	28	32	32,497	18	3,556	2,545	494	0	410
92	Princeton U.	38,568	0	0	23,834	0	3,669	6,281	4,257	0	527
93	TX A&M U. all campuses	38,454	0	3,066	25,213	329	5,273	1,406	625	0	2,542
94	Purdue U. all campuses	38,263	187	0	28,263	295	3,626	2,538	1,400	0	1,954
95	Charles R. Drew U. of Medicine and Science	37,119	0	0	37,119	0	0	0	0	0	0
96	CA Institute of Technology	37,003	0	0	29,259	147	7,281	0	0	0	316
97	St. Louis U. all campuses	35,279 e	0 e	0 e	35,195 e	0 e	0 e	22 e	62 e	0 e	0 e
98	Medical C. GA	35,018	0	0	35,018	0	0	0	0	0	0
99	U. GA	34,249	135	1	25,592	1	1,364	5,843	1,312	0	1
100	U. MS all campuses	30,565	0	0	30,499	0	7	59	0	0	0
101	U. SC all campuses	27,850	52	282	20,435	248	1,718	4,268	301	201	345
102	Loyola U. Chicago	27,456	0	0	26,545	0	540	329	42	0	0
103	Brandeis U.	26,999	136	0	19,536	0	2,538	2,527	2,262	0	0
104	TX A&M U. System Health Science Ctr.	26,557	0	728	25,057	0	0	108	0	0	664
105	Howard U.	25,532	0	0	24,878	0	1	381	10	0	262
106	Meharry Medical C.	25,388	0	0	25,388	0	0	0	0	0	0
107	NY Medical C.	24,551	0	0	24,551	0	0	0	0	0	0
108	Drexel U.	23,863	0	0	20,905	0	670	780	0	0	1,508
109	WV U.	23,755	159	29	21,218	0	603	128	624	0	994
110	U. OR	23,697	0	0	16,798	0	346	6,117	436	0	0
111	FL State U.	22,675	0	621	14,431	364	1,976	3,101	2,103	0	79
112	U. MD College Park	22,344	267	0	10,773	0	3,292	3,676	4,148	0	188
113	Morehouse School of Medicine	21,276	0	0	21,276	0	0	0	0	0	0
114	IA State U.	20,790	141	0	10,524	195	740	87	8,863	70	170

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
115	U. DE	20,623	53	0	5,811	0	5,534	1,800	0	4,180	3,245
116	U. NV, Reno	20,603	0	0	20,100	0	161	325	17	0	0
117	Carnegie Mellon U.	19,826	1,200	0	5,494	1,112	1,845	2,875	2,963	83	4,254
118	AZ State U. main campus	19,282	0	0	5,417	49	1,489	5,966	2,318	1,572	2,471
119	U. Houston	19,078	567	0	10,642	0	1,010	4,520	1,411	0	928
120	OR State U.	17,647	0	0	15,412	0	1,676	2	282	1	274
121	U. MD Biotechnology Institute	17,114	0	384	16,730	0	0	0	0	0	0
122	WA State U.	16,905	0	0	14,142	187	1,282	1,294	0	0	0
123	San Diego State U.	16,293	0	0	11,205	15	36	5,035	2	0	0
124	GA Institute of Technology all campuses	15,472	194	0	3,360	0	1,455	1,408	98	0	8,957
125	U. of Notre Dame	15,158	0	0	6,895	0	4,299	3,499	316	11	138
126	MT State U. Bozeman	14,855	0	0	12,409	0	1,681	0	9	0	756
127	CUNY Hunter C.	14,692	0	0	7,427	0	3,063	4,154	0	48	0
128	NC State U.	14,658	0	0	9,631	2,255	1,416	0	315	0	1,041
129	Medical C. OH	14,591	0	0	14,591	0	0	0	0	0	0
130	Jackson State U.	14,459	0	1,419	6,355	0	186	1,069	0	5,430	0
131	U. CA, Santa Cruz	13,820	0	841	5,293	0	5,081	456	31	0	2,118
132	Loma Linda U.	13,373	0	0	13,373	0	0	0	0	0	0
133	U. MT, The	13,305	0	0	11,832	0	644	681	148	0	0
134	U. MO-Kansas City	13,289	0	0	11,741	0	185	1,306	0	0	57
135	U. ID	12,971	0	154	11,964	0	86	101	6	0	660
136	Auburn U. all campuses	12,342	0	0	6,942	0	2,133	202	76	2,282	707
137	U. MA Amherst	12,318	0	0	6,716	165	2,195	2,932	294	0	16
138	U. CA, Riverside	12,225	0	0	8,417	0	874	1,529	1,279	0	126
139	GA State U.	12,134	0	0	7,537	0	1,011	3,509	77	0	0
140	U. CA, Santa Barbara	12,017	0	569	2,827	75	2,343	1,191	21	4,135	856
141	Albany Medical C.	11,420	0	0	11,420	0	0	0	0	0	0
142	U. North TX Health Science Ctr. Ft. Worth	11,296	0	0	11,296	0	0	0	0	0	0
143	FL A&M U.	11,139	0	0	10,985	0	0	67	0	0	87
144	U. RI	10,392	0	15	6,347	0	0	2,787	0	1,243	0
145	U. SD	9,877	0	0	9,747	0	0	73	57	0	0
146	U. LA Lafayette	9,233	0	0	9,152	0	41	40	0	0	0
147	Ponce School of Medicine	9,179	0	0	9,179	0	0	0	0	0	0
148	Wright State U. all campuses	8,866	0	0	8,475	0	0	391	0	0	0
149	U. MD Baltimore County	8,827	3	0	2,123	136	4,470	382	1,063	0	650
150	U. ND all campuses	8,733	0	0	8,538	0	100	0	0	0	95
151	Universidad Central del Caribe	7,901	0	0	7,901	0	0	0	0	0	0
152	UT State U.	7,776	0	0	6,249	0	0	1,527	0	0	0

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
153	VA Polytechnic Institute and State U.	7,740	35	73	3,445	0	1,198	1,701	0	0	1,288
154	Southern IL U. Carbondale	7,408	0	0	6,988	0	273	147	0	0	0
155	Rosalind Franklin U. of Medicine and Science	7,295	0	0	6,931	0	0	364	0	0	0
156	Syracuse U. all campuses	7,235	0	0	1,436	19	934	3,098	114	269	1,365
157	CUNY City C.	7,222	0	0	5,094	0	637	327	0	0	1,164
158	IL Institute of Technology	7,202	0	0	0	0	0	0	0	0	0
159	U. Memphis, The	6,905	0	0	1,115	56	69	3,316	2,310	0	39
160	TX Tech U. Health Science Ctr.	6,734	0	0	6,734	0	0	0	0	0	0
161	Northeastern U.	6,533	0	0	3,711	0	1,811	953	0	0	58
162	U. AK Fairbanks all campuses	6,418	0	0	3,189	0	0	0	0	3,229	0
163	MS State U.	6,391	0	14	4,849	34	223	0	1,085	0	186
164	U. TX San Antonio	6,279	0	0	6,184	0	10	50	0	0	35
165	U. TX El Paso	6,211	0	0	4,931	0	723	557	0	0	0
166	East Carolina U.	6,160	0	0	5,839	0	215	95	11	0	0
167	U. WI Milwaukee	5,889	0	48	523	0	792	566	3,065	0	895
168	ND State U. all campuses	5,804	0	0	1,386	0	2,691	574	133	1,020	0
169	NM State U. all campuses	5,715	0	0	2,021	5	3,390	5	0	139	155
170	OK State U. all campuses	5,635	0	0	5,038	0	200	38	176	60	123
171	U. AL, The	5,602	0	0	1,392	0	128	2,800	1,226	0	56
172	Rice U.	5,054	101	0	1,991	152	748	582	0	0	1,480
173	U. Central FL	4,984	0	0	3,212	0	1,741	0	31	0	0
174	U. PR Rio Piedras Campus	4,970	0	0	1,549	0	2,309	1,112	0	0	0
175	U. MA Lowell	4,922	0	0	2,546	0	2	12	366	0	1,996
176	U. NH	4,852	0	0	1,418	0	2,658	215	431	0	130
177	FL Atlantic U.	4,841	0	0	3,774	0	663	404	0	0	0
178	U. TX Dallas	4,769	534	785	1,429	28	1,344	20	74	87	468
179	U. Denver	4,632	0	0	1,622	0	958	2,025	27	0	0
180	Rensselaer Polytechnic Institute	4,330	11	113	717	272	1,014	0	0	0	2,203
181	Marshall U.	4,258	0	0	4,258	0	0	0	0	0	0
182	U. AR main campus	4,123	0	0	431	0	3,375	12	0	0	305
183	East TN State U.	4,076	0	0	3,995	0	0	81	0	0	0
184	Brigham Young U. all campuses	4,011	0	0	1,732	0	1,458	412	95	0	314
185	Portland State U.	3,893 e	0 e	0 e	955 e	0 e	334 e	234 e	2,370 e	0 e	0 e
186	Wesleyan U.	3,840	0	0	2,039	0	873	928	0	0	0
187	OH U. all campuses	3,817	0	0	1,860	0	906	1,031	2	0	18
188	Clark Atlanta U.	3,703	0	0	2,693	0	0	263	188	559	0
189	U. Southern MS	3,574	0	0	3,504	0	36	0	0	34	0

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
190	Uniformed Services U. of the Health Sciences	3,558	0	0	3,558	0	0	0	0	0	0
191	SUNY Binghamton	3,523	0	0	897	0	219	2,342	65	0	0
192	Teachers C. Columbia U.	3,471	0	0	1,020	0	0	2,137	314	0	0
193	Xavier U. LA	3,422	0	0	2,260	0	1,162	0	0	0	0
194	Tuskegee U.	3,399	0	0	2,286	0	0	0	1,113	0	0
195	CA State Polytechnic U. Pomona	3,378	0	0	3,378	0	0	0	0	0	0
196	Clemson U.	3,361	0	0	896	74	689	116	1,014	0	572
197	CA State U. Los Angeles	3,161	0	0	1,213	0	1,675	273	0	0	0
198	CA State U. Northridge	3,158	0	215	692	0	942	817	0	492	0
199	Marquette U.	3,040	0	0	2,047	55	249	235	22	0	432
200	CA State U. Dominguez Hills	2,905	0	0	2,541	0	328	36	0	0	0
201	Hampton U.	2,861	0	0	2,861	0	0	0	0	0	0
202	Oakland U.	2,858	0	0	2,147	0	711	0	0	0	0
203	U. WA	2,767	0	0	2,352	0	0	0	415	0	0
204	U. GU	2,749	0	336	1,589	0	0	0	0	824	0
205	U. NC Charlotte	2,703	79	0	2,624	0	0	0	0	0	0
206	Bowling Green State U. all campuses	2,663	0	0	735	0	483	720	725	0	0
207	Morgan State U.	2,617	0	0	476	2,122	0	0	19	0	0
208	U. DC	2,612	0	0	556	0	516	0	1,540	0	0
209	ID State U.	2,606	0	0	2,606	0	0	0	0	0	0
210	George Mason U.	2,576	27	0	1,180	211	90	866	202	0	0
211	DePaul U.	2,532	0	0	107	0	0	2,425	0	0	0
212	Maharishi U. of Management	2,531 e	0 e	0 e	2,531 e	0 e	0 e	0 e	0 e	0 e	0 e
213	U. ME	2,527	193	346	247	21	0	823	897	0	0
214	U. MA Boston	2,478	0	0	166	0	149	992	1,171	0	0
215	TN State U.	2,462	0	0	1,650	0	0	7	805	0	0
216	Northern AZ U.	2,405	0	0	2,131	0	274	0	0	0	0
217	Northeastern OH Universities C. of Medicine	2,402	0	0	2,402	0	0	0	0	0	0
218	TX Christian U.	2,395	0	0	101	0	13	2,281	0	0	0
219	CUNY Herbert H. Lehman C.	2,370	0	0	39	0	4	2,327	0	0	0
220	Catholic U. America, The	2,219	0	0	1,119	0	303	614	0	0	183
221	U. MO-St. Louis	2,054	0	0	942	0	583	525	4	0	0
222	Wichita State U.	2,049	0	0	673	0	628	678	70	0	0
223	CA State U. Long Beach	2,040	0	0	1,727	0	313	0	0	0	0
224	Lehigh U.	2,002	0	0	1,254	0	658	72	0	0	18
225	Kent State U. all campuses	1,988	0	0	615	0	176	1,141	56	0	0
226	New England C. of Optometry	1,958	0	0	1,958	0	0	0	0	0	0
227	CA State U. Fresno	1,921	0	0	517	0	120	1,284	0	0	0

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
228	U. NC Wilmington	1,921	0	2	1,481	0	28	410	0	0	0
229	U. Toledo	1,919	0	0	1,292	22	196	160	83	0	166
230	Duquesne U.	1,913	0	0	1,673	0	240	0	0	0	0
231	Spelman C.	1,854	0	0	1,380	0	344	130	0	0	0
232	Boise State U.	1,825	0	0	1,509	0	90	224	2	0	0
233	SUNY C. of Optometry	1,797	0	0	1,797	0	0	0	0	0	0
234	U. of the VI	1,774	0	0	642	0	0	0	1,132	0	0
235	TX A&M U. Kingsville	1,735	0	0	1,735	0	0	0	0	0	0
236	CUNY Brooklyn C.	1,679	355	0	205	0	72	1,047	0	0	0
237	Southern Methodist U.	1,662	0	0	1,168	0	44	434	0	0	16
238	Mercer U. all campuses	1,624	0	0	1,442	0	13	0	0	0	169
239	TX Tech U.	1,624	0	595	802	12	177	0	1	0	37
240	CUNY York C.	1,536	0	0	1,536	0	0	0	0	0	0
241	CUNY Queens C.	1,532	8	0	476	0	336	686	26	0	0
242	San Jose State U.	1,514	0	0	19	0	593	902	0	0	0
243	Wellesley C.	1,481	0	0	190	0	0	0	149	1,142	0
244	Western MI U.	1,444	0	0	1,127	0	77	209	31	0	0
245	PA C. of Optometry	1,407	0	0	1,407	0	0	0	0	0	0
246	U. Akron all campuses	1,343	0	0	393	0	109	13	828	0	0
247	Rochester Institute of Technology	1,282	0	0	1,199	0	55	0	0	0	28
248	CUNY Graduate Ctr.	1,252	313	0	0	0	0	22	0	917	0
249	U. LA Monroe	1,208	0	0	1,208	0	0	0	0	0	0
250	Grambling State U.	1,159	0	0	1,159	0	0	0	0	0	0
251	NM Highlands U.	1,158	0	140	86	0	461	471	0	0	0
252	U. PR Humacao U. C.	1,151	0	0	0	0	1,151	0	0	0	0
253	U. PR Mayaguez Campus	1,135	0	344	254	0	426	0	14	0	97
254	U. NC Greensboro	1,048	0	0	784	0	37	227	0	0	0
255	Clark U.	1,045 e	0 e	279 e	113 e	0 e	152 e	501 e	0 e	0 e	0 e
256	SUNY C. Old Westbury	991	0	0	861	0	130	0	0	0	0
257	Seton Hall U.	990	0	0	418	0	572	0	0	0	0
258	Benedict C.	988	0	0	988	0	0	0	0	0	0
259	SUNY C. Oswego	963	0	0	0	0	0	963	0	0	0
260	TX Woman's U.	963	0	0	850	0	0	0	0	113	0
261	CO School of Mines	962	0	0	0	0	75	0	0	0	887
262	Philadelphia C. of Osteopathic Medicine	951	0	0	951	0	0	0	0	0	0
263	U. North FL	947	0	0	783	35	0	0	129	0	0
264	Rowan U.	918	0	0	0	0	43	875	0	0	0
265	U. TX Arlington	910	0	0	76	0	404	267	0	0	163

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
266	CUNY C. Staten Island	904	0	0	439	0	465	0	0	0	0
267	SD State U.	892	0	0	544	0	0	0	348	0	0
268	Midwestern U. (Chicago, IL)	857	0	0	857	0	0	0	0	0	0
269	Cleveland State U.	846	0	0	619	0	0	9	11	0	207
270	IL State U.	785	0	0	750	0	35	0	0	0	0
271	Southern U. and A&M C. all campuses	777	0	0	777	0	0	0	0	0	0
272	FL Institute of Technology	751	0	0	196	0	504	51	0	0	0
273	SUNY C. Buffalo	744	0	39	0	0	0	143	562	0	0
274	GA Southern U.	737	0	0	687	0	0	50	0	0	0
275	Woods Hole Oceanographic Institution	720	0	720	0	0	0	0	0	0	0
276	Western KY U.	701	0	0	312	0	0	383	6	0	0
277	NJ Institute of Technology	666	59	0	0	354	39	0	0	28	186
278	Fordham U.	655	0	0	54	0	0	522	79	0	0
279	Shaw U.	619	0	0	619	0	0	0	0	0	0
280	Gallaudet U.	584	0	0	392	0	0	192	0	0	0
281	U. of the Pacific	583	0	0	583	0	0	0	0	0	0
282	Worcester Polytechnic Institute	577	139	0	43	9	0	0	0	0	386
283	C. of William and Mary all campuses	558	0	171	197	0	108	82	0	0	0
284	CO State U. Pueblo	558	0	0	310	0	248	0	0	0	0
285	Prairie View A&M U.	549	0	0	496	0	31	0	22	0	0
286	Black Hills State U.	545	0	0	545	0	0	0	0	0	0
287	U. TX-Pan American	535	0	0	528	0	0	7	0	0	0
288	U. Tulsa	525	0	0	494	0	0	0	0	0	31
289	NC Agricultural and Technical State U.	521	0	0	254	0	267	0	0	0	0
290	Albany State U.	515	0	0	515	0	0	0	0	0	0
291	Clarkson U.	514	0	0	240	0	100	0	0	0	174
292	Alcorn State U.	502	0	0	502	0	0	0	0	0	0
293	Nova Southeastern U.	486	0	0	486	0	0	0	0	0	0
294	Furman U.	484	0	0	63	0	341	80	0	0	0
295	Mt. St. Mary's C. (Los Angeles, CA)	482	0	0	482	0	0	0	0	0	0
296	Stevens Institute of Technology	473	0	0	473	0	0	0	0	0	0
297	Smith C.	440	0	0	268	16	0	129	0	0	27
298	Savannah State U.	437	0	0	437	0	0	0	0	0	0
299	U. AL Huntsville, The	430	0	0	137	0	293	0	0	0	0
300	C. Charleston	429	0	43	273	0	113	0	0	0	0
301	U. San Francisco	426	0	0	28	0	0	398	0	0	0
302	U. MO-Rolla	421	0	0	261	0	127	0	0	0	33
303	U. Northern CO	409	0	0	0	0	0	0	409	0	0
304	U. AR Little Rock	403	21	0	0	0	0	0	0	0	382

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
305	Hamilton C. (Clinton, NY)	399	0	0	99	0	0	300	0	0	0
306	Bryn Mawr C.	381	0	0	112	0	79	157	33	0	0
307	U. North TX	369	0	0	175	0	0	0	194	0	0
308	U. of Health Sciences	365	0	0	365	0	0	0	0	0	0
309	Claremont Graduate U.	351	0	0	0	0	0	351	0	0	0
310	Morehead State U.	350	0	0	159	0	0	191	0	0	0
311	Trinity C. (Hartford, CT)	328	0	0	57	0	0	245	26	0	0
312	American U.	327	0	0	0	0	0	322	5	0	0
313	Kirksville C. of Osteopathic Medicine	312	0	0	312	0	0	0	0	0	0
314	Juniata C.	309	0	0	309	0	0	0	0	0	0
315	U. WI Parkside	294	0	0	291	0	3	0	0	0	0
316	Milwaukee School of Engineering	293	0	0	293	0	0	0	0	0	0
317	Kennesaw State U.	292	0	0	0	0	292	0	0	0	0
318	James Madison U.	290	0	0	290	0	0	0	0	0	0
319	TX State U. San Marcos	288	0	0	0	0	288	0	0	0	0
320	Baylor U.	287	64	0	0	0	0	223	0	0	0
321	IN State U. all campuses	281	0	0	47	0	0	234	0	0	0
322	Pomona C.	272	0	0	0	0	0	272	0	0	0
323	MA C. of Pharmacy and Health Sciences	270	0	0	270	0	0	0	0	0	0
324	Old Dominion U.	270	0	0	25	0	6	4	235	0	0
325	Southeastern OK State U.	269	0	0	227	0	42	0	0	0	0
326	Bates C.	267	0	0	267	0	0	0	0	0	0
327	MT Tech of the U. MT	255	0	0	150	0	45	0	0	0	60
328	Murray State U.	250	0	0	240	0	10	0	0	0	0
329	U. South AL	239	0	0	239	0	0	0	0	0	0
330	Albany C. of Pharmacy	235	0	0	235	0	0	0	0	0	0
331	VA State U.	225	0	0	225	0	0	0	0	0	0
332	SUNY C. Plattsburgh	224	0	0	0	0	224	0	0	0	0
333	Pitzer C.	223	0	0	0	0	0	223	0	0	0
334	U. San Diego	222	0	0	204	0	18	0	0	0	0
335	WV State C.	222	0	0	222	0	0	0	0	0	0
336	Clafin U.	221	0	0	221	0	0	0	0	0	0
337	U. West FL	216	18	0	16	0	177	5	0	0	0
338	U. Puget Sound	209	0	0	0	0	0	0	209	0	0
339	Lincoln U. (Lincoln University, PA)	197	0	0	197	0	0	0	0	0	0
340	U. AR Pine Bluff	197	0	0	0	0	197	0	0	0	0
341	Hendrix C.	195	0	0	70	0	125	0	0	0	0
342	St. Cloud State U.	193	0	0	193	0	0	0	0	0	0

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
343	Northern KY U.	182	0	0	69	107	0	6	0	0	0
344	U. WI La Crosse	179	107	0	67	0	5	0	0	0	0
345	Bowie State U.	178	0	0	37	0	0	0	141	0	0
346	CA State U. Fullerton	172	0	0	172	0	0	0	0	0	0
347	Western WA U.	170	0	0	0	0	36	95	39	0	0
348	Western U. of Health Sciences	165	0	0	165	0	0	0	0	0	0
349	Southwest MO State U.	164	0	0	164	0	0	0	0	0	0
350	MI Technological U.	159	0	0	2	0	108	0	0	0	49
351	Bluefield State C.	156	0	0	156	0	0	0	0	0	0
352	Reed C.	156	0	0	97	0	54	5	0	0	0
353	Amherst C.	153	0	0	71	0	4	78	0	0	0
354	Eastern MI U.	151	0	0	18	0	0	133	0	0	0
355	NM Institute of Mining and Technology	151	0	0	0	0	151	0	0	0	0
356	NY Institute of Technology all campuses	150	0	0	150	0	0	0	0	0	0
357	Carleton C.	147	0	0	92	0	55	0	0	0	0
358	KY State U.	144	0	0	0	0	0	0	0	0	144
359	Southern U. New Orleans	143	10	0	133	0	0	0	0	0	0
360	U. Hartford	138	0	0	0	0	0	138	0	0	0
361	U. MA Dartmouth	131	0	0	0	0	104	27	0	0	0
362	SUNY C. Geneseo	130	0	0	40	0	0	90	0	0	0
363	Bucknell U.	129	0	0	55	0	0	3	0	0	71
364	Swarthmore C.	129	0	0	31	0	98	0	0	0	0
365	Mt. Holyoke C.	128	0	0	105	0	21	2	0	0	0
366	Elizabeth City State U.	127	0	0	127	0	0	0	0	0	0
367	Ithaca C.	125	0	0	125	0	0	0	0	0	0
368	Pace U. all campuses	122	0	0	122	0	0	0	0	0	0
369	Rider U.	121	0	0	102	0	0	0	19	0	0
370	U. HI Hilo	120	0	0	120	0	0	0	0	0	0
371	Bowdoin C.	105	0	0	33	0	0	64	8	0	0
372	Loyola Marymount U.	104	0	0	104	0	0	0	0	0	0
373	Augustana C. (Rock Island, IL)	101	0	0	101	0	0	0	0	0	0
374	Towson U.	96	30	0	66	0	0	0	0	0	0
375	Central CT State U.	84	0	0	66	0	0	0	18	0	0
376	Southern IL U. Edwardsville	82	0	2	37	0	0	0	43	0	0
377	U. Houston-Clear Lake	81	0	0	81	0	0	0	0	0	0
378	U. Scranton	81	0	0	54	0	27	0	0	0	0
379	CUNY Medgar Evers C.	79	0	0	79	0	0	0	0	0	0
380	Des Moines U. Osteopathic Medical Ctr.	78 e	0 e	0 e	78 e	0 e	0 e	0 e	0 e	0 e	0 e

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
381	Fairfield U.	78	0	0	0	0	0	35	0	43	0
382	Kalamazoo C.	78	0	0	41	37	0	0	0	0	0
383	U. Dayton	77	0	0	77	0	0	0	0	0	0
384	Franklin & Marshall C.	76	0	0	76	0	0	0	0	0	0
385	Ft. Lewis C.	75	0	0	75	0	0	0	0	0	0
386	Augustana C. (Sioux Falls, SD)	72	0	0	72	0	0	0	0	0	0
387	Lewis and Clark C.	69	0	0	0	0	69	0	0	0	0
388	Macalester C.	69	0	0	0	0	0	69	0	0	0
389	Youngstown State U.	69	0	0	0	0	69	0	0	0	0
390	Colgate U.	68	0	0	45	0	0	23	0	0	0
391	Roger Williams U. Bristol	66	0	0	66	0	0	0	0	0	0
392	Northern IL U.	63	0	12	0	0	0	51	0	0	0
393	U. Houston-Downtown	63	0	0	63	0	0	0	0	0	0
394	U. WI Oshkosh	56	0	0	4	0	0	52	0	0	0
395	St. Olaf C.	54	0	0	33	0	0	0	21	0	0
396	Embry-Riddle Aeronautical U.	52	0	0	0	0	0	0	0	0	52
397	New C. FL	48	0	0	48	0	0	0	0	0	0
398	Trinity U.	47	0	0	0	0	0	47	0	0	0
399	Jarvis Christian C.	45	0	0	22	0	23	0	0	0	0
400	Sonoma State U.	42	0	0	0	0	42	0	0	0	0
401	St. Joseph's U.	38	0	0	38	0	0	0	0	0	0
402	U. WI Stevens Point	38	0	0	10	0	28	0	0	0	0
403	CA State Polytechnic U. San Luis Obispo	33	0	0	0	0	0	33	0	0	0
404	Simmons C.	33	0	0	33	0	0	0	0	0	0
405	Ball State U.	32	0	0	32	0	0	0	0	0	0
406	Bradley U.	32	0	0	32	0	0	0	0	0	0
407	C. Wooster	32	0	0	0	0	0	0	0	0	0
408	National U. of Health Sciences	31	0	0	31	0	0	0	0	0	0
409	TX A&M U. Corpus Christi	31	0	0	31	0	0	0	0	0	0
410	Middle TN State U.	30	0	0	0	0	30	0	0	0	0
411	MS Valley State U.	30	0	0	30	0	0	0	0	0	0
412	Roanoke C.	30	0	0	30	0	0	0	0	0	0
413	U. Richmond	30	0	0	1	0	29	0	0	0	0
414	Western IL U.	30	0	0	0	0	30	0	0	0	0
415	Lafayette C.	29	0	0	0	0	0	29	0	0	0
416	U. Portland	29	0	0	29	0	0	0	0	0	0
417	U. of St. Thomas (St. Paul, MN)	28	0	0	28	0	0	0	0	0	0
418	Colby C.	24	0	0	0	0	24	0	0	0	0
419	SUNY C. Cortland	23	0	0	0	0	23	0	0	0	0

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
420	Pittsburg State U.	22	0	0	22	0	0	0	0	0	0
421	State U. West GA	20	0	0	0	0	0	0	20	0	0
422	Oberlin C.	18	0	0	18	0	0	0	0	0	0
423	C. of the Holy Cross	15	0	0	0	0	0	15	0	0	0
424	Drake U.	15	0	0	0	0	0	15	0	0	0
425	U. Detroit Mercy	15 e	0 e	0 e	6 e	0 e	0 e	0 e	0 e	9 e	0 e
426	U. WI Eau Claire	14	0	0	14	0	0	0	0	0	0
427	Southeastern LA U.	13	0	0	0	0	13	0	0	0	0
428	Rose-Hulman Institute of Technology	12	0	0	0	0	0	0	0	0	12
429	Abilene Christian U.	11	0	0	11	0	0	0	0	0	0
430	SUNY C. Brockport	10	0	0	0	0	0	10	0	0	0
431	Desert Research Institute	9	0	9	0	0	0	0	0	0	0
432	U. Findlay, The	4	0	0	4	0	0	0	0	0	0
433	CUNY Baruch C.	1	0	0	0	0	0	0	0	1	0
	Air Force Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Alfred U. all campuses	0	0	0	0	0	0	0	0	0	0
	Allegheny C.	0	0	0	0	0	0	0	0	0	0
	Andrews U.	0	0	0	0	0	0	0	0	0	0
	Appalachian State U.	0	0	0	0	0	0	0	0	0	0
	AR State U. main campus	0	0	0	0	0	0	0	0	0	0
	Augsburg C.	0	0	0	0	0	0	0	0	0	0
	Barnard C.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Bethune-Cookman C.	0	0	0	0	0	0	0	0	0	0
	Bridgewater State C.	0	0	0	0	0	0	0	0	0	0
	CA State U. Monterey Bay	0	0	0	0	0	0	0	0	0	0
	CA State U. San Bernardino	0	0	0	0	0	0	0	0	0	0
	Calvin C.	0	0	0	0	0	0	0	0	0	0
	Central MI U.	0	0	0	0	0	0	0	0	0	0
	Central WA U.	0	0	0	0	0	0	0	0	0	0
	Chapman U.	0	0	0	0	0	0	0	0	0	0
	Christopher Newport U.	0	0	0	0	0	0	0	0	0	0
	Coastal Carolina U.	0	0	0	0	0	0	0	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0	0	0
	CUNY John Jay C. of Criminal Justice	0	0	0	0	0	0	0	0	0	0
	Denison U.	0	0	0	0	0	0	0	0	0	0
	Dickinson C.	0	0	0	0	0	0	0	0	0	0
	Dillard U.	0	0	0	0	0	0	0	0	0	0
	Eastern KY U.	0	0	0	0	0	0	0	0	0	0

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Eastern OR U.	0	0	0	0	0	0	0	0	0	0
	Eastern WA U.	0	0	0	0	0	0	0	0	0	0
	Evergreen State C.	0	0	0	0	0	0	0	0	0	0
	Fayetteville State U.	0	0	0	0	0	0	0	0	0	0
	Fisk U.	0	0	0	0	0	0	0	0	0	0
	FL Gulf Coast U.	0	0	0	0	0	0	0	0	0	0
	Ft. Valley State U.	0	0	0	0	0	0	0	0	0	0
	Grand Valley State U.	0	0	0	0	0	0	0	0	0	0
	Grinnell C.	0	0	0	0	0	0	0	0	0	0
	Gustavus Adolphus C.	0	0	0	0	0	0	0	0	0	0
	Hampshire C.	0	0	0	0	0	0	0	0	0	0
	Hartwick C.	0	0	0	0	0	0	0	0	0	0
	Hope C.	0	0	0	0	0	0	0	0	0	0
	Indiana U. PA all campuses	0	0	0	0	0	0	0	0	0	0
	Iona C.	0	0	0	0	0	0	0	0	0	0
	John Carroll U.	0	0	0	0	0	0	0	0	0	0
	KS State U.	0	0	0	0	0	0	0	0	0	0
	Kettering U.	0	0	0	0	0	0	0	0	0	0
	La Salle U.	0	0	0	0	0	0	0	0	0	0
	Lake Forest C.	0	0	0	0	0	0	0	0	0	0
	Lamar U.	0	0	0	0	0	0	0	0	0	0
	Langston U.	0	0	0	0	0	0	0	0	0	0
	Lawrence Technological U.	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Jefferson City, MO)	0	0	0	0	0	0	0	0	0	0
	McNeese State U.	0	0	0	0	0	0	0	0	0	0
	NJ City U.	0	0	0	0	0	0	0	0	0	0
	Nicholls State U.	0	0	0	0	0	0	0	0	0	0
	Norfolk State U.	0	0	0	0	0	0	0	0	0	0
	Northeastern IL U.	0	0	0	0	0	0	0	0	0	0
	OR Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Polytechnic U.	0	0	0	0	0	0	0	0	0	0
	Providence C.	0	0	0	0	0	0	0	0	0	0
	Radford U.	0	0	0	0	0	0	0	0	0	0
	Saginaw Valley State U.	0	0	0	0	0	0	0	0	0	0
	Seattle U.	0	0	0	0	0	0	0	0	0	0
	Skidmore C.	0	0	0	0	0	0	0	0	0	0
	SD School of Mines and Technology	0	0	0	0	0	0	0	0	0	0
	Southern CT State U.	0	0	0	0	0	0	0	0	0	0

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Southern OR U.	0	0	0	0	0	0	0	0	0	0
	St. Mary's C. MD	0	0	0	0	0	0	0	0	0	0
	St. Mary's U. (San Antonio, TX)	0	0	0	0	0	0	0	0	0	0
	Stephen F. Austin State U.	0	0	0	0	0	0	0	0	0	0
	Sul Ross State U.	0	0	0	0	0	0	0	0	0	0
	SUNY Fredonia	0	0	0	0	0	0	0	0	0	0
	SUNY Purchase C.	0	0	0	0	0	0	0	0	0	0
	SUNY Upstate Medical U.	0	0	0	0	0	0	0	0	0	0
	Tarleton State U.	0	0	0	0	0	0	0	0	0	0
	TN Technological U.	0	0	0	0	0	0	0	0	0	0
	TX A&M U. Commerce	0	0	0	0	0	0	0	0	0	0
	Truman State U.	0	0	0	0	0	0	0	0	0	0
	Union C. (Schenectady, NY)	0	0	0	0	0	0	0	0	0	0
	U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
	U.S. Coast Guard Academy	0	0	0	0	0	0	0	0	0	0
	U.S. Naval Academy	0	0	0	0	0	0	0	0	0	0
	U. CA Office of the President	0	0	0	0	0	0	0	0	0	0
	U. Central OK	0	0	0	0	0	0	0	0	0	0
	U. IL Springfield	0	0	0	0	0	0	0	0	0	0
	U. MD Ctr. for Environmental Science	0	0	0	0	0	0	0	0	0	0
	U. NC Asheville	0	0	0	0	0	0	0	0	0	0
	U. Northern IA	0	0	0	0	0	0	0	0	0	0
	U. Redlands	0	0	0	0	0	0	0	0	0	0
	U. of the Sciences Philadelphia	0	0	0	0	0	0	0	0	0	0
	U. WI Green Bay	0	0	0	0	0	0	0	0	0	0
	U. WI River Falls	0	0	0	0	0	0	0	0	0	0
	U. WI Stout	0	0	0	0	0	0	0	0	0	0
	U. WI Superior	0	0	0	0	0	0	0	0	0	0
	U. WI Whitewater	0	0	0	0	0	0	0	0	0	0
	Valparaiso U.	0	0	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0	0	0
	Wabash C.	0	0	0	0	0	0	0	0	0	0
	West Chester U. PA	0	0	0	0	0	0	0	0	0	0
	West TX A&M U.	0	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0

TABLE 74. Federally financed R&D expenditures at universities and colleges, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	HHS R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Western Carolina U.	0	0	0	0	0	0	0	0	0	0
	Whitman C.	0	0	0	0	0	0	0	0	0	0
	Wiley C.	0	0	0	0	0	0	0	0	0	0
	Wilkes U.	0	0	0	0	0	0	0	0	0	0
	Willamette U.	0	0	0	0	0	0	0	0	0	0

e = estimated.

HHS = Department of Health and Human Services.

nec = not elsewhere classified.

NOTES: Institutions that are not listed in this table did not provide federally financed R&D expenditures by federal agency. Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	1,098,480	38,738	231,900	108,263	5,044	336,554	10,267	15,031	6,691	345,877
1	Stanford U.	97,644	48	535	2,578	0	45,233	0	70	0	49,180
2	U. AZ	57,491	76	357	1,471	0	53,731	0	0	0	1,856
3	U. CA, Berkeley	41,916	0	955	574	0	39,295	0	0	177	915
4	U. CO all campuses	41,255	0	23,372	207	0	12,074	111	39	0	5,452
5	MA Institute of Technology	32,049	1,706	5,929	383	0	11,545	0	180	4	12,302
6	UT State U.	31,085	0	513	1,327	0	985	0	0	0	28,260
7	Baylor C. of Medicine	27,853	0	0	27,853	0	0	0	0	0	0
8	U. MD College Park	26,173	470	4,202	157	0	9,639	0	4,206	0	7,499
9	Hampton U.	24,472	0	23,181	0	0	84	0	0	0	1,207
10	U. AL Huntsville, The	19,647	3,781	3,265	942	5	5,450	0	24	2	6,178
11	U. MD Baltimore County	19,504	232	15,921	1	0	3,177	173	0	0	0
12	GA Institute of Technology all campuses	18,903	0	2,838	1,375	0	372	0	1,264	0	13,054
13	CA Institute of Technology	17,469	327	3,074	1,670	0	10,990	0	0	0	1,408
14	NM State U. all campuses	16,843	0	0	5	0	411	0	0	0	16,427
15	U. CA, Los Angeles	15,893	160	4,262	305	0	6,958	0	317	0	3,891
16	U. MI all campuses	15,890	0	130	1,072	0	1,588	0	12	0	13,088
17	PA State U. all campuses	14,540	30	2,603	169	2	7,349	0	0	846	3,541
18	U. Chicago	14,066	8,370	998	0	62	4,636	0	0	0	0
19	U. HI Manoa	13,821	0	5,479	364	0	7,795	0	0	129	54
20	AZ State U. main campus	12,340	314	9,475	72	16	1,292	0	0	0	1,171
21	U. FL	11,729	0	0	1,126	0	1,219	0	57	0	9,327
22	U. WA	11,624	0	4,132	1,121	0	3,795	0	0	0	2,576
23	TX A&M U. all campuses	11,591	92	1,354	1,736	0	138	8	275	0	7,988
24	Columbia U. in the City of NY	11,343	0	5,996	1,022	0	2,327	0	0	0	1,998
25	U. WI Madison	11,299	0	5,543	742	96	2,503	0	17	0	2,398
26	U. NH	10,978	0	10,863	0	0	112	0	0	0	3
27	U. AK Fairbanks all campuses	10,843	0	10,604	0	0	0	0	0	0	239
28	San Jose State U.	10,682	0	607	0	0	981	8,154	33	0	907
29	U. AL Birmingham, The	9,424	0	0	8,090	0	168	0	0	0	1,166
30	Carnegie Mellon U.	9,351	6,728	0	288	0	877	157	0	0	1,301
31	George Mason U.	9,217	97	7,568	22	167	199	0	900	0	264
32	U. CA, San Diego	9,206	0	4,488	842	2	2,920	0	0	0	954
33	U. CA, Santa Cruz	9,178	132	298	22	0	1,704	0	0	0	7,022
34	Harvard U.	9,146	0	4,895	1,481	0	975	209	0	0	1,586
35	OH State U. all campuses	9,126	79	1,358	272	42	1,386	0	146	0	5,843
36	Princeton U.	8,981	0	450	102	0	2,632	0	115	0	5,682
37	U. TX Austin	8,897	38	379	307	0	1,549	44	0	0	6,580

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
38	Purdue U. all campuses	8,310	0	126	167	0	590	0	0	1,805	5,622
39	Boston U.	7,484	0	1,742	436	0	4,568	0	0	252	486
40	U. IL Urbana-Champaign	7,337	1,454	806	325	0	1,066	289	0	464	2,933
41	CO State U.	6,938	0	5,021	1,479	0	87	0	0	0	351
42	Old Dominion U.	6,578	326	265	0	304	123	301	0	0	5,259
43	MS State U.	6,576	94	99	2,855	18	225	0	904	0	2,381
44	U. IA	6,343	0	15	0	0	5,369	25	0	0	934
45	OR State U.	6,246	0	4,835	791	0	0	0	0	0	620
46	U. Miami	6,146	0	5,095	189	0	810	0	0	0	52
47	MT State U. Bozeman	6,118	0	0	2,200	0	3,019	0	0	80	819
48	U. Southern CA	5,648	1,212	954	80	0	86	0	0	84	3,232
49	Cornell U. all campuses	5,645	73	219	451	0	3,069	0	0	0	1,833
50	U. Central FL	5,613	0	3,340	0	0	259	0	119	0	1,895
51	U. MN all campuses	5,178	275	266	581	0	3,127	0	0	0	929
52	U. NM all campuses	4,743	0	1,931	155	45	929	0	125	0	1,558
53	Case Western Reserve U.	4,702	46	252	225	21	802	0	0	0	3,356
54	Washington U. St. Louis	4,659	0	1,364	562	0	2,547	0	0	0	186
55	U. CA, Santa Barbara	4,564	1,770	669	0	0	1,136	69	366	0	554
56	Loma Linda U.	4,463	0	0	4,463	0	0	0	0	0	0
57	U. CA, Irvine	4,453	79	1,041	1,834	0	701	0	0	0	798
58	U. Toledo	4,264	0	124	0	0	614	0	0	0	3,526
59	U. VA all campuses	4,174	1,066	457	227	0	977	0	0	0	1,447
60	CO School of Mines	4,173	0	0	0	0	3,652	0	0	0	521
61	MI State U.	4,133	0	2	1,215	0	1,108	0	1,380	0	428
62	IA State U.	4,071	2	29	24	0	69	0	0	0	3,947
63	Cleveland State U.	3,915	0	54	0	0	127	0	0	0	3,734
64	Brown U.	3,804	0	2,213	301	34	712	0	0	0	544
65	U. ND all campuses	3,722	5	3,652	0	0	7	0	4	48	6
66	U. MT, The	3,668	120	55	1,119	0	2	0	2,281	0	91
67	TN State U.	3,502	198	0	0	0	745	0	0	0	2,559
68	Auburn U. all campuses	3,455	0	18	138	0	166	0	0	812	2,321
69	U. MO-Columbia	3,443	0	40	2,328	0	59	0	0	0	1,016
70	Catholic U. America, The	3,414	0	0	0	0	3,262	66	0	0	86
71	U. Southern MS	3,411	0	1,774	3	0	613	0	22	723	276
72	FL State U.	3,034	82	2,012	82	221	68	0	0	0	569
73	U. MA Amherst	2,964	1,062	154	16	0	1,158	0	0	0	574
74	Rutgers, The State U. NJ all campuses	2,917	37	832	6	0	1,479	0	0	0	563
75	SUNY Stony Brook all campuses	2,900	0	683	222	66	856	0	0	0	1,073

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
76	U. MO-Rolla	2,878	0	0	0	0	2,220	0	0	0	658
77	Vanderbilt U.	2,875	142	0	0	0	313	0	0	0	2,420
78	U. Houston	2,668	0	52	321	0	376	0	0	0	1,919
79	Norfolk State U.	2,633	45	0	5	906	1,369	0	0	0	308
80	Rochester Institute of Technology	2,616	6	0	0	0	2,420	0	0	0	190
81	Rice U.	2,604	444	59	64	105	1,550	74	0	0	308
82	U. CA, Davis	2,589	0	168	976	0	345	28	0	0	1,072
83	U. TX Dallas	2,554	286	420	765	15	719	11	40	47	251
84	Dartmouth C.	2,506	0	0	336	0	930	0	226	0	1,014
85	U. SC all campuses	2,450	0	441	217	0	220	0	459	0	1,113
86	U. AL, The	2,447	0	0	194	0	154	0	0	0	2,099
87	U. ID	2,385	0	39	582	0	0	0	120	0	1,644
88	U. CT all campuses	2,346	0	55	977	0	445	0	68	0	801
89	NC State U.	2,328	0	180	487	56	225	0	0	1	1,379
90	George Washington U.	2,206	0	0	0	183	181	0	0	0	1,842
91	CUNY City C.	2,182	0	135	20	0	1,219	0	0	0	808
92	U. OK all campuses	2,162	92	903	253	0	339	0	0	0	575
93	Tulane U.	2,097	0	0	595	0	163	0	0	0	1,339
94	U. Cincinnati all campuses	2,082	0	63	0	0	65	0	118	0	1,836
95	Drexel U.	2,074	0	0	244	0	576	0	0	0	1,254
96	U. TX Medical Branch	2,071	0	0	1,869	0	0	0	0	0	202
97	LA State U. all campuses	2,051	56	88	394	16	1,225	0	1	0	271
98	VA Polytechnic Institute and State U.	2,002	0	11	32	0	152	0	0	0	1,807
99	Fisk U.	2,000	0	0	0	0	2,000	0	0	0	0
100	U. KS all campuses	1,976	42	756	217	0	75	0	0	0	886
101	Clark U.	1,968 e	0 e	251 e	0 e	0 e	0 e	0 e	0 e	0 e	1,717 e
102	WV U.	1,964	0	31	0	30	52	0	0	0	1,851
103	Northwestern U.	1,932	0	145	0	0	507	0	0	0	1,280
104	Duke U.	1,927	0	237	561	0	328	0	0	0	801
105	Morgan State U.	1,912	340	0	0	18	45	0	8	0	1,501
106	U. TX El Paso	1,833	98	1,153	0	0	534	0	0	29	19
107	TX Tech U.	1,803	632	377	374	0	93	0	0	0	327
108	Rensselaer Polytechnic Institute	1,790	0	54	0	0	946	0	0	0	790
109	NC Agricultural and Technical State U.	1,746	95	0	53	0	59	0	0	0	1,539
110	U. TN all campuses	1,725	0	638	241	0	0	0	0	0	846
111	U. Rochester	1,720	0	162	0	0	675	21	0	0	862
112	U. NE all campuses	1,706	0	237	320	0	36	0	0	0	1,113
113	Christopher Newport U.	1,682	0	0	108	182	1,392	0	0	0	0
114	U. South FL	1,672	0	1,236	331	0	0	0	0	0	105

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
115	U. Akron all campuses	1,660	119	0	0	311	367	43	30	0	790
116	Prairie View A&M U.	1,657	0	0	0	0	109	0	0	0	1,548
117	U. Louisville	1,653	15	189	1,083	0	81	1	0	0	284
118	SUNY Buffalo all campuses	1,646	0	332	1,123	0	18	0	0	0	173
119	U. RI	1,642	0	1,465	0	0	0	55	0	0	122
120	Yale U.	1,639	0	444	218	0	343	0	0	0	634
121	NJ Institute of Technology	1,638	21	0	0	77	1,356	0	0	0	184
122	CA State U. Monterey Bay	1,631	0	1,379	252	0	0	0	0	0	0
123	U. Pittsburgh all campuses	1,604	0	86	91	0	1,392	0	0	0	35
124	Syracuse U. all campuses	1,586	194	0	0	0	115	0	48	42	1,187
125	U. MA Dartmouth	1,573	0	1,541	0	0	32	0	0	0	0
126	VA Commonwealth U.	1,544	0	0	752	0	69	0	0	0	723
127	U. NC Chapel Hill	1,513	0	178	694	0	336	0	305	0	0
128	Northeastern U.	1,508	0	0	0	0	24	0	0	0	1,484
129	Bowie State U.	1,500	1,400	0	100	0	0	0	0	0	0
130	U. CA, Riverside	1,499	0	1,164	335	0	0	0	0	0	0
131	IN U. all campuses	1,488	204	156	192	0	654	0	189	0	93
132	Clemson U.	1,463	0	0	0	0	1,025	0	0	0	438
133	U. MS all campuses	1,425	32	0	179	0	0	0	39	198	977
134	Howard U.	1,423	458	0	0	0	705	0	0	0	260
135	Clark Atlanta U.	1,404	0	0	0	0	1,021	0	0	226	157
136	Morehouse School of Medicine	1,395	0	0	1,395	0	0	0	0	0	0
137	U. PA	1,380	48	0	112	0	1,034	0	0	0	186
138	Marshall U.	1,354	0	0	136	0	1	0	0	0	1,217
139	U. NV, Reno	1,338	7	506	55	142	187	0	0	0	441
140	CA State U. Los Angeles	1,329	0	0	0	0	156	0	0	0	1,173
141	San Diego State U.	1,303	0	634	7	0	453	0	0	0	209
142	Tufts U.	1,278	0	303	219	0	414	0	0	0	342
143	U. Dayton	1,213	0	10	0	0	0	0	0	0	1,203
144	Western KY U.	1,195	0	0	0	0	1,195	0	0	0	0
145	Rowan U.	1,175	0	0	0	0	1,147	0	0	0	28
146	Embry-Riddle Aeronautical U.	1,164	0	75	0	6	174	0	0	289	620
147	U. UT	1,137	0	766	156	0	0	0	0	0	215
148	FL A&M U.	1,114	0	0	4	0	805	0	0	0	305
149	NY U.	1,097	0	0	443	86	158	24	386	0	0
150	OR Health & Science U.	1,037	934	0	103	0	0	0	0	0	0
151	FL Atlantic U.	1,007	0	0	0	0	7	0	0	0	1,000
152	U. Denver	997	0	0	0	0	428	0	0	0	569

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
153	C. Charleston	989	4	900	0	0	85	0	0	0	0
154	U. VT	985	0	23	76	886	0	0	0	0	0
155	U. IL Chicago	947	0	119	192	0	256	0	0	0	380
156	GA State U.	917	0	0	0	0	917	0	0	0	0
157	U. West FL	911	907	0	0	0	4	0	0	0	0
158	U. PR Mayaguez Campus	907	0	124	111	0	70	0	0	0	602
159	U. TX Health Science Ctr. Houston	893	0	0	893	0	0	0	0	0	0
160	U. MA Lowell	886	0	685	0	0	152	0	0	0	49
161	U. GA	876	0	78	558	0	240	0	0	0	0
162	Brigham Young U. all campuses	856	0	0	0	0	85	0	0	0	771
163	U. AR Little Rock	836	0	0	0	0	45	0	0	0	791
164	Polytechnic U.	828	278	0	0	0	0	0	0	0	550
165	SD School of Mines and Technology	808	0	728	0	0	0	0	0	5	75
166	U. PR Rio Piedras Campus	808	0	0	0	0	808	0	0	0	0
167	U. DE	792	0	142	0	0	359	0	0	0	291
168	U. of Notre Dame	757	0	0	0	0	329	0	0	0	428
169	OH U. all campuses	754	95	186	70	0	273	0	0	0	130
170	OK State U. all campuses	750	2	3	99	0	416	0	0	0	230
171	Woods Hole Oceanographic Institution	743	0	629	0	0	0	0	0	0	114
172	Brandeis U.	734	0	0	685	0	49	0	0	0	0
173	Desert Research Institute	721	0	596	0	0	0	0	0	125	0
174	FL Institute of Technology	717	72	147	174	0	307	0	0	0	17
175	U. ME	685	3	517	51	0	3	0	0	0	111
176	C. of William and Mary all campuses	660	96	0	42	2	520	0	0	0	0
177	ID State U.	642	0	625	0	0	11	0	0	0	6
178	Bowling Green State U. all campuses	628	0	72	107	0	35	0	0	0	414
179	Marquette U.	610	0	0	575	0	5	0	0	0	30
180	CA State U. Northridge	602	0	0	0	0	103	0	0	0	499
181	U. TX M. D. Anderson Cancer Ctr.	601	0	0	601	0	0	0	0	0	0
182	NM Highlands U.	569	0	0	56	0	513	0	0	0	0
183	Wayne State U.	557	0	0	336	0	0	0	24	0	197
184	WA State U.	553	0	0	140	0	204	0	0	0	209
185	American U.	538	0	0	0	0	265	0	0	0	273
186	U. Hartford	513	0	0	0	0	0	0	0	0	513
187	Tuskegee U.	512	0	0	134	0	0	0	0	0	378
188	U. WI Green Bay	510	0	510	0	0	0	0	0	0	0
189	Pomona C.	509	0	39	470	0	0	0	0	0	0
190	MI Technological U.	506	66	136	0	0	151	0	0	0	153

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
191	SUNY Albany	505	0	505	0	0	0	0	0	0	0
192	U. MA Worcester	501	0	0	501	0	0	0	0	0	0
193	CUNY Medgar Evers C.	476	266	88	0	0	122	0	0	0	0
194	Portland State U.	469 e	2 e	109 e	99 e	0 e	41 e	0 e	21 e	0 e	197 e
195	U. CA, San Francisco	463	0	0	300	0	163	0	0	0	0
196	SD State U.	453	0	133	56	0	5	0	0	0	259
197	Wright State U. all campuses	451	26	72	0	0	169	126	0	0	58
198	TN Technological U.	440	0	0	0	0	0	0	0	0	440
199	Jackson State U.	436	236	1	9	0	22	0	0	0	168
200	Clarkson U.	424	0	0	0	0	0	0	0	0	424
201	Medical C. GA	405	0	0	405	0	0	0	0	0	0
202	TX A&M U. Corpus Christi	375	0	1	0	373	0	0	0	1	0
203	Elizabeth City State U.	351	0	0	0	0	0	0	0	0	351
204	Kent State U. all campuses	347	0	58	129	0	160	0	0	0	0
205	Western MI U.	346	0	126	0	0	138	0	0	0	82
206	Wichita State U.	335	0	0	0	0	80	0	0	0	255
207	U. OR	334	0	7	216	0	111	0	0	0	0
208	CA State Polytechnic U. San Luis Obispo	328	0	0	194	0	0	0	0	0	134
209	U. Memphis, The	321	0	20	0	245	42	14	0	0	0
210	U.S. Naval Academy	320	0	0	0	11	0	0	0	0	309
211	U. MD Ctr. for Environmental Science	310	0	310	0	0	0	0	0	0	0
212	CA State Polytechnic U. Pomona	305	0	0	0	0	0	0	0	0	305
213	U. TX Southwestern Medical Ctr. Dallas	299	0	0	299	0	0	0	0	0	0
214	Medical C. WI	281	0	0	281	0	0	0	0	0	0
215	Wesleyan U.	272	0	92	0	0	180	0	0	0	0
216	Mt. Holyoke C.	269	0	232	0	37	0	0	0	0	0
217	Grambling State U.	262	0	0	0	0	262	0	0	0	0
218	U. of Medicine and Dentistry NJ	248	0	0	248	0	0	0	0	0	0
219	U. LA Lafayette	242	0	0	224	0	0	0	0	0	18
220	Ball State U.	231	0	7	118	0	13	0	93	0	0
221	Stevens Institute of Technology	231	0	116	0	0	1	0	0	83	31
222	Coastal Carolina U.	230	0	221	1	0	8	0	0	0	0
223	Wellesley C.	215	0	0	0	0	203	12	0	0	0
224	NM Institute of Mining and Technology	213	0	0	30	0	8	0	0	100	75
225	Hendrix C.	208	0	0	0	0	0	0	0	0	208
226	Worcester Polytechnic Institute	202	0	0	0	0	0	0	0	0	202
227	Georgetown U.	200	0	0	169	0	31	0	0	0	0
228	Roanoke C.	195	0	0	0	0	195	0	0	0	0
229	Southern Methodist U.	189	0	0	189	0	0	0	0	0	0

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
230	TX A&M U. System Health Science Ctr.	184	0	0	49	0	0	0	0	0	135
231	Emory U.	183	0	0	59	0	124	0	0	0	0
232	Rosalind Franklin U. of Medicine and Science	174	0	0	174	0	0	0	0	0	0
233	Southern IL U. Carbondale	174	0	74	0	0	30	0	0	0	70
234	U. AR main campus	171	0	106	5	0	7	0	0	0	53
235	Wake Forest U.	161	0	0	161	0	0	0	0	0	0
236	SUNY C. Plattsburgh	155	0	0	0	0	155	0	0	0	0
237	CA State U. San Bernardino	153	0	0	0	0	99	0	0	0	54
238	TX A&M U. Kingsville	147	0	0	0	0	0	0	0	0	147
239	Loyola U. Chicago	145	0	0	0	0	0	145	0	0	0
240	Middle TN State U.	142	0	0	0	0	2	0	0	0	140
241	U.S. Air Force Academy	140	0	0	0	0	0	0	0	0	140
242	CUNY York C.	133	0	0	0	0	133	0	0	0	0
243	U. Tulsa	132	0	0	0	0	123	0	0	0	9
244	U. TX San Antonio	131	0	0	0	0	0	0	0	0	131
245	Boise State U.	124	21	65	0	0	15	0	0	0	23
246	Furman U.	123	10	5	0	0	6	102	0	0	0
247	Temple U.	120	0	0	33	0	87	0	0	0	0
248	U. TX Arlington	119	0	0	0	86	7	0	0	0	26
249	U. Puget Sound	117	0	0	0	0	0	0	0	117	0
250	Uniformed Services U. of the Health Sciences	116	0	0	116	0	0	0	0	0	0
251	IL Institute of Technology	114	0	0	0	0	0	0	0	0	0
252	Shaw U.	114	0	56	0	58	0	0	0	0	0
253	U. North TX Health Science Ctr. Ft. Worth	111	0	0	111	0	0	0	0	0	0
254	U. San Diego	108	0	0	0	0	108	0	0	0	0
255	U. WI Milwaukee	104	103	0	0	0	0	0	0	0	1
256	OR Institute of Technology	103	103	0	0	0	0	0	0	0	0
257	C. of the Holy Cross	100	0	0	0	0	100	0	0	0	0
258	WV State C.	100	0	0	0	0	100	0	0	0	0
259	Central WA U.	91	0	91	0	0	0	0	0	0	0
260	James Madison U.	89	64	0	0	12	0	0	0	0	13
261	Kettering U.	78	0	0	0	0	0	0	0	0	78
262	Southern U. and A&M C. all campuses	76	0	0	0	0	74	0	0	0	2
263	U. NC Charlotte	76	0	0	0	0	42	0	0	0	34
264	Spelman C.	67	0	0	0	0	67	0	0	0	0
265	IL State U.	65	0	0	0	0	65	0	0	0	0
266	Albany State U.	63	0	0	63	0	0	0	0	0	0

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
267	U. PR Humacao U. C.	61	0	0	0	0	61	0	0	0	0
268	IN State U. all campuses	60	0	60	0	0	0	0	0	0	0
269	Northern AZ U.	60	0	0	0	0	55	0	0	0	5
270	U. of the VI	60	0	0	60	0	0	0	0	0	0
271	John Carroll U.	59	0	0	0	0	59	0	0	0	0
272	St. Louis U. all campuses	57 e	0 e	0 e	0 e	44 e	13 e	0 e	0 e	0 e	0 e
273	TX State U. San Marcos	57	0	0	32	0	25	0	0	0	0
274	Valparaiso U.	57	0	0	0	0	57	0	0	0	0
275	VA State U.	57	0	0	57	0	0	0	0	0	0
276	Oakland U.	56	0	0	56	0	0	0	0	0	0
277	Smith C.	55	0	0	0	0	55	0	0	0	0
278	Youngstown State U.	53	0	0	0	49	0	0	0	0	4
279	SUNY Purchase C.	49	0	49	0	0	0	0	0	0	0
280	Lawrence Technological U.	48	0	0	0	0	0	0	0	0	48
281	U. WI Whitewater	48	0	3	0	0	45	0	0	0	0
282	East TN State U.	47	0	0	0	0	47	0	0	0	0
283	Lafayette C.	47	0	0	0	0	47	0	0	0	0
284	CUNY Hunter C.	40	0	40	0	0	0	0	0	0	0
285	Augustana C. (Sioux Falls, SD)	38	38	0	0	0	0	0	0	0	0
286	SUNY Binghamton	38	0	0	0	0	0	0	0	0	38
287	Swarthmore C.	38	0	0	0	0	38	0	0	0	0
288	Bucknell U.	37	0	0	0	0	0	0	0	0	37
289	U. Houston-Clear Lake	37	37	0	0	0	0	0	0	0	0
290	U. KY all campuses	36	0	0	0	0	36	0	0	0	0
291	Savannah State U.	35	0	0	0	0	0	0	0	0	35
292	U. North TX	34	0	0	0	0	10	0	0	0	24
293	CUNY C. Staten Island	33	0	0	0	0	33	0	0	0	0
294	GA Southern U.	33	0	0	0	0	33	0	0	0	0
295	Augsburg C.	32	0	32	0	0	0	0	0	0	0
296	Denison U.	31	0	0	0	0	31	0	0	0	0
297	Northern KY U.	29	0	0	0	0	29	0	0	0	0
298	Xavier U. LA	29	0	0	0	0	29	0	0	0	0
299	Murray State U.	28	0	2	16	0	10	0	0	0	0
300	U. MO-St. Louis	28	0	0	0	0	28	0	0	0	0
301	Trinity C. (Hartford, CT)	26	6	0	0	0	0	0	0	0	20
302	Thomas Jefferson U.	24	0	0	24	0	0	0	0	0	0
303	U. MO-Kansas City	24	0	0	0	0	24	0	0	0	0
304	MS Valley State U.	23	9	0	0	0	0	0	0	0	14
305	Oberlin C.	23	0	0	0	0	23	0	0	0	0

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
306	Pittsburg State U.	23	0	0	0	0	0	0	0	0	23
307	TX Christian U.	23	0	0	0	0	23	0	0	0	0
308	U. South AL	23	0	1	22	0	0	0	0	0	0
309	East Carolina U.	22	0	20	0	0	0	0	0	0	2
310	U. Central OK	22	0	0	0	0	0	0	0	0	22
311	U. of St. Thomas (St. Paul, MN)	22	0	0	0	0	22	0	0	0	0
312	Milwaukee School of Engineering	20	0	0	0	0	0	0	0	0	20
313	U. NC Wilmington	20	0	0	20	0	0	0	0	0	0
314	West Chester U. PA	20	0	0	0	0	20	0	0	0	0
315	St. Cloud State U.	19	0	19	0	0	0	0	0	0	0
316	U. TX-Pan American	19	0	0	2	0	0	0	0	0	17
317	Ft. Lewis C.	17	0	0	0	0	17	0	0	0	0
318	Eastern KY U.	16	0	0	0	0	16	0	0	0	0
319	ND State U. all campuses	15	0	0	0	0	4	0	0	1	10
320	Lamar U.	14	0	12	0	0	0	0	0	0	2
321	U. Redlands	13	0	0	0	0	12	0	0	0	1
322	CUNY Queens C.	12	0	0	0	0	12	0	0	0	0
323	Lehigh U.	12	0	12	0	0	0	0	0	0	0
324	Mercer U. all campuses	12	0	0	0	0	0	0	0	0	12
325	U. WI La Crosse	12	0	0	0	0	12	0	0	0	0
326	Franklin & Marshall C.	10	0	0	0	0	10	0	0	0	0
327	Saginaw Valley State U.	10	0	0	0	7	3	0	0	0	0
328	Calvin C.	9	0	0	0	0	0	0	0	0	9
329	MT Tech of the U. MT	9	0	0	0	0	5	0	0	0	4
330	U. WI Eau Claire	9	0	0	0	0	9	0	0	0	0
331	U. WI Parkside	9	0	0	0	0	9	0	0	0	0
332	U. Houston-Downtown	8	0	0	0	0	8	0	0	0	0
333	CA State U. Dominguez Hills	7	0	0	0	0	7	0	0	0	0
334	Radford U.	7	0	7	0	0	0	0	0	0	0
335	Towson U.	7	0	0	0	0	7	0	0	0	0
336	U. HI Hilo	7	0	0	0	0	7	0	0	0	0
337	U. MA Boston	7	0	7	0	0	0	0	0	0	0
338	Roger Williams U. Bristol	6	0	0	6	0	0	0	0	0	0
339	Barnard C.	5 e	0 e	0 e	0 e	0 e	0 e	5 e	0 e	0 e	0 e
340	Carleton C.	5	0	0	0	0	5	0	0	0	0
341	Iona C.	5	0	0	0	0	5	0	0	0	0
342	Macalester C.	5	0	0	0	0	5	0	0	0	0
343	U. Northern CO	5	0	0	0	0	5	0	0	0	0

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
344	Whitman C.	5	0	0	0	0	5	0	0	0	0
345	Colgate U.	3	0	0	0	0	3	0	0	0	0
346	DePaul U.	3	3	0	0	0	0	0	0	0	0
347	Hope C.	3	0	0	0	0	0	0	0	0	3
348	Trinity U.	3	0	0	0	0	0	0	0	0	3
349	Appalachian State U.	2	0	0	0	0	2	0	0	0	0
350	Grand Valley State U.	2	0	0	2	0	0	0	0	0	0
351	CA State U. Fullerton	1	0	0	0	0	0	0	0	0	1
352	C. Wooster	1	0	0	0	0	0	0	0	0	0
353	Drake U.	1	0	0	0	0	0	0	0	1	0
	Abilene Christian U.	0	0	0	0	0	0	0	0	0	0
	Air Force Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Albany C. of Pharmacy	0	0	0	0	0	0	0	0	0	0
	Albany Medical C.	0	0	0	0	0	0	0	0	0	0
	Alcorn State U.	0	0	0	0	0	0	0	0	0	0
	Alfred U. all campuses	0	0	0	0	0	0	0	0	0	0
	Allegheny C.	0	0	0	0	0	0	0	0	0	0
	Amherst C.	0	0	0	0	0	0	0	0	0	0
	Andrews U.	0	0	0	0	0	0	0	0	0	0
	AR State U. main campus	0	0	0	0	0	0	0	0	0	0
	Augustana C. (Rock Island, IL)	0	0	0	0	0	0	0	0	0	0
	Bates C.	0	0	0	0	0	0	0	0	0	0
	Baylor U.	0	0	0	0	0	0	0	0	0	0
	Benedict C.	0	0	0	0	0	0	0	0	0	0
	Bethune-Cookman C.	0	0	0	0	0	0	0	0	0	0
	Black Hills State U.	0	0	0	0	0	0	0	0	0	0
	Bluefield State C.	0	0	0	0	0	0	0	0	0	0
	Bowdoin C.	0	0	0	0	0	0	0	0	0	0
	Bradley U.	0	0	0	0	0	0	0	0	0	0
	Bridgewater State C.	0	0	0	0	0	0	0	0	0	0
	Bryn Mawr C.	0	0	0	0	0	0	0	0	0	0
	CA State U. Fresno	0	0	0	0	0	0	0	0	0	0
	CA State U. Long Beach	0	0	0	0	0	0	0	0	0	0
	Central CT State U.	0	0	0	0	0	0	0	0	0	0
	Central MI U.	0	0	0	0	0	0	0	0	0	0
	Chapman U.	0	0	0	0	0	0	0	0	0	0
	Charles R. Drew U. of Medicine and Science	0	0	0	0	0	0	0	0	0	0
	Claffin U.	0	0	0	0	0	0	0	0	0	0

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Claremont Graduate U.	0	0	0	0	0	0	0	0	0	0
	Colby C.	0	0	0	0	0	0	0	0	0	0
	CO State U. Pueblo	0	0	0	0	0	0	0	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0	0	0
	CUNY Baruch C.	0	0	0	0	0	0	0	0	0	0
	CUNY Brooklyn C.	0	0	0	0	0	0	0	0	0	0
	CUNY Graduate Ctr.	0	0	0	0	0	0	0	0	0	0
	CUNY Herbert H. Lehman C.	0	0	0	0	0	0	0	0	0	0
	CUNY John Jay C. of Criminal Justice	0	0	0	0	0	0	0	0	0	0
	Des Moines U. Osteopathic Medical Ctr.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Dickinson C.	0	0	0	0	0	0	0	0	0	0
	Dillard U.	0	0	0	0	0	0	0	0	0	0
	Duquesne U.	0	0	0	0	0	0	0	0	0	0
	Eastern MI U.	0	0	0	0	0	0	0	0	0	0
	Eastern OR U.	0	0	0	0	0	0	0	0	0	0
	Eastern WA U.	0	0	0	0	0	0	0	0	0	0
	Evergreen State C.	0	0	0	0	0	0	0	0	0	0
	Fairfield U.	0	0	0	0	0	0	0	0	0	0
	Fayetteville State U.	0	0	0	0	0	0	0	0	0	0
	FL Gulf Coast U.	0	0	0	0	0	0	0	0	0	0
	Fordham U.	0	0	0	0	0	0	0	0	0	0
	Ft. Valley State U.	0	0	0	0	0	0	0	0	0	0
	Gallaudet U.	0	0	0	0	0	0	0	0	0	0
	Grinnell C.	0	0	0	0	0	0	0	0	0	0
	Gustavus Adolphus C.	0	0	0	0	0	0	0	0	0	0
	Hamilton C. (Clinton, NY)	0	0	0	0	0	0	0	0	0	0
	Hampshire C.	0	0	0	0	0	0	0	0	0	0
	Hartwick C.	0	0	0	0	0	0	0	0	0	0
	Indiana U. PA all campuses	0	0	0	0	0	0	0	0	0	0
	Ithaca C.	0	0	0	0	0	0	0	0	0	0
	Jarvis Christian C.	0	0	0	0	0	0	0	0	0	0
	Juniata C.	0	0	0	0	0	0	0	0	0	0
	Kalamazoo C.	0	0	0	0	0	0	0	0	0	0
	KS State U.	0	0	0	0	0	0	0	0	0	0
	Kennesaw State U.	0	0	0	0	0	0	0	0	0	0
	KY State U.	0	0	0	0	0	0	0	0	0	0
	Kirksville C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	La Salle U.	0	0	0	0	0	0	0	0	0	0
	Lake Forest C.	0	0	0	0	0	0	0	0	0	0

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Langston U.	0	0	0	0	0	0	0	0	0	0
	Lewis and Clark C.	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Jefferson City, MO)	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Lincoln University, PA)	0	0	0	0	0	0	0	0	0	0
	Loyola Marymount U.	0	0	0	0	0	0	0	0	0	0
	Maharishi U. of Management	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	MA C. of Pharmacy and Health Sciences	0	0	0	0	0	0	0	0	0	0
	McNeese State U.	0	0	0	0	0	0	0	0	0	0
	Medical C. OH	0	0	0	0	0	0	0	0	0	0
	Medical U. SC	0	0	0	0	0	0	0	0	0	0
	Meharry Medical C.	0	0	0	0	0	0	0	0	0	0
	Midwestern U. (Chicago, IL)	0	0	0	0	0	0	0	0	0	0
	Morehead State U.	0	0	0	0	0	0	0	0	0	0
	Mt. Sinai School of Medicine	0	0	0	0	0	0	0	0	0	0
	Mt. St. Mary's C. (Los Angeles, CA)	0	0	0	0	0	0	0	0	0	0
	National U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	New C. FL	0	0	0	0	0	0	0	0	0	0
	New England C. of Optometry	0	0	0	0	0	0	0	0	0	0
	NJ City U.	0	0	0	0	0	0	0	0	0	0
	NY Institute of Technology all campuses	0	0	0	0	0	0	0	0	0	0
	NY Medical C.	0	0	0	0	0	0	0	0	0	0
	Nicholls State U.	0	0	0	0	0	0	0	0	0	0
	Northeastern IL U.	0	0	0	0	0	0	0	0	0	0
	Northeastern OH Universities C. of Medicine	0	0	0	0	0	0	0	0	0	0
	Northern IL U.	0	0	0	0	0	0	0	0	0	0
	Nova Southeastern U.	0	0	0	0	0	0	0	0	0	0
	Pace U. all campuses	0	0	0	0	0	0	0	0	0	0
	PA C. of Optometry	0	0	0	0	0	0	0	0	0	0
	Philadelphia C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Pitzer C.	0	0	0	0	0	0	0	0	0	0
	Ponce School of Medicine	0	0	0	0	0	0	0	0	0	0
	Providence C.	0	0	0	0	0	0	0	0	0	0
	Reed C.	0	0	0	0	0	0	0	0	0	0
	Rider U.	0	0	0	0	0	0	0	0	0	0
	Rockefeller U.	0	0	0	0	0	0	0	0	0	0
	Rose-Hulman Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Rush U.	0	0	0	0	0	0	0	0	0	0
	Seattle U.	0	0	0	0	0	0	0	0	0	0

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Seton Hall U.	0	0	0	0	0	0	0	0	0	0
	Simmons C.	0	0	0	0	0	0	0	0	0	0
	Skidmore C.	0	0	0	0	0	0	0	0	0	0
	Sonoma State U.	0	0	0	0	0	0	0	0	0	0
	Southeastern LA U.	0	0	0	0	0	0	0	0	0	0
	Southeastern OK State U.	0	0	0	0	0	0	0	0	0	0
	Southern CT State U.	0	0	0	0	0	0	0	0	0	0
	Southern IL U. Edwardsville	0	0	0	0	0	0	0	0	0	0
	Southern OR U.	0	0	0	0	0	0	0	0	0	0
	Southern U. New Orleans	0	0	0	0	0	0	0	0	0	0
	Southwest MO State U.	0	0	0	0	0	0	0	0	0	0
	St. Joseph's U.	0	0	0	0	0	0	0	0	0	0
	St. Mary's C. MD	0	0	0	0	0	0	0	0	0	0
	St. Mary's U. (San Antonio, TX)	0	0	0	0	0	0	0	0	0	0
	St. Olaf C.	0	0	0	0	0	0	0	0	0	0
	State U. West GA	0	0	0	0	0	0	0	0	0	0
	Stephen F. Austin State U.	0	0	0	0	0	0	0	0	0	0
	Sul Ross State U.	0	0	0	0	0	0	0	0	0	0
	SUNY C. Brockport	0	0	0	0	0	0	0	0	0	0
	SUNY C. Buffalo	0	0	0	0	0	0	0	0	0	0
	SUNY C. Cortland	0	0	0	0	0	0	0	0	0	0
	SUNY C. Geneseo	0	0	0	0	0	0	0	0	0	0
	SUNY C. of Optometry	0	0	0	0	0	0	0	0	0	0
	SUNY C. Old Westbury	0	0	0	0	0	0	0	0	0	0
	SUNY C. Oswego	0	0	0	0	0	0	0	0	0	0
	SUNY Fredonia	0	0	0	0	0	0	0	0	0	0
	SUNY Upstate Medical U.	0	0	0	0	0	0	0	0	0	0
	Tarleton State U.	0	0	0	0	0	0	0	0	0	0
	Teachers C. Columbia U.	0	0	0	0	0	0	0	0	0	0
	TX A&M U. Commerce	0	0	0	0	0	0	0	0	0	0
	TX Tech U. Health Science Ctr.	0	0	0	0	0	0	0	0	0	0
	TX Woman's U.	0	0	0	0	0	0	0	0	0	0
	Truman State U.	0	0	0	0	0	0	0	0	0	0
	Union C. (Schenectady, NY)	0	0	0	0	0	0	0	0	0	0
	U.S. Coast Guard Academy	0	0	0	0	0	0	0	0	0	0
	Universidad Central del Caribe	0	0	0	0	0	0	0	0	0	0
	U. AR for Medical Sciences	0	0	0	0	0	0	0	0	0	0
	U. AR Pine Bluff	0	0	0	0	0	0	0	0	0	0

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	U. CA Office of the President	0	0	0	0	0	0	0	0	0	0
	U. Detroit Mercy	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	U. Findlay, The	0	0	0	0	0	0	0	0	0	0
	U. GU	0	0	0	0	0	0	0	0	0	0
	U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	U. IL Springfield	0	0	0	0	0	0	0	0	0	0
	U. LA Monroe	0	0	0	0	0	0	0	0	0	0
	U. MD Baltimore	0	0	0	0	0	0	0	0	0	0
	U. MD Biotechnology Institute	0	0	0	0	0	0	0	0	0	0
	U. NC Asheville	0	0	0	0	0	0	0	0	0	0
	U. NC Greensboro	0	0	0	0	0	0	0	0	0	0
	U. North FL	0	0	0	0	0	0	0	0	0	0
	U. Northern IA	0	0	0	0	0	0	0	0	0	0
	U. Portland	0	0	0	0	0	0	0	0	0	0
	U. Richmond	0	0	0	0	0	0	0	0	0	0
	U. San Francisco	0	0	0	0	0	0	0	0	0	0
	U. Scranton	0	0	0	0	0	0	0	0	0	0
	U. SD	0	0	0	0	0	0	0	0	0	0
	U. TX Health Science Ctr. San Antonio	0	0	0	0	0	0	0	0	0	0
	U. DC	0	0	0	0	0	0	0	0	0	0
	U. of the Pacific	0	0	0	0	0	0	0	0	0	0
	U. of the Sciences Philadelphia	0	0	0	0	0	0	0	0	0	0
	U. WI Oshkosh	0	0	0	0	0	0	0	0	0	0
	U. WI River Falls	0	0	0	0	0	0	0	0	0	0
	U. WI Stevens Point	0	0	0	0	0	0	0	0	0	0
	U. WI Stout	0	0	0	0	0	0	0	0	0	0
	U. WI Superior	0	0	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0	0	0
	Wabash C.	0	0	0	0	0	0	0	0	0	0
	West TX A&M U.	0	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Western Carolina U.	0	0	0	0	0	0	0	0	0	0
	Western IL U.	0	0	0	0	0	0	0	0	0	0
	Western U. of Health Sciences	0	0	0	0	0	0	0	0	0	0

TABLE 75. Federally financed R&D expenditures at universities and colleges, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by science and engineering field: FY 2004

(Dollars in thousands)

Rank	Institution	NASA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Western WA U.	0	0	0	0	0	0	0	0	0	0
	Wiley C.	0	0	0	0	0	0	0	0	0	0
	Wilkes U.	0	0	0	0	0	0	0	0	0	0
	Willamette U.	0	0	0	0	0	0	0	0	0	0
	Yeshiva U.	0	0	0	0	0	0	0	0	0	0

e = estimated.

NASA = National Aeronautics and Space Administration.

nec = not elsewhere classified.

NOTES: Institutions that are not listed in this table did not provide federally financed R&D expenditures by federal agency. Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	3,231,597	410,783	520,558	508,430	154,096	720,443	45,749	96,529	51,834	720,131
1	U. CA, San Diego	124,304	64,416	33,756	3,232	1,711	7,534	1,288	752	0	11,615
2	U. IL Urbana-Champaign	112,616	56,186	4,075	6,590	2,323	12,271	1,488	1,353	272	28,058
3	Cornell U. all campuses	90,792	8,161	1,988	17,509	2,585	38,441	934	1,679	0	19,495
4	U. WI Madison	83,096	7,615	31,263	12,327	2,239	16,168	613	1,834	0	11,037
5	CA Institute of Technology	73,816	2,404	3,387	1,843	549	53,149	0	924	1,709	9,851
6	U. CA, Berkeley	70,397	742	2,542	12,130	4,669	18,164	283	2,052	1,160	28,655
7	MA Institute of Technology	69,889	12,142	11,124	2,238	3,224	13,746	209	1,206	6,097	19,903
8	U. WA	69,694	538	26,473	7,254	3,136	9,155	367	1,902	0	20,869
9	Columbia U. in the City of NY	63,100	5,162	23,657	2,113	1,011	20,710	114	1,191	1,343	7,799
10	Carnegie Mellon U.	61,564	37,976	52	379	1,317	2,542	1,655	4,321	95	13,227
11	Woods Hole Oceanographic Institution	58,168	0	52,845	0	0	0	0	0	0	5,323
12	U. MI all campuses	57,662	2,972	2,641	5,731	2,620	8,405	907	5,566	0	28,820
13	TX A&M U. all campuses	54,899	2,206	27,921	7,955	4,512	4,401	240	245	44	7,375
14	Stanford U.	54,810	7,694	8,545	3,871	2,834	8,826	986	2,050	0	20,004
15	U. MN all campuses	45,303	3,373	3,730	9,061	3,615	4,207	277	3,058	0	17,982
16	PA State U. all campuses	44,912	1,214	7,974	6,926	3,568	10,144	452	965	724	12,945
17	U. AZ	44,870	3,088	3,973	15,125	1,845	7,554	239	3,523	0	9,523
18	GA Institute of Technology all campuses	44,213	8,742	2,451	760	2,038	5,382	138	735	783	23,184
19	MI State U.	43,763	1,288	449	10,331	2,651	23,640	722	568	240	3,874
20	U. CO all campuses	42,073	3,421	11,460	5,199	1,354	11,402	976	1,289	32	6,940
21	U. CA, Los Angeles	40,028	8,916	4,334	3,226	2,767	9,670	683	1,627	2,205	6,600
22	U. Southern CA	38,051	12,071	8,985	2,341	902	2,814	1,176	391	18	9,353
23	U. CA, Santa Barbara	37,932	5,496	8,826	559	461	9,238	894	2,620	111	9,727
24	Rutgers, The State U. NJ all campuses	37,323	2,393	5,485	6,851	4,699	9,723	789	360	0	7,023
25	U. TX Austin	36,639	2,572	5,747	6,126	3,483	6,085	256	1,381	430	10,559
26	OH State U. all campuses	36,192	2,428	3,898	6,627	4,086	7,949	634	2,255	569	7,746
27	U. CA, Davis	35,649	1,738	2,183	19,543	1,465	3,415	260	321	36	6,688
28	U. FL	34,934	1,173	1,763	7,681	394	13,796	30	316	0	9,781
29	U. MD College Park	34,564	6,861	1,768	2,351	1,877	12,517	312	1,109	0	7,769
30	Purdue U. all campuses	33,422	4,027	896	7,733	2,501	4,408	434	316	105	13,002
31	U. Chicago	32,312	0	3,096	3,550	2,510	21,633	546	857	0	120
32	FL State U.	31,650	1,820	3,797	2,761	565	21,841	333	533	0	0
33	Princeton U.	30,653	3,234	4,982	2,016	2,138	6,728	308	1,373	0	9,874
34	Harvard U.	29,290	702	3,517	3,545	1,288	10,588	1,372	1,672	0	6,606
35	OR State U.	27,192	1,442	15,160	5,516	308	717	0	87	935	3,027
36	U. MA Amherst	25,523	6,256	1,137	1,554	1,323	9,305	489	168	0	5,291
37	IN U. all campuses	25,476	4,819	1,083	5,154	2,184	8,667	441	2,796	0	332
38	U. HI Manoa	24,388	257	16,178	2,040	44	2,440	0	443	2,239	747

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
39	U. PA	24,239	2,819	103	2,052	1,946	6,702	138	3,142	175	7,162
40	SUNY Stony Brook all campuses	24,229	2,007	7,058	2,488	1,578	7,431	297	1,093	0	2,277
41	AZ State U. main campus	23,918	1,521	1,218	4,313	759	5,639	321	541	418	9,188
42	Northwestern U.	23,058	1,125	204	1,339	783	3,943	199	1,159	2,673	11,633
43	U. CA, Irvine	22,917	5,364	2,450	2,465	697	5,283	266	1,286	0	5,106
44	Duke U.	22,687	3,712	1,852	7,892	1,280	1,999	0	2,604	0	3,348
45	Boston U.	22,564	2,274	919	1,658	1,140	9,963	187	413	353	5,657
46	U. AK Fairbanks all campuses	22,109	46	12,492	5,672	0	116	0	84	120	3,579
47	NC State U.	21,986	1,696	1,246	5,459	2,589	2,915	0	918	240	6,923
48	VA Polytechnic Institute and State U.	20,967	1,346	1,763	5,287	844	2,567	0	497	4	8,659
49	IA State U.	20,963	1,720	1,138	8,302	1,307	1,602	130	74	116	6,574
50	Rice U.	20,114	3,658	1,316	5,479	1,706	4,353	127	189	0	3,286
51	Yale U.	20,039	1,768	2,080	7,164	969	3,553	1,003	735	0	2,767
52	CO State U.	19,953	768	7,442	3,551	1,008	2,892	7	303	0	3,982
53	U. NC Chapel Hill	18,247	2,797	2,531	3,692	580	7,242	1,001	404	0	0
54	SUNY Buffalo all campuses	17,945	1,286	296	2,147	902	2,755	25	967	1	9,566
55	U. GA	17,060	344	1,957	11,238	1,166	2,087	92	141	0	35
56	U. NM all campuses	16,956	1,469	831	5,169	751	1,734	124	1,295	3,342	2,241
57	U. UT	16,860	2,870	1,334	3,154	1,166	5,675	245	189	0	2,227
58	Northeastern U.	16,845	1,095	0	906	397	7,664	439	0	0	6,344
59	U. Pittsburgh all campuses	16,475	997	456	2,844	756	4,328	1	222	3,509	3,362
60	U. VA all campuses	16,071	2,952	1,922	1,692	524	2,752	3	1,114	7	5,105
61	Brown U.	15,966	3,934	1,403	2,158	2,098	2,252	17	645	0	3,459
62	U. KY all campuses	15,738	1,850	129	4,050	3,462	2,042	0	348	1,111	2,746
63	U. NE all campuses	15,481	1,765	944	5,656	515	3,651	151	409	1,083	1,307
64	NY U.	15,437	2,622	0	1,830	3,641	3,206	789	2,588	761	0
65	Rensselaer Polytechnic Institute	15,351	1,012	794	94	810	1,438	0	284	0	10,919
66	U. DE	14,876	621	4,585	1,241	324	3,174	239	144	132	4,416
67	U. IL Chicago	14,531	3,991	516	1,230	2,455	2,463	375	125	98	3,278
68	U. CA, Santa Cruz	14,386	1,040	3,542	643	322	6,950	119	220	0	1,550
69	U. of Notre Dame	14,180	798	0	1,611	1,152	6,230	0	173	33	4,183
70	U. KS all campuses	14,107	270	1,241	5,850	521	1,775	5	322	733	3,390
71	U. CT all campuses	13,441	1,154	1,418	4,054	423	2,432	391	333	73	3,163
72	U. Miami	13,266	0	10,977	462	284	876	0	193	0	474
73	Vanderbilt U.	12,625	0	146	1,251	529	2,686	792	384	0	6,837
74	Washington U. St. Louis	12,267	1,724	1,122	3,940	407	3,255	0	380	0	1,439
75	U. Rochester	12,043	1,494	845	2,222	324	3,479	1,914	550	51	1,164
76	MT State U. Bozeman	11,380	129	500	2,780	685	3,616	0	55	2,579	1,036
77	U. CA, Riverside	11,258	1,365	1,638	3,836	143	1,948	241	873	0	1,214

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
78	U. OK all campuses	11,053	196	3,095	1,761	366	2,612	183	229	0	2,611
79	U. OR	10,971	1,609	1,328	2,734	468	3,947	113	713	0	59
80	U. MO-Columbia	10,882	114	553	6,896	687	973	108	83	0	1,468
81	Clemson U.	10,866	520	0	1,604	405	1,887	30	10	0	6,410
82	U. ME	10,760	195	5,356	2,563	81	1,032	0	150	0	1,383
83	U. TN all campuses	10,562	1,716	334	4,205	314	1,815	102	239	85	1,752
84	U. RI	10,528	32	8,454	594	29	187	0	0	309	923
85	U. SC all campuses	10,391	351	2,301	1,517	464	3,024	210	289	60	2,175
86	LA State U. all campuses	10,167	390	896	2,054	250	4,502	81	236	0	1,758
87	WA State U.	9,504	0	981	4,364	389	1,045	28	421	0	2,276
88	U. South FL	9,015	0	3,191	812	39	1,027	171	312	4	3,459
89	U. AL, The	8,975	489	323	583	90	673	0	71	0	6,746
90	Lehigh U.	8,941	140	1,529	394	88	715	110	0	0	5,965
91	U. IA	8,891	582	349	1,954	1,635	1,800	0	232	0	2,339
92	Syracuse U. all campuses	8,839	647	633	1,117	497	3,138	12	305	969	1,521
93	Dartmouth C.	8,329	667	473	3,066	362	1,324	842	56	6	1,533
94	C. of William and Mary all campuses	7,413	980	3,705	565	211	1,831	0	121	0	0
95	OK State U. all campuses	7,245	1	51	1,907	237	949	0	16	2,145	1,939
96	Case Western Reserve U.	7,003	175	134	1,316	270	2,242	0	182	0	2,684
97	U. ID	6,810	82	1,002	2,041	54	997	0	46	1,801	787
98	U. NV, Reno	6,703	66	1,061	2,953	367	703	4	49	0	1,500
99	Drexel U.	6,645	512	0	152	136	505	0	0	0	5,340
100	Emory U.	6,093	0	76	3,325	281	1,924	281	206	0	0
101	U. NH	6,089	233	3,455	1,475	116	258	0	111	34	407
102	U. MT, The	5,902	108	276	3,953	729	778	0	58	0	0
103	Wayne State U.	5,861	602	0	507	251	2,939	87	157	0	1,318
104	NM State U. all campuses	5,812	1,244	471	1,292	93	732	0	446	0	1,534
105	GA State U.	5,739	513	187	344	29	616	3,741	309	0	0
106	U. Houston	5,696	766	235	676	690	1,640	112	122	0	1,455
107	George Mason U.	5,639	463	200	2,264	1,297	157	53	362	0	843
108	U. AR main campus	5,630	0	580	920	145	2,301	26	129	0	1,529
109	ND State U. all campuses	5,478	666	59	1,183	32	908	263	378	1,042	947
110	MS State U.	5,385	789	70	1,519	160	722	61	98	324	1,642
111	Auburn U. all campuses	5,346	0	57	1,597	86	806	84	149	65	2,502
112	U. VT	5,223	0	191	1,272	43	564	0	1	2,906	246
113	OR Health & Science U.	5,219	4,545	0	674	0	0	0	0	0	0
114	U. Central FL	5,138	0	0	260	123	368	0	149	107	4,131
115	Desert Research Institute	4,994	0	3,138	0	0	0	0	0	1,856	0
116	Tufts U.	4,949	564	0	822	196	1,076	210	0	0	2,081

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
117	NJ Institute of Technology	4,940	794	0	0	495	2,140	0	32	80	1,399
118	U. TX Dallas	4,844	542	797	1,452	29	1,365	21	75	88	475
119	U. Cincinnati all campuses	4,798	0	48	477	127	1,374	0	248	7	2,517
120	San Diego State U.	4,741	86	551	2,082	466	1,004	40	0	41	471
121	SUNY Albany	4,701	676	1,409	1,374	75	400	69	458	0	240
122	U. MO-Rolla	4,689	43	71	106	0	540	0	0	0	3,929
123	MI Technological U.	4,475	464	909	184	99	470	0	0	0	2,349
124	CUNY City C.	4,430	0	0	434	108	3,093	0	41	0	754
125	Old Dominion U.	4,424	445	1,893	233	42	486	144	1	0	1,180
126	U. Akron all campuses	4,322	0	321	707	112	1,929	0	101	0	1,152
127	U. TX El Paso	4,314	517	480	132	20	1,512	0	0	0	1,653
128	Tulane U.	4,280	0	298	1,192	933	936	230	17	0	674
129	Brandeis U.	4,211	582	0	1,253	438	1,894	0	44	0	0
130	U. MD Baltimore County	4,070	1,305	509	760	269	452	0	53	0	722
131	George Washington U.	4,068	1,476	170	428	17	153	20	850	0	954
132	U. Southern MS	4,008	0	543	226	0	2,640	0	0	550	49
133	TX Tech U.	4,003	17	235	322	333	913	37	86	0	2,060
134	Brigham Young U. all campuses	3,970	480	132	996	176	813	0	8	0	1,365
135	WV U.	3,954	5	101	386	294	1,024	0	191	10	1,943
136	U. NC Charlotte	3,948	1,485	78	17	284	555	0	449	0	1,080
137	San Jose State U.	3,904	0	2,618	219	133	603	0	29	0	302
138	CA State U. Fullerton	3,701	0	149	641	0	0	81	2,830	0	0
139	SD State U.	3,616	0	6	3,020	0	110	0	0	0	480
140	OH U. all campuses	3,574	0	491	1,022	0	1,647	0	24	0	390
141	Worcester Polytechnic Institute	3,572	407	0	403	263	399	0	192	0	1,908
142	U. WI Milwaukee	3,520	153	439	231	396	1,653	0	60	0	588
143	Portland State U.	3,509 e	1,013 e	795 e	503 e	698 e	181 e	0 e	74 e	0 e	245 e
144	Western MI U.	3,505	75	743	45	1,779	327	0	33	0	503
145	CO School of Mines	3,400	0	215	0	653	405	0	0	0	2,127
146	UT State U.	3,329	31	481	1,005	140	905	461	148	0	158
147	U. TX Arlington	3,211	0	83	354	44	441	137	0	0	2,152
148	Jackson State U.	3,154	471	0	1,035	36	1,432	0	0	9	171
149	U. AL Birmingham, The	3,154	447	0	963	269	523	0	79	0	873
150	TX A&M U. Corpus Christi	3,097	431	0	158	1,343	965	0	0	0	200
151	Kent State U. all campuses	3,066	263	453	513	176	1,551	95	15	0	0
152	U. MD Biotechnology Institute	2,995	0	1,602	1,393	0	0	0	0	0	0
153	Polytechnic U.	2,906	800	0	0	121	154	0	0	0	1,831
154	Northern AZ U.	2,837	145	251	1,867	45	328	0	110	91	0
155	CA State U. Los Angeles	2,836	0	967	816	85	578	0	74	0	316

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
156	Northern IL U.	2,814	215	830	398	149	881	152	0	0	189
157	Temple U.	2,801	337	87	348	198	413	901	7	0	510
158	Georgetown U.	2,797	84	0	1,094	129	1,174	246	70	0	0
159	IL Institute of Technology	2,796	0	0	0	0	0	0	0	0	0
160	U. MD Ctr. for Environmental Science	2,777	0	2,777	0	0	0	0	0	0	0
161	U. Tulsa	2,680	1,428	106	505	0	531	0	6	0	104
162	Southern IL U. Carbondale	2,671	0	312	1,076	101	318	83	39	183	559
163	SD School of Mines and Technology	2,661	0	1,424	0	0	108	0	0	33	1,096
164	U. Memphis, The	2,604	0	512	151	470	214	1,043	0	0	214
165	Howard U.	2,603	629	0	407	58	297	0	121	0	1,091
166	U. Louisville	2,569	162	118	594	30	590	8	46	0	1,021
167	Clarkson U.	2,515	0	0	40	59	638	0	0	0	1,778
168	U. SD	2,374	140	80	285	0	1,467	0	402	0	0
169	U. ND all campuses	2,343	16	137	920	0	485	0	0	181	604
170	U. PR Rio Piedras Campus	2,262	0	1,040	861	301	60	0	0	0	0
171	FL Atlantic U.	2,213	149	57	337	308	987	0	49	0	326
172	VA Commonwealth U.	2,198	0	0	539	66	488	0	102	0	1,003
173	Clark Atlanta U.	2,134	123	0	852	0	838	0	0	48	273
174	U. MA Dartmouth	2,100	29	312	0	430	767	113	0	0	449
175	NC Agricultural and Technical State U.	2,053	111	0	0	0	625	0	0	0	1,317
176	Stevens Institute of Technology	2,030	1,198	127	0	40	204	0	0	0	461
177	U. North TX	1,999	276	270	387	166	576	0	123	0	201
178	U. MA Lowell	1,941	279	32	386	29	237	0	150	0	828
179	CUNY Graduate Ctr.	1,933	697	0	1,198	0	38	0	0	0	0
180	CUNY Hunter C.	1,912	216	34	385	0	668	463	146	0	0
181	Wichita State U.	1,868	135	0	107	103	851	1	1	0	670
182	U. PR Humacao U. C.	1,860	0	0	199	0	1,661	0	0	0	0
183	Bowling Green State U. all campuses	1,852	0	98	568	29	464	417	33	243	0
184	West Chester U. PA	1,810	1,420	0	127	263	0	0	0	0	0
185	Hampton U.	1,741	0	122	0	0	1,619	0	0	0	0
186	U. PR Mayaguez Campus	1,731	0	88	0	0	361	0	0	0	1,282
187	NM Institute of Mining and Technology	1,712	18	719	0	0	870	0	0	0	105
188	U. MO-St. Louis	1,657	0	0	1,289	108	253	0	7	0	0
189	Baylor C. of Medicine	1,654	0	0	1,654	0	0	0	0	0	0
190	West TX A&M U.	1,641	0	0	0	0	0	0	0	0	1,641
191	U. AL Huntsville, The	1,590	423	508	4	61	282	0	0	0	312
192	Boise State U.	1,565	190	581	69	115	353	0	0	0	257
193	Marshall U.	1,545	0	0	1,450	0	90	0	0	0	5
194	Ithaca C.	1,522	0	0	265	1,113	0	144	0	0	0
195	Hope C.	1,518	102	34	512	43	763	0	0	0	64

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
196	SUNY Binghamton	1,513	85	201	164	98	582	149	100	0	134
197	Rochester Institute of Technology	1,502	180	0	43	0	353	0	0	0	926
198	CA State U. Northridge	1,448	0	603	100	156	375	0	78	0	136
199	U. Toledo	1,408	0	380	75	0	658	2	58	0	235
200	Western WA U.	1,405	0	676	316	56	268	63	26	0	0
201	Catholic U. America, The	1,402	0	0	129	0	911	59	117	0	186
202	CA State U. Long Beach	1,381	21	384	339	55	46	0	247	289	0
203	Carleton C.	1,361	0	780	186	118	198	76	3	0	0
204	U. MA Boston	1,354	4	253	669	415	0	0	0	13	0
205	Norfolk State U.	1,340	330	0	172	27	773	0	0	0	38
206	Southern Methodist U.	1,325	207	176	0	92	436	0	211	0	203
207	U. CA, San Francisco	1,304	0	0	671	0	633	0	0	0	0
208	FL Institute of Technology	1,284	158	0	253	154	477	0	0	0	242
209	U. of Medicine and Dentistry NJ	1,267	0	0	1,267	0	0	0	0	0	0
210	ID State U.	1,265	0	360	396	32	220	0	162	0	95
211	East Carolina U.	1,258	0	161	894	38	75	0	90	0	0
212	FL A&M U.	1,250	0	0	609	176	120	0	0	0	345
213	Middle TN State U.	1,249	208	0	444	96	501	0	0	0	0
214	IL State U.	1,243	0	0	660	22	561	0	0	0	0
215	U. Denver	1,216	78	0	108	0	675	25	4	0	326
216	U. MS all campuses	1,213	0	0	430	0	537	0	3	0	243
217	Wright State U. all campuses	1,212	471	67	338	80	63	96	0	0	97
218	Yeshiva U.	1,200	0	0	1,200	0	0	0	0	0	0
219	Central WA U.	1,199	68	535	480	0	116	0	0	0	0
220	Mt. Holyoke C.	1,172	80	218	266	191	408	9	0	0	0
221	Rowan U.	1,169	0	0	25	0	210	0	0	0	934
222	Wesleyan U.	1,142	0	26	325	65	543	183	0	0	0
223	Ball State U.	1,138	63	0	780	49	177	67	2	0	0
224	Eastern MI U.	1,138	0	0	551	0	0	534	25	0	28
225	U. NC Wilmington	1,127	0	323	355	23	248	0	178	0	0
226	TN State U.	1,120	53	0	0	179	179	0	0	0	709
227	U. MO-Kansas City	1,112	185	0	542	0	153	0	0	0	232
228	U. NC Greensboro	1,093	0	0	736	132	114	76	35	0	0
229	U. of the VI	1,084	0	0	1,084	0	0	0	0	0	0
230	Thomas Jefferson U.	1,053	0	0	1,053	0	0	0	0	0	0
231	Oakland U.	1,049	181	0	282	23	489	0	0	0	74
232	Teachers C. Columbia U.	1,035	0	0	319	0	0	510	206	0	0
233	C. Charleston	1,034	0	579	51	58	154	0	11	181	0
234	Smith C.	1,019	267	22	263	0	245	126	0	28	68

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
235	James Madison U.	991	76	0	251	43	446	0	0	0	175
236	Clark U.	926 e	0 e	374 e	177 e	0 e	345 e	0 e	30 e	0 e	0 e
237	U. TX Medical Branch	911	0	0	907	0	0	0	0	0	4
238	Duquesne U.	898	0	0	233	157	506	0	2	0	0
239	Marquette U.	888	0	0	162	67	62	0	0	0	597
240	CUNY Queens C.	870	0	321	33	0	333	0	183	0	0
241	Western KY U.	858	0	0	104	59	619	58	0	18	0
242	Bowdoin C.	852	35	321	395	3	71	5	22	0	0
243	Wake Forest U.	827	0	0	459	0	368	0	0	0	0
244	Amherst C.	823	0	103	330	21	369	0	0	0	0
245	U. TX San Antonio	822	421	48	30	172	0	0	31	0	120
246	TX A&M U. System Health Science Ctr.	816	0	0	758	0	0	0	0	0	58
247	TX A&M U. Kingsville	807	0	35	21	0	0	0	0	0	751
248	Wellesley C.	806	0	38	409	0	262	0	53	44	0
249	U. HI Hilo	757	0	300	457	0	0	0	0	0	0
250	U. of the Pacific	741	0	436	305	0	0	0	0	0	0
251	CUNY Brooklyn C.	727	376	0	110	0	47	86	108	0	0
252	Bethune-Cookman C.	723	0	0	589	0	134	0	0	0	0
253	Colgate U.	706	0	281	75	34	199	99	18	0	0
254	U. Dayton	706	0	24	31	0	60	0	0	0	591
255	U. TX Health Science Ctr. San Antonio	686	0	0	686	0	0	0	0	0	0
256	Franklin & Marshall C.	680	0	57	110	0	487	26	0	0	0
257	Bryn Mawr C.	676	47	108	0	247	274	0	0	0	0
258	DePaul U.	673	329	0	148	0	77	0	119	0	0
259	Swarthmore C.	654	31	0	189	7	177	0	116	74	60
260	U. WI Oshkosh	648	1	33	447	0	167	0	0	0	0
261	U. South AL	647	0	214	235	129	29	0	37	0	3
262	U. Northern CO	645	0	110	182	1	0	0	0	352	0
263	U. Richmond	629	0	0	380	11	173	65	0	0	0
264	St. Louis U. all campuses	615 e	0 e	291 e	281 e	43 e	0 e	0 e	0 e	0 e	0 e
265	Lafayette C.	612	0	20	47	17	35	0	0	0	493
266	State U. West GA	603	28	120	200	0	255	0	0	0	0
267	Medical U. SC	596	0	0	596	0	0	0	0	0	0
268	Dickinson C.	592	8	16	357	32	167	12	0	0	0
269	Embry-Riddle Aeronautical U.	588	0	89	0	0	280	0	0	0	219
270	Hampshire C.	580	6	155	59	0	222	63	53	22	0
271	Rockefeller U.	571	0	0	411	93	67	0	0	0	0
272	Loyola U. Chicago	562	15	1	367	91	88	0	0	0	0
273	U. AR for Medical Sciences	561	0	0	561	0	0	0	0	0	0

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
274	U. LA Lafayette	560	108	0	364	87	0	0	0	0	1
275	St. Joseph's U.	558	126	0	364	64	4	0	0	0	0
276	U. North TX Health Science Ctr. Ft. Worth	557	0	0	557	0	0	0	0	0	0
277	Macalester C.	554	0	0	175	50	329	0	0	0	0
278	TN Technological U.	554	29	0	5	0	28	0	0	0	492
279	Drake U.	553	0	235	79	0	232	0	0	7	0
280	Savannah State U.	543	0	300	0	0	0	0	0	0	243
281	Bradley U.	541	106	0	78	0	155	0	0	56	146
282	Morgan State U.	530	0	0	96	0	252	0	38	0	144
283	U. TX Health Science Ctr. Houston	528	0	0	528	0	0	0	0	0	0
284	CUNY C. Staten Island	520	0	0	48	202	230	40	0	0	0
285	U. AR Little Rock	514	250	29	66	0	100	0	0	0	69
286	Bucknell U.	513	0	65	49	0	247	0	0	0	152
287	U. TX Southwestern Medical Ctr. Dallas	510	0	0	510	0	0	0	0	0	0
288	Barnard C.	509 e	0 e	95 e	115 e	42 e	173 e	42 e	42 e	0 e	0 e
289	U. TX-Pan American	506	0	0	172	0	0	0	0	0	334
290	Gustavus Adolphus C.	499	0	74	71	30	296	0	28	0	0
291	Spelman C.	498	20	0	0	69	234	175	0	0	0
292	Youngstown State U.	491	0	0	146	0	312	0	33	0	0
293	Hamilton C. (Clinton, NY)	488	0	196	7	0	265	0	20	0	0
294	Allegheny C.	476	0	14	98	0	364	0	0	0	0
295	Trinity U.	462	0	2	132	82	246	0	0	0	0
296	Augsburg C.	461	107	354	0	0	0	0	0	0	0
297	MT Tech of the U. MT	461	0	56	53	0	0	0	0	0	352
298	Murray State U.	458	0	200	206	49	3	0	0	0	0
299	U. WI Eau Claire	444	35	51	30	30	298	0	0	0	0
300	CA State U. San Bernardino	441	100	180	81	45	0	0	35	0	0
301	U. MA Worcester	434	0	0	434	0	0	0	0	0	0
302	Southern OR U.	431	0	0	371	0	60	0	0	0	0
303	U. TX M. D. Anderson Cancer Ctr.	429	0	0	429	0	0	0	0	0	0
304	Albany State U.	428	0	0	0	0	0	0	0	0	428
305	C. of the Holy Cross	423	25	0	0	78	265	55	0	0	0
306	CUNY Herbert H. Lehman C.	420	161	0	0	164	95	0	0	0	0
307	Southern U. New Orleans	413	0	0	0	0	0	0	0	413	0
308	Bates C.	412	0	200	0	2	210	0	0	0	0
309	Loyola Marymount U.	404	0	0	0	0	56	0	0	0	348
310	Augustana C. (Rock Island, IL)	403	0	75	0	0	328	0	0	0	0
311	U.S. Naval Academy	400	54	0	0	230	116	0	0	0	0
312	SUNY C. Plattsburgh	395	0	395	0	0	0	0	0	0	0

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
313	Morehouse School of Medicine	384	0	0	384	0	0	0	0	0	0
314	U. Houston-Downtown	378	192	0	0	0	186	0	0	0	0
315	IN State U. all campuses	371	0	162	176	0	33	0	0	0	0
316	U.S. Air Force Academy	371	0	0	0	0	371	0	0	0	0
317	U. WI La Crosse	369	110	0	170	0	89	0	0	0	0
318	CA State Polytechnic U. San Luis Obispo	367	0	0	175	112	26	0	0	0	54
319	Skidmore C.	361	0	0	358	0	0	3	0	0	0
320	Colby C.	349	0	26	57	0	183	0	83	0	0
321	Milwaukee School of Engineering	349	0	0	148	0	0	0	0	0	201
322	Chapman U.	347	27	222	98	0	0	0	0	0	0
323	Alfred U. all campuses	340	0	29	0	0	3	0	0	0	308
324	Evergreen State C.	334	46	28	158	0	0	0	0	102	0
325	GA Southern U.	332	0	76	200	0	56	0	0	0	0
326	Whitman C.	325	0	196	99	0	30	0	0	0	0
327	Xavier U. LA	325	83	0	90	0	134	0	0	0	18
328	Southern IL U. Edwardsville	319	33	0	58	65	88	0	0	0	75
329	TX Christian U.	316	0	18	0	0	298	0	0	0	0
330	Furman U.	307	22	115	11	0	159	0	0	0	0
331	Baylor U.	298	0	0	2	16	265	0	15	0	0
332	Rider U.	294	0	0	294	0	0	0	0	0	0
333	Calvin C.	291	0	0	188	28	75	0	0	0	0
334	Morehead State U.	290	0	263	0	0	27	0	0	0	0
335	Trinity C. (Hartford, CT)	290	0	66	44	0	129	0	1	0	50
336	St. Olaf C.	288	0	0	121	0	146	21	0	0	0
337	Union C. (Schenectady, NY)	285	4	6	97	2	17	0	33	0	126
338	St. Cloud State U.	274	0	94	0	0	109	0	71	0	0
339	Southwest MO State U.	273	0	10	16	4	243	0	0	0	0
340	AR State U. main campus	270	0	0	0	0	270	0	0	0	0
341	Claremont Graduate U.	259	78	0	0	0	0	119	62	0	0
342	C. Wooster	248	0	0	0	0	0	0	0	0	0
343	U. WI Stout	243	0	0	134	109	0	0	0	0	0
344	CUNY Baruch C.	231	0	0	29	29	26	147	0	0	0
345	Reed C.	231	0	0	13	0	118	5	95	0	0
346	Tarleton State U.	229	0	0	3	0	226	0	0	0	0
347	U. San Francisco	228	0	0	0	0	146	0	53	29	0
348	Lamar U.	227	28	0	0	25	10	0	0	0	164
349	Grinnell C.	225	0	0	0	0	225	0	0	0	0
350	Oberlin C.	225	0	14	93	0	80	38	0	0	0
351	Prairie View A&M U.	224	0	0	0	0	190	0	0	0	34

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
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Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
352	Lake Forest C.	223	0	0	223	0	0	0	0	0	0
353	Kettering U.	220	0	0	0	20	0	0	0	0	200
354	CA State U. Dominguez Hills	219	0	0	0	108	111	0	0	0	0
355	Mt. Sinai School of Medicine	219	0	0	219	0	0	0	0	0	0
356	U. WI Parkside	218	30	0	23	0	38	127	0	0	0
357	SUNY C. Brockport	217	0	0	169	0	0	0	0	48	0
358	U. WI Whitewater	216	0	15	130	0	71	0	0	0	0
359	Hendrix C.	212	0	87	77	0	47	0	1	0	0
360	Southeastern LA U.	210	0	0	197	0	13	0	0	0	0
361	U. West FL	210	117	93	0	0	0	0	0	0	0
362	SUNY Upstate Medical U.	206	0	0	206	0	0	0	0	0	0
363	Medical C. WI	202	0	0	202	0	0	0	0	0	0
364	Valparaiso U.	194	0	0	40	0	13	0	0	0	141
365	Jarvis Christian C.	187	47	0	47	23	70	0	0	0	0
366	Fordham U.	185	0	0	183	2	0	0	0	0	0
367	Cleveland State U.	184	60	61	0	0	28	0	2	0	33
368	Christopher Newport U.	181	0	0	162	0	19	0	0	0	0
369	Kalamazoo C.	176	0	0	41	0	135	0	0	0	0
370	U. North FL	176	0	0	5	0	133	38	0	0	0
371	Simmons C.	175	0	0	0	0	175	0	0	0	0
372	Lawrence Technological U.	171	0	0	0	0	0	0	0	0	171
373	U. NC Asheville	167	0	9	0	0	129	0	0	29	0
374	Wabash C.	166	0	0	0	0	157	0	9	0	0
375	Towson U.	162	10	0	64	20	36	0	32	0	0
376	Rose-Hulman Institute of Technology	159	0	0	0	0	48	0	0	0	111
377	Meharry Medical C.	158	0	0	158	0	0	0	0	0	0
378	Central MI U.	156	0	42	9	50	55	0	0	0	0
379	U. Portland	154	0	0	100	43	11	0	0	0	0
380	Andrews U.	149	0	0	2	2	139	0	6	0	0
381	SUNY C. Oswego	145	0	0	0	40	57	0	48	0	0
382	CUNY John Jay C. of Criminal Justice	143	0	0	0	0	0	143	0	0	0
383	Rosalind Franklin U. of Medicine and Science	142	0	0	142	0	0	0	0	0	0
384	U. Detroit Mercy	139 e	0 e	0 e	0 e	0 e	110 e	0 e	0 e	0 e	29 e
385	Rush U.	138	0	0	138	0	0	0	0	0	0
386	Sonoma State U.	135	0	0	135	0	0	0	0	0	0
387	Pomona C.	132	0	0	0	17	21	94	0	0	0
388	Coastal Carolina U.	125	0	61	18	0	46	0	0	0	0
389	NY Institute of Technology all campuses	125	0	0	125	0	0	0	0	0	0

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
390	U. WI Stevens Point	125	104	0	0	0	21	0	0	0	0
391	Indiana U. PA all campuses	111	0	23	0	0	33	0	14	41	0
392	Wilkes U.	105	0	0	105	0	0	0	0	0	0
393	Denison U.	104	0	26	64	0	14	0	0	0	0
394	East TN State U.	104	45	0	15	0	44	0	0	0	0
395	CA State U. Monterey Bay	102	0	102	0	0	0	0	0	0	0
396	SUNY C. Geneseo	101	22	3	12	25	39	0	0	0	0
397	Northeastern OH Universities C. of Medicine	99	0	0	99	0	0	0	0	0	0
398	NY Medical C.	98	0	0	98	0	0	0	0	0	0
399	SUNY C. Cortland	97	0	17	80	0	0	0	0	0	0
400	Pittsburg State U.	96	0	0	57	0	0	0	0	0	39
401	Seattle U.	95	4	0	0	28	35	0	0	0	28
402	Willamette U.	94	0	0	73	0	21	0	0	0	0
403	U. WI Superior	93	0	0	0	93	0	0	0	0	0
404	Roanoke C.	92	0	0	0	0	92	0	0	0	0
405	TX State U. San Marcos	92	0	0	15	26	51	0	0	0	0
406	U. GU	90	0	13	0	0	0	0	12	0	65
407	CA State U. Fresno	89	0	54	0	35	0	0	0	0	0
408	CO State U. Pueblo	89	0	0	85	0	4	0	0	0	0
409	MS Valley State U.	86	86	0	0	0	0	0	0	0	0
410	U. of St. Thomas (St. Paul, MN)	84	0	0	25	0	59	0	0	0	0
411	NM Highlands U.	83	0	0	0	0	83	0	0	0	0
412	Truman State U.	82	11	0	50	0	21	0	0	0	0
413	U. Redlands	81	0	0	36	0	45	0	0	0	0
414	U. WI River Falls	80	0	0	0	0	80	0	0	0	0
415	U. Houston-Clear Lake	79	22	0	7	50	0	0	0	0	0
416	Albany Medical C.	78	0	0	78	0	0	0	0	0	0
417	Juniata C.	76	0	0	12	0	64	0	0	0	0
418	U. WI Green Bay	76	0	76	0	0	0	0	0	0	0
419	John Carroll U.	73	0	0	73	0	0	0	0	0	0
420	Iona C.	71	0	0	23	0	48	0	0	0	0
421	Black Hills State U.	67	0	41	26	0	0	0	0	0	0
422	Eastern OR U.	64	0	0	0	0	64	0	0	0	0
423	St. Mary's C. MD	64	0	0	61	0	3	0	0	0	0
424	Northern KY U.	63	0	0	28	0	35	0	0	0	0
425	Southern U. and A&M C. all campuses	63	0	0	0	0	63	0	0	0	0
426	American U.	62	0	0	3	0	0	0	59	0	0
427	Radford U.	60	0	0	0	0	0	0	60	0	0
428	SUNY C. of Optometry	59	0	0	59	0	0	0	0	0	0

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
429	Central CT State U.	58	0	0	34	0	24	0	0	0	0
430	CA State Polytechnic U. Pomona	57	0	0	4	0	0	0	0	0	53
431	VA State U.	57	0	0	57	0	0	0	0	0	0
432	Nova Southeastern U.	56	0	56	0	0	0	0	0	0	0
433	Appalachian State U.	55	0	49	0	0	6	0	0	0	0
434	FL Gulf Coast U.	55	0	0	55	0	0	0	0	0	0
435	SUNY Fredonia	55	0	0	0	0	55	0	0	0	0
436	U. CA Office of the President	52	0	0	0	0	0	0	0	52	0
437	Southeastern OK State U.	51	0	0	5	0	46	0	0	0	0
438	U. LA Monroe	51	0	0	51	0	0	0	0	0	0
439	Dillard U.	50	0	0	0	0	50	0	0	0	0
440	Pace U. all campuses	49	18	10	21	0	0	0	0	0	0
441	Providence C.	47	0	0	47	0	0	0	0	0	0
442	U. Hartford	46	0	0	0	0	46	0	0	0	0
443	Western Carolina U.	45	0	0	0	0	0	0	0	0	45
444	Fairfield U.	44	0	0	6	0	38	0	0	0	0
445	U. Puget Sound	44	0	43	1	0	0	0	0	0	0
446	WV State C.	43	0	0	43	0	0	0	0	0	0
447	Medical C. GA	41	0	0	41	0	0	0	0	0	0
448	Western IL U.	40	0	0	0	0	40	0	0	0	0
449	Eastern KY U.	37	0	2	0	0	23	12	0	0	0
450	Roger Williams U. Bristol	33	0	33	0	0	0	0	0	0	0
451	Benedict C.	32	0	0	32	0	0	0	0	0	0
452	Tuskegee U.	27	0	0	27	0	0	0	0	0	0
453	Augustana C. (Sioux Falls, SD)	26	0	0	0	0	13	0	13	0	0
454	U. Northern IA	26	16	0	0	0	0	0	10	0	0
455	Stephen F. Austin State U.	21	0	0	0	0	0	0	21	0	0
456	Elizabeth City State U.	20	0	0	20	0	0	0	0	0	0
457	SUNY C. Buffalo	14	0	14	0	0	0	0	0	0	0
458	Nicholls State U.	13	0	0	13	0	0	0	0	0	0
459	Northeastern IL U.	12	0	0	0	12	0	0	0	0	0
460	Bridgewater State C.	10	0	5	0	0	5	0	0	0	0
461	Mt. St. Mary's C. (Los Angeles, CA)	10	0	0	0	0	10	0	0	0	0
462	SUNY C. Old Westbury	10	0	0	0	10	0	0	0	0	0
463	U. of the Sciences Philadelphia	10	0	0	10	0	0	0	0	0	0
464	TX Woman's U.	9	0	0	0	0	0	0	9	0	0
465	Eastern WA U.	6	0	0	6	0	0	0	0	0	0
466	New C. FL	5	0	0	0	0	5	0	0	0	0
467	Hartwick C.	3	0	0	0	0	0	0	3	0	0

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
468	Grand Valley State U.	2	0	2	0	0	0	0	0	0	0
469	Mercer U. all campuses	2	0	0	0	0	0	0	0	0	2
470	U. IL Springfield	2	0	0	0	0	2	0	0	0	0
471	U. Central OK	1	0	0	1	0	0	0	0	0	0
	Abilene Christian U.	0	0	0	0	0	0	0	0	0	0
	Air Force Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Albany C. of Pharmacy	0	0	0	0	0	0	0	0	0	0
	Alcorn State U.	0	0	0	0	0	0	0	0	0	0
	Bluefield State C.	0	0	0	0	0	0	0	0	0	0
	Bowie State U.	0	0	0	0	0	0	0	0	0	0
	Charles R. Drew U. of Medicine and Science	0	0	0	0	0	0	0	0	0	0
	Clafin U.	0	0	0	0	0	0	0	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0	0	0
	CUNY Medgar Evers C.	0	0	0	0	0	0	0	0	0	0
	CUNY York C.	0	0	0	0	0	0	0	0	0	0
	Des Moines U. Osteopathic Medical Ctr.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Fayetteville State U.	0	0	0	0	0	0	0	0	0	0
	Fisk U.	0	0	0	0	0	0	0	0	0	0
	Ft. Lewis C.	0	0	0	0	0	0	0	0	0	0
	Ft. Valley State U.	0	0	0	0	0	0	0	0	0	0
	Gallaudet U.	0	0	0	0	0	0	0	0	0	0
	Grambling State U.	0	0	0	0	0	0	0	0	0	0
	KS State U.	0	0	0	0	0	0	0	0	0	0
	Kennesaw State U.	0	0	0	0	0	0	0	0	0	0
	KY State U.	0	0	0	0	0	0	0	0	0	0
	Kirksville C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	La Salle U.	0	0	0	0	0	0	0	0	0	0
	Langston U.	0	0	0	0	0	0	0	0	0	0
	Lewis and Clark C.	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Jefferson City, MO)	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Lincoln University, PA)	0	0	0	0	0	0	0	0	0	0
	Loma Linda U.	0	0	0	0	0	0	0	0	0	0
	Maharishi U. of Management	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	MA C. of Pharmacy and Health Sciences	0	0	0	0	0	0	0	0	0	0
	McNeese State U.	0	0	0	0	0	0	0	0	0	0
	Medical C. OH	0	0	0	0	0	0	0	0	0	0
	Midwestern U. (Chicago, IL)	0	0	0	0	0	0	0	0	0	0
	National U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	New England C. of Optometry	0	0	0	0	0	0	0	0	0	0

TABLE 76. Federally financed R&D expenditures at universities and colleges, financed by the National Science Foundation, ranked by NSF R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	NSF R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	NJ City U.	0	0	0	0	0	0	0	0	0	0
	OR Institute of Technology	0	0	0	0	0	0	0	0	0	0
	PA C. of Optometry	0	0	0	0	0	0	0	0	0	0
	Philadelphia C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Pitzer C.	0	0	0	0	0	0	0	0	0	0
	Ponce School of Medicine	0	0	0	0	0	0	0	0	0	0
	Saginaw Valley State U.	0	0	0	0	0	0	0	0	0	0
	Seton Hall U.	0	0	0	0	0	0	0	0	0	0
	Shaw U.	0	0	0	0	0	0	0	0	0	0
	Southern CT State U.	0	0	0	0	0	0	0	0	0	0
	St. Mary's U. (San Antonio, TX)	0	0	0	0	0	0	0	0	0	0
	Sul Ross State U.	0	0	0	0	0	0	0	0	0	0
	SUNY Purchase C.	0	0	0	0	0	0	0	0	0	0
	TX A&M U. Commerce	0	0	0	0	0	0	0	0	0	0
	TX Tech U. Health Science Ctr.	0	0	0	0	0	0	0	0	0	0
	Uniformed Services U. of the Health Sciences	0	0	0	0	0	0	0	0	0	0
	U.S. Coast Guard Academy	0	0	0	0	0	0	0	0	0	0
	Universidad Central del Caribe	0	0	0	0	0	0	0	0	0	0
	U. AR Pine Bluff	0	0	0	0	0	0	0	0	0	0
	U. Findlay, The	0	0	0	0	0	0	0	0	0	0
	U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	U. MD Baltimore	0	0	0	0	0	0	0	0	0	0
	U. San Diego	0	0	0	0	0	0	0	0	0	0
	U. Scranton	0	0	0	0	0	0	0	0	0	0
	U. DC	0	0	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Western U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	Wiley C.	0	0	0	0	0	0	0	0	0	0

e = estimated.

NSF = National Science Foundation.

nec = not elsewhere classified.

NOTES: Institutions that are not listed in this table did not provide federally financed R&D expenditures by federal agency. Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	760,970	2,091	44,435	631,346	2,779	7,299	358	34,613	3,999	33,920
1	CO State U.	36,192	0	20,877	12,809	25	0	0	665	0	1,816
2	U. MO-Columbia	25,355	0	242	20,811	0	0	0	4,284	0	18
3	Cornell U. all campuses	24,431	337	125	21,446	0	25	114	1,645	0	739
4	IA State U.	22,855	0	1,059	16,472	1,936	647	0	982	0	1,759
5	Purdue U. all campuses	21,917	0	102	17,426	176	74	0	1,752	0	2,387
6	U. FL	21,616	3	0	20,332	51	107	1	400	0	722
7	MI State U.	20,964	0	38	19,170	0	163	2	966	0	625
8	MS State U.	20,938	0	4	20,749	0	30	0	47	0	108
9	OR State U.	20,454	56	535	17,212	5	78	0	498	247	1,823
10	U. CA, Davis	20,195	0	225	19,258	0	105	0	369	0	238
11	U. IL Urbana-Champaign	18,886	0	2,434	14,055	0	0	137	1,515	0	745
12	U. GA	18,765	153	0	15,160	0	0	0	2,518	0	934
13	WA State U.	18,122	0	40	15,430	1	0	0	1,479	0	1,172
14	Baylor C. of Medicine	16,858	0	0	16,858	0	0	0	0	0	0
15	U. MN all campuses	16,615	0	168	15,245	0	0	0	544	0	658
16	U. WI Madison	16,252	0	146	13,334	0	0	0	2,355	0	417
17	Tufts U.	15,917	0	0	15,729	0	0	0	0	0	188
18	NC State U.	14,578	0	174	12,711	130	0	0	103	0	1,460
19	OH State U. all campuses	13,828	9	16	11,547	0	7	0	811	525	913
20	VA Polytechnic Institute and State U.	12,761	27	115	11,920	0	0	0	261	0	438
21	U. NE all campuses	11,636	632	33	10,334	0	66	0	282	27	262
22	U. ID	11,583	72	175	9,957	0	126	0	451	0	802
23	Rutgers, The State U. NJ all campuses	10,905	0	392	9,521	0	0	0	955	0	37
24	U. AR main campus	10,722	0	195	10,488	0	0	0	8	0	31
25	Auburn U. all campuses	10,572	0	62	8,899	57	80	0	441	0	1,033
26	TX A&M U. all campuses	10,555	0	124	10,248	0	0	0	0	0	183
27	U. AZ	10,433	0	255	8,998	0	0	0	795	0	385
28	U. MD College Park	9,525	0	0	8,439	0	136	0	786	0	164
29	U. HI Manoa	9,300	0	192	8,184	0	0	0	26	852	46
30	ND State U. all campuses	9,297	0	0	8,052	16	79	63	733	0	354
31	Clemson U.	9,239	0	0	7,670	0	45	0	460	98	966
32	PA State U. all campuses	9,034	0	409	8,401	0	0	0	51	23	150
33	OK State U. all campuses	8,653	0	127	7,626	0	0	0	418	128	354
34	MT State U. Bozeman	8,354	0	0	7,618	0	51	0	672	11	2
35	U. CT all campuses	8,236	0	0	7,201	0	77	0	608	0	350
36	LA State U. all campuses	8,233	0	127	7,343	0	40	0	465	0	258
37	UT State U.	7,816	0	0	6,166	17	24	0	367	1,166	76
38	NM State U. all campuses	6,792	0	0	6,635	0	99	0	0	0	58

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
39	SD State U.	6,423	0	0	4,531	0	129	0	1,484	0	279
40	WV U.	6,360	25	56	5,957	0	0	0	51	0	271
41	U. RI	6,016	0	119	5,857	0	17	16	0	7	0
42	U. CA, Riverside	5,892	0	860	4,836	2	0	0	5	0	189
43	U. KY all campuses	5,831	0	0	4,516	0	0	0	208	5	1,102
44	Alcorn State U.	5,566	0	0	5,566	0	0	0	0	0	0
45	U. MA Amherst	5,497	0	43	5,212	93	0	11	126	0	12
46	U. AK Fairbanks all campuses	5,330	0	1,823	3,202	0	0	0	3	0	302
47	U. MS all campuses	5,233	145	0	2,196	0	1,622	0	0	0	1,270
48	U. ND all campuses	5,126	0	435	2,483	0	86	0	10	0	2,112
49	U. CA, Berkeley	5,095	0	0	4,984	6	0	0	0	0	105
50	U. VT	4,705	0	0	4,579	0	0	0	0	0	126
51	FL A&M U.	4,608	0	0	4,606	0	0	0	0	0	2
52	U. MT, The	4,418	0	7	3,487	35	420	0	469	0	0
53	Tarleton State U.	4,357	0	538	3,819	0	0	0	0	0	0
54	U. ME	4,129	0	49	3,914	0	31	0	0	0	135
55	U. GU	3,875	0	0	3,817	0	0	0	0	58	0
56	NC Agricultural and Technical State U.	3,717	0	0	3,717	0	0	0	0	0	0
57	Langston U.	3,578	0	0	3,578	0	0	0	0	0	0
58	Prairie View A&M U.	3,476	0	0	3,436	0	0	0	0	0	40
59	U. NH	3,429	0	287	3,017	0	0	0	125	0	0
60	U. NV, Reno	3,409	0	87	3,220	0	5	0	61	0	36
61	U. Southern MS	3,362	126	888	1,354	0	966	0	28	0	0
62	TN State U.	3,312	0	0	3,312	0	0	0	0	0	0
63	U. TN all campuses	3,306	0	0	2,894	0	28	0	246	0	138
64	U. DE	3,247	187	28	2,969	0	0	0	29	0	34
65	KY State U.	3,148	0	0	3,148	0	0	0	0	0	0
66	Tuskegee U.	2,927	0	0	2,542	0	7	0	0	0	378
67	U. AR Pine Bluff	2,907	0	0	2,907	0	0	0	0	0	0
68	TX Tech U.	2,561	0	143	1,710	0	83	0	573	0	52
69	Ft. Valley State U.	2,558	0	0	2,558	0	0	0	0	0	0
70	U. NM all campuses	2,373	0	35	134	0	0	0	106	0	2,098
71	U. of the VI	2,275	0	0	2,275	0	0	0	0	0	0
72	U. WA	2,181	0	677	1,504	0	0	0	0	0	0
73	Southern IL U. Carbondale	2,117	0	0	1,907	0	0	0	7	203	0
74	U. Toledo	1,969	0	1,576	393	0	0	0	0	0	0
75	VA State U.	1,707	0	0	1,707	0	0	0	0	0	0
76	U. PA	1,558	0	0	1,535	0	0	0	0	23	0
77	Lincoln U. (Jefferson City, MO)	1,552	0	100	1,452	0	0	0	0	0	0

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
78	MI Technological U.	1,482	0	1,244	0	0	0	0	1	0	237
79	U. SC all campuses	1,264	120	875	226	0	0	0	19	24	0
80	U. MI all campuses	1,220	0	3	1,127	0	77	0	13	0	0
81	Yale U.	1,179	0	0	1,051	0	0	0	0	0	128
82	Northern AZ U.	1,040	0	1	1,005	0	0	0	14	0	20
83	WV State C.	1,028	0	28	1,000	0	0	0	0	0	0
84	FL State U.	1,019	36	487	471	0	0	0	25	0	0
85	AZ State U. main campus	993	0	0	761	0	215	0	1	0	16
86	U. MA Dartmouth	959	0	0	931	0	28	0	0	0	0
87	Thomas Jefferson U.	932	0	0	932	0	0	0	0	0	0
88	U. CA, Santa Cruz	882	0	236	520	0	0	0	126	0	0
89	George Mason U.	870	0	541	65	121	0	0	143	0	0
90	U. DC	801	0	0	801	0	0	0	0	0	0
91	TX A&M U. Kingsville	694	0	1	693	0	0	0	0	0	0
92	Dartmouth C.	619	0	52	306	0	0	0	0	0	261
93	Washington U. St. Louis	598	0	0	598	0	0	0	0	0	0
94	GA State U.	597	0	0	0	0	37	0	560	0	0
95	Tulane U.	532	0	0	506	0	26	0	0	0	0
96	U. CO all campuses	525	0	181	234	0	0	0	21	0	89
97	Duke U.	504	0	191	216	0	96	0	0	0	1
98	IN U. all campuses	503	0	0	460	0	13	0	30	0	0
99	U. HI Hilo	500	0	0	500	0	0	0	0	0	0
100	CA State U. Fresno	498	0	0	498	0	0	0	0	0	0
101	U. MD Biotechnology Institute	487	0	339	148	0	0	0	0	0	0
102	Marshall U.	473	0	0	473	0	0	0	0	0	0
103	Western KY U.	461	0	1	460	0	0	0	0	0	0
104	U. CA, Santa Barbara	448	131	88	177	0	0	0	52	0	0
105	Brigham Young U. all campuses	444	0	0	386	0	0	0	0	0	58
106	U. NC Chapel Hill	439	0	136	303	0	0	0	0	0	0
107	Portland State U.	432 e	0 e	330 e	24 e	0 e	0 e	0 e	78 e	0 e	0 e
108	Stephen F. Austin State U.	426	0	0	426	0	0	0	0	0	0
109	U. OK all campuses	423	0	0	394	0	29	0	0	0	0
110	NM Institute of Mining and Technology	419	0	77	0	0	0	0	0	0	342
111	U. AR for Medical Sciences	405	0	0	405	0	0	0	0	0	0
112	U. Chicago	381	0	0	164	0	0	0	217	0	0
113	Desert Research Institute	378	0	342	0	0	0	0	0	36	0
114	U. NC Wilmington	374	0	0	374	0	0	0	0	0	0
115	Boise State U.	368	0	348	20	0	0	0	0	0	0
116	Emory U.	367	0	0	283	0	84	0	0	0	0

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
117	Syracuse U. all campuses	367	0	0	0	0	0	0	0	267	100
118	C. of William and Mary all campuses	359	0	359	0	0	0	0	0	0	0
119	Rice U.	359	0	0	206	0	17	0	85	0	51
120	Vanderbilt U.	357	0	0	271	0	0	0	0	0	86
121	GA Southern U.	354	0	331	23	0	0	0	0	0	0
122	U. CA, San Diego	332	0	107	225	0	0	0	0	0	0
123	U. Akron all campuses	331	0	0	0	0	0	0	0	0	331
124	U. of Notre Dame	325	0	0	315	0	0	0	10	0	0
125	Southern U. and A&M C. all campuses	322	0	0	322	0	0	0	0	0	0
126	West TX A&M U.	314	0	49	265	0	0	0	0	0	0
127	Western IL U.	297	0	0	267	0	30	0	0	0	0
128	CA State Polytechnic U. Pomona	284	0	0	284	0	0	0	0	0	0
129	U. PR Mayaguez Campus	267	0	10	120	0	135	0	0	0	2
130	U. Northern IA	264	0	0	264	0	0	0	0	0	0
131	CA State Polytechnic U. San Luis Obispo	259	0	0	257	0	0	2	0	0	0
132	SUNY Buffalo all campuses	252	0	5	226	0	0	0	21	0	0
133	Stanford U.	250	0	0	201	0	0	0	0	0	49
134	SUNY C. Brockport	244	0	0	244	0	0	0	0	0	0
135	Baylor U.	236	0	154	0	0	42	0	40	0	0
136	U. MD Ctr. for Environmental Science	236	0	236	0	0	0	0	0	0	0
137	U. WI Stevens Point	235	0	58	177	0	0	0	0	0	0
138	U. UT	232	0	49	183	0	0	0	0	0	0
139	Northwestern U.	222	0	0	0	0	127	0	14	0	81
140	Southern CT State U.	214	0	0	0	0	214	0	0	0	0
141	Georgetown U.	209	0	0	166	0	0	0	43	0	0
142	U. South FL	208	0	72	46	0	23	0	0	0	67
143	U. AL Birmingham, The	207	0	0	207	0	0	0	0	0	0
144	Albany State U.	203	0	203	0	0	0	0	0	0	0
145	Rensselaer Polytechnic Institute	194	0	12	0	0	0	0	0	0	182
146	U. Cincinnati all campuses	193	0	0	193	0	0	0	0	0	0
147	U. West FL	180	0	175	5	0	0	0	0	0	0
148	Jackson State U.	176	0	0	0	0	13	0	0	163	0
149	U. MD Baltimore County	175	0	160	14	0	0	0	0	0	1
150	IL State U.	171	0	0	171	0	0	0	0	0	0
151	U. KS all campuses	168	0	0	168	0	0	0	0	0	0
152	OH U. all campuses	165	0	34	0	0	131	0	0	0	0
153	TX A&M U. System Health Science Ctr.	164	0	0	164	0	0	0	0	0	0
154	U. of Medicine and Dentistry NJ	160	0	0	160	0	0	0	0	0	0
155	Columbia U. in the City of NY	156	0	0	152	0	0	0	0	0	4

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Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
156	Southern OR U.	156	0	0	73	0	3	0	80	0	0
157	Drexel U.	148	0	0	129	0	0	0	0	0	19
158	U. Louisville	146	0	0	146	0	0	0	0	0	0
159	U. TX Medical Branch	146	0	0	146	0	0	0	0	0	0
160	Rochester Institute of Technology	145	0	0	0	0	110	0	0	0	35
161	U. MO-Rolla	141	0	83	58	0	0	0	0	0	0
162	U. NC Greensboro	141	0	0	114	0	0	0	27	0	0
163	U. OR	141	0	65	60	0	0	0	16	0	0
164	MT Tech of the U. MT	137	0	137	0	0	0	0	0	0	0
165	U. SD	137	0	0	47	0	0	0	90	0	0
166	C. Charleston	130	0	29	64	0	37	0	0	0	0
167	IL Institute of Technology	130	0	0	0	0	0	0	0	0	0
168	SUNY Stony Brook all campuses	128	0	0	128	0	0	0	0	0	0
169	U. North TX Health Science Ctr. Ft. Worth	127	0	0	127	0	0	0	0	0	0
170	U. AL, The	126	0	28	0	0	0	0	0	0	98
171	U. North TX	124	0	0	124	0	0	0	0	0	0
172	OR Health & Science U.	123	0	0	123	0	0	0	0	0	0
173	U. Miami	120	0	59	0	0	58	0	0	0	3
174	U. WI Milwaukee	119	0	100	0	0	0	0	15	0	4
175	Duquesne U.	116	0	0	91	0	0	0	25	0	0
176	U. IL Chicago	111	0	4	99	0	0	0	8	0	0
177	CA State U. San Bernardino	109	0	28	0	0	0	0	81	0	0
178	SUNY Albany	109	0	10	80	0	0	0	19	0	0
179	Medical U. SC	108	0	0	108	0	0	0	0	0	0
180	Murray State U.	107	0	14	93	0	0	0	0	0	0
181	U. TX Health Science Ctr. Houston	106	0	0	106	0	0	0	0	0	0
182	Case Western Reserve U.	105	0	0	105	0	0	0	0	0	0
183	Sul Ross State U.	103	0	0	103	0	0	0	0	0	0
184	George Washington U.	102	0	0	6	0	0	0	96	0	0
185	Andrews U.	100	0	0	34	66	0	0	0	0	0
186	James Madison U.	99	6	0	20	0	0	0	73	0	0
187	SD School of Mines and Technology	96	0	0	0	0	0	0	0	0	96
188	U. TX Austin	95	0	64	31	0	0	0	0	0	0
189	U. CA, Los Angeles	94	0	0	54	0	40	0	0	0	0
190	Boston U.	92	0	0	92	0	0	0	0	0	0
191	East Carolina U.	90	0	0	90	0	0	0	0	0	0
192	ID State U.	90	0	0	90	0	0	0	0	0	0
193	Rosalind Franklin U. of Medicine and Science	90	0	0	90	0	0	0	0	0	0

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(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
194	Appalachian State U.	87	0	0	59	0	0	0	28	0	0
195	U. CA, Irvine	85	0	3	82	0	0	0	0	0	0
196	U. MA Worcester	85	0	0	85	0	0	0	0	0	0
197	Marquette U.	80	0	0	80	0	0	0	0	0	0
198	Fordham U.	79	0	0	8	0	0	0	71	0	0
199	U. CA, San Francisco	78	0	0	78	0	0	0	0	0	0
200	SUNY Binghamton	77	0	20	41	0	0	0	16	0	0
201	CUNY City C.	76	0	0	0	0	76	0	0	0	0
202	U. Central FL	73	0	0	73	0	0	0	0	0	0
203	U. WI La Crosse	73	0	0	0	0	0	0	73	0	0
204	U. WI Oshkosh	72	0	0	72	0	0	0	0	0	0
205	AR State U. main campus	71	0	18	53	0	0	0	0	0	0
206	Clark Atlanta U.	71	0	0	0	0	0	0	0	71	0
207	TX A&M U. Corpus Christi	71	0	0	7	0	0	0	0	64	0
208	Western MI U.	69	0	60	0	0	0	0	0	0	9
209	CUNY Herbert H. Lehman C.	67	0	0	67	0	0	0	0	0	0
210	Harvard U.	67	0	2	65	0	0	0	0	0	0
211	Augustana C. (Sioux Falls, SD)	65	0	0	65	0	0	0	0	0	0
212	NY U.	65	0	0	65	0	0	0	0	0	0
213	NJ Institute of Technology	60	0	0	0	0	0	0	0	0	60
214	Sonoma State U.	57	0	0	57	0	0	0	0	0	0
215	St. Cloud State U.	56	0	0	2	0	0	0	54	0	0
216	Whitman C.	54	0	0	54	0	0	0	0	0	0
217	SUNY C. Geneseo	52	0	0	52	0	0	0	0	0	0
218	Ball State U.	51	0	0	0	0	0	0	51	0	0
219	U. MO-St. Louis	50	0	0	50	0	0	0	0	0	0
220	Wellesley C.	50	0	0	50	0	0	0	0	0	0
221	Xavier U. LA	50	0	0	40	0	10	0	0	0	0
222	U. TX-Pan American	48	0	0	48	0	0	0	0	0	0
223	FL Gulf Coast U.	44	0	0	44	0	0	0	0	0	0
224	VA Commonwealth U.	43	0	0	32	0	11	0	0	0	0
225	Worcester Polytechnic Institute	43	0	0	0	0	43	0	0	0	0
226	St. Louis U. all campuses	41 e	0 e	0 e	41 e	0 e	0 e	0 e	0 e	0 e	0 e
227	Western Carolina U.	41	0	0	41	0	0	0	0	0	0
228	Wesleyan U.	39	0	0	39	0	0	0	0	0	0
229	Nicholls State U.	38	0	0	22	0	16	0	0	0	0
230	U. Northern CO	38	0	0	35	0	0	0	3	0	0
231	Macalester C.	37	0	0	37	0	0	0	0	0	0
232	Towson U.	37	0	0	37	0	0	0	0	0	0

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Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
233	U. South AL	37	0	0	37	0	0	0	0	0	0
234	U. Denver	36	0	0	0	0	36	0	0	0	0
235	U. Houston-Clear Lake	36	0	0	0	36	0	0	0	0	0
236	SUNY C. Plattsburgh	35	0	0	35	0	0	0	0	0	0
237	U. TX Dallas	34	4	6	10	0	9	0	1	1	3
238	TX Woman's U.	33	0	0	33	0	0	0	0	0	0
239	U. of the Sciences Philadelphia	33	0	0	33	0	0	0	0	0	0
240	TN Technological U.	32	0	0	12	0	20	0	0	0	0
241	SUNY C. Cortland	31	0	0	31	0	0	0	0	0	0
242	Howard U.	30	0	0	30	0	0	0	0	0	0
243	CA Institute of Technology	29	0	0	0	0	0	0	0	0	29
244	U. TX Southwestern Medical Ctr. Dallas	29	0	0	29	0	0	0	0	0	0
245	Princeton U.	28	0	0	0	0	0	0	0	0	28
246	U. WI River Falls	26	0	0	26	0	0	0	0	0	0
247	Black Hills State U.	25	0	0	25	0	0	0	0	0	0
248	Wright State U. all campuses	25	0	0	18	0	7	0	0	0	0
249	Carleton C.	22	0	0	22	0	0	0	0	0	0
250	Smith C.	22	0	0	0	0	0	0	0	0	22
251	Bowling Green State U. all campuses	21	0	0	0	0	0	0	21	0	0
252	U. Memphis, The	21	0	0	21	0	0	0	0	0	0
253	Kennesaw State U.	19	0	0	19	0	0	0	0	0	0
254	Southwest MO State U.	19	0	0	0	0	16	0	0	0	3
255	Bradley U.	17	17	0	0	0	0	0	0	0	0
256	Eastern KY U.	17	0	0	17	0	0	0	0	0	0
257	Oakland U.	17	0	0	0	0	0	0	0	0	17
258	Lafayette C.	16	0	0	0	0	0	0	0	0	16
259	Central MI U.	15	0	0	15	0	0	0	0	0	0
260	DePaul U.	15	0	15	0	0	0	0	0	0	0
261	East TN State U.	15	0	0	15	0	0	0	0	0	0
262	Grand Valley State U.	15	0	7	8	0	0	0	0	0	0
263	FL Atlantic U.	13	0	0	13	0	0	0	0	0	0
264	U. Dayton	13	0	0	13	0	0	0	0	0	0
265	U. NC Asheville	13	0	7	6	0	0	0	0	0	0
266	U. LA Lafayette	12	0	0	12	0	0	0	0	0	0
267	U. Richmond	12	0	0	12	0	0	0	0	0	0
268	U. WI Parkside	12	0	0	12	0	0	0	0	0	0
269	Western WA U.	12	0	0	0	0	0	12	0	0	0
270	Cleveland State U.	11	0	8	0	0	0	0	0	0	3
271	Ft. Lewis C.	11	0	0	11	0	0	0	0	0	0

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Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
272	Southern Methodist U.	11	0	11	0	0	0	0	0	0	0
273	FL Institute of Technology	10	0	0	0	0	0	0	0	0	10
274	Roanoke C.	10	0	0	10	0	0	0	0	0	0
275	U. MA Boston	10	0	0	10	0	0	0	0	0	0
276	Western U. of Health Sciences	10	0	0	10	0	0	0	0	0	0
277	CUNY C. Staten Island	9	0	0	0	0	9	0	0	0	0
278	Medical C. GA	9	0	0	9	0	0	0	0	0	0
279	Southern IL U. Edwardsville	9	0	0	9	0	0	0	0	0	0
280	Ithaca C.	8	0	0	8	0	0	0	0	0	0
281	Coastal Carolina U.	7	0	0	7	0	0	0	0	0	0
282	San Diego State U.	7	0	0	0	0	0	0	7	0	0
283	TX State U. San Marcos	7	0	0	7	0	0	0	0	0	0
284	Bowdoin C.	6	0	0	6	0	0	0	0	0	0
285	CA State U. Long Beach	6	0	0	6	0	0	0	0	0	0
286	Uniformed Services U. of the Health Sciences	6	0	0	6	0	0	0	0	0	0
287	U. of St. Thomas (St. Paul, MN)	6	0	0	0	0	6	0	0	0	0
288	Valparaiso U.	6	0	0	0	6	0	0	0	0	0
289	Bowie State U.	5	5	0	0	0	0	0	0	0	0
290	Northeastern IL U.	5	0	0	5	0	0	0	0	0	0
291	GA Institute of Technology all campuses	3	0	0	0	0	0	0	0	0	3
292	U. AL Huntsville, The	3	0	0	0	0	0	0	0	0	3
293	West Chester U. PA	3	0	0	3	0	0	0	0	0	0
294	Mercer U. all campuses	2	0	0	0	0	2	0	0	0	0
295	Radford U.	2	0	0	0	0	0	0	2	0	0
296	TX Christian U.	2	0	0	2	0	0	0	0	0	0
297	Truman State U.	2	0	0	2	0	0	0	0	0	0
298	CO School of Mines	1	0	0	0	0	0	0	0	0	1
	Abilene Christian U.	0	0	0	0	0	0	0	0	0	0
	Air Force Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Albany C. of Pharmacy	0	0	0	0	0	0	0	0	0	0
	Albany Medical C.	0	0	0	0	0	0	0	0	0	0
	Alfred U. all campuses	0	0	0	0	0	0	0	0	0	0
	Allegheny C.	0	0	0	0	0	0	0	0	0	0
	American U.	0	0	0	0	0	0	0	0	0	0
	Amherst C.	0	0	0	0	0	0	0	0	0	0
	Augsburg C.	0	0	0	0	0	0	0	0	0	0
	Augustana C. (Rock Island, IL)	0	0	0	0	0	0	0	0	0	0
	Barnard C.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Bates C.	0	0	0	0	0	0	0	0	0	0

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
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Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Benedict C.	0	0	0	0	0	0	0	0	0	0
	Bethune-Cookman C.	0	0	0	0	0	0	0	0	0	0
	Bluefield State C.	0	0	0	0	0	0	0	0	0	0
	Brandeis U.	0	0	0	0	0	0	0	0	0	0
	Bridgewater State C.	0	0	0	0	0	0	0	0	0	0
	Brown U.	0	0	0	0	0	0	0	0	0	0
	Bryn Mawr C.	0	0	0	0	0	0	0	0	0	0
	Bucknell U.	0	0	0	0	0	0	0	0	0	0
	CA State U. Dominguez Hills	0	0	0	0	0	0	0	0	0	0
	CA State U. Fullerton	0	0	0	0	0	0	0	0	0	0
	CA State U. Los Angeles	0	0	0	0	0	0	0	0	0	0
	CA State U. Monterey Bay	0	0	0	0	0	0	0	0	0	0
	CA State U. Northridge	0	0	0	0	0	0	0	0	0	0
	Calvin C.	0	0	0	0	0	0	0	0	0	0
	Carnegie Mellon U.	0	0	0	0	0	0	0	0	0	0
	Catholic U. America, The	0	0	0	0	0	0	0	0	0	0
	Central CT State U.	0	0	0	0	0	0	0	0	0	0
	Central WA U.	0	0	0	0	0	0	0	0	0	0
	Chapman U.	0	0	0	0	0	0	0	0	0	0
	Charles R. Drew U. of Medicine and Science	0	0	0	0	0	0	0	0	0	0
	Christopher Newport U.	0	0	0	0	0	0	0	0	0	0
	Clafin U.	0	0	0	0	0	0	0	0	0	0
	Claremont Graduate U.	0	0	0	0	0	0	0	0	0	0
	Clark U.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Clarkson U.	0	0	0	0	0	0	0	0	0	0
	Colby C.	0	0	0	0	0	0	0	0	0	0
	Colgate U.	0	0	0	0	0	0	0	0	0	0
	C. of the Holy Cross	0	0	0	0	0	0	0	0	0	0
	C. Wooster	0	0	0	0	0	0	0	0	0	0
	CO State U. Pueblo	0	0	0	0	0	0	0	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0	0	0
	CUNY Baruch C.	0	0	0	0	0	0	0	0	0	0
	CUNY Brooklyn C.	0	0	0	0	0	0	0	0	0	0
	CUNY Graduate Ctr.	0	0	0	0	0	0	0	0	0	0
	CUNY Hunter C.	0	0	0	0	0	0	0	0	0	0
	CUNY John Jay C. of Criminal Justice	0	0	0	0	0	0	0	0	0	0
	CUNY Medgar Evers C.	0	0	0	0	0	0	0	0	0	0
	CUNY Queens C.	0	0	0	0	0	0	0	0	0	0
	CUNY York C.	0	0	0	0	0	0	0	0	0	0
	Denison U.	0	0	0	0	0	0	0	0	0	0

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Des Moines U. Osteopathic Medical Ctr.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Dickinson C.	0	0	0	0	0	0	0	0	0	0
	Dillard U.	0	0	0	0	0	0	0	0	0	0
	Drake U.	0	0	0	0	0	0	0	0	0	0
	Eastern MI U.	0	0	0	0	0	0	0	0	0	0
	Eastern OR U.	0	0	0	0	0	0	0	0	0	0
	Eastern WA U.	0	0	0	0	0	0	0	0	0	0
	Elizabeth City State U.	0	0	0	0	0	0	0	0	0	0
	Embry-Riddle Aeronautical U.	0	0	0	0	0	0	0	0	0	0
	Evergreen State C.	0	0	0	0	0	0	0	0	0	0
	Fairfield U.	0	0	0	0	0	0	0	0	0	0
	Fayetteville State U.	0	0	0	0	0	0	0	0	0	0
	Fisk U.	0	0	0	0	0	0	0	0	0	0
	Franklin & Marshall C.	0	0	0	0	0	0	0	0	0	0
	Furman U.	0	0	0	0	0	0	0	0	0	0
	Gallaudet U.	0	0	0	0	0	0	0	0	0	0
	Grambling State U.	0	0	0	0	0	0	0	0	0	0
	Grinnell C.	0	0	0	0	0	0	0	0	0	0
	Gustavus Adolphus C.	0	0	0	0	0	0	0	0	0	0
	Hamilton C. (Clinton, NY)	0	0	0	0	0	0	0	0	0	0
	Hampshire C.	0	0	0	0	0	0	0	0	0	0
	Hampton U.	0	0	0	0	0	0	0	0	0	0
	Hartwick C.	0	0	0	0	0	0	0	0	0	0
	Hendrix C.	0	0	0	0	0	0	0	0	0	0
	Hope C.	0	0	0	0	0	0	0	0	0	0
	IN State U. all campuses	0	0	0	0	0	0	0	0	0	0
	Indiana U. PA all campuses	0	0	0	0	0	0	0	0	0	0
	Iona C.	0	0	0	0	0	0	0	0	0	0
	Jarvis Christian C.	0	0	0	0	0	0	0	0	0	0
	John Carroll U.	0	0	0	0	0	0	0	0	0	0
	Juniata C.	0	0	0	0	0	0	0	0	0	0
	Kalamazoo C.	0	0	0	0	0	0	0	0	0	0
	KS State U.	0	0	0	0	0	0	0	0	0	0
	Kent State U. all campuses	0	0	0	0	0	0	0	0	0	0
	Kettering U.	0	0	0	0	0	0	0	0	0	0
	Kirksville C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	La Salle U.	0	0	0	0	0	0	0	0	0	0
	Lake Forest C.	0	0	0	0	0	0	0	0	0	0
	Lamar U.	0	0	0	0	0	0	0	0	0	0

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Lawrence Technological U.	0	0	0	0	0	0	0	0	0	0
	Lehigh U.	0	0	0	0	0	0	0	0	0	0
	Lewis and Clark C.	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Lincoln University, PA)	0	0	0	0	0	0	0	0	0	0
	Loma Linda U.	0	0	0	0	0	0	0	0	0	0
	Loyola Marymount U.	0	0	0	0	0	0	0	0	0	0
	Loyola U. Chicago	0	0	0	0	0	0	0	0	0	0
	Maharishi U. of Management	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	MA C. of Pharmacy and Health Sciences	0	0	0	0	0	0	0	0	0	0
	MA Institute of Technology	0	0	0	0	0	0	0	0	0	0
	McNeese State U.	0	0	0	0	0	0	0	0	0	0
	Medical C. OH	0	0	0	0	0	0	0	0	0	0
	Medical C. WI	0	0	0	0	0	0	0	0	0	0
	Meharry Medical C.	0	0	0	0	0	0	0	0	0	0
	Middle TN State U.	0	0	0	0	0	0	0	0	0	0
	Midwestern U. (Chicago, IL)	0	0	0	0	0	0	0	0	0	0
	Milwaukee School of Engineering	0	0	0	0	0	0	0	0	0	0
	MS Valley State U.	0	0	0	0	0	0	0	0	0	0
	Morehead State U.	0	0	0	0	0	0	0	0	0	0
	Morehouse School of Medicine	0	0	0	0	0	0	0	0	0	0
	Morgan State U.	0	0	0	0	0	0	0	0	0	0
	Mt. Holyoke C.	0	0	0	0	0	0	0	0	0	0
	Mt. Sinai School of Medicine	0	0	0	0	0	0	0	0	0	0
	Mt. St. Mary's C. (Los Angeles, CA)	0	0	0	0	0	0	0	0	0	0
	National U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	New C. FL	0	0	0	0	0	0	0	0	0	0
	New England C. of Optometry	0	0	0	0	0	0	0	0	0	0
	NJ City U.	0	0	0	0	0	0	0	0	0	0
	NM Highlands U.	0	0	0	0	0	0	0	0	0	0
	NY Institute of Technology all campuses	0	0	0	0	0	0	0	0	0	0
	NY Medical C.	0	0	0	0	0	0	0	0	0	0
	Norfolk State U.	0	0	0	0	0	0	0	0	0	0
	Northeastern OH Universities C. of Medicine	0	0	0	0	0	0	0	0	0	0
	Northeastern U.	0	0	0	0	0	0	0	0	0	0
	Northern IL U.	0	0	0	0	0	0	0	0	0	0
	Northern KY U.	0	0	0	0	0	0	0	0	0	0
	Nova Southeastern U.	0	0	0	0	0	0	0	0	0	0
	Oberlin C.	0	0	0	0	0	0	0	0	0	0
	Old Dominion U.	0	0	0	0	0	0	0	0	0	0

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	OR Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Pace U. all campuses	0	0	0	0	0	0	0	0	0	0
	PA C. of Optometry	0	0	0	0	0	0	0	0	0	0
	Philadelphia C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Pittsburg State U.	0	0	0	0	0	0	0	0	0	0
	Pitzer C.	0	0	0	0	0	0	0	0	0	0
	Polytechnic U.	0	0	0	0	0	0	0	0	0	0
	Pomona C.	0	0	0	0	0	0	0	0	0	0
	Ponce School of Medicine	0	0	0	0	0	0	0	0	0	0
	Providence C.	0	0	0	0	0	0	0	0	0	0
	Reed C.	0	0	0	0	0	0	0	0	0	0
	Rider U.	0	0	0	0	0	0	0	0	0	0
	Rockefeller U.	0	0	0	0	0	0	0	0	0	0
	Roger Williams U. Bristol	0	0	0	0	0	0	0	0	0	0
	Rose-Hulman Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Rowan U.	0	0	0	0	0	0	0	0	0	0
	Rush U.	0	0	0	0	0	0	0	0	0	0
	Saginaw Valley State U.	0	0	0	0	0	0	0	0	0	0
	San Jose State U.	0	0	0	0	0	0	0	0	0	0
	Savannah State U.	0	0	0	0	0	0	0	0	0	0
	Seattle U.	0	0	0	0	0	0	0	0	0	0
	Seton Hall U.	0	0	0	0	0	0	0	0	0	0
	Shaw U.	0	0	0	0	0	0	0	0	0	0
	Simmons C.	0	0	0	0	0	0	0	0	0	0
	Skidmore C.	0	0	0	0	0	0	0	0	0	0
	Southeastern LA U.	0	0	0	0	0	0	0	0	0	0
	Southeastern OK State U.	0	0	0	0	0	0	0	0	0	0
	Southern U. New Orleans	0	0	0	0	0	0	0	0	0	0
	Spelman C.	0	0	0	0	0	0	0	0	0	0
	St. Joseph's U.	0	0	0	0	0	0	0	0	0	0
	St. Mary's C. MD	0	0	0	0	0	0	0	0	0	0
	St. Mary's U. (San Antonio, TX)	0	0	0	0	0	0	0	0	0	0
	St. Olaf C.	0	0	0	0	0	0	0	0	0	0
	State U. West GA	0	0	0	0	0	0	0	0	0	0
	Stevens Institute of Technology	0	0	0	0	0	0	0	0	0	0
	SUNY C. Buffalo	0	0	0	0	0	0	0	0	0	0
	SUNY C. of Optometry	0	0	0	0	0	0	0	0	0	0
	SUNY C. Old Westbury	0	0	0	0	0	0	0	0	0	0
	SUNY C. Oswego	0	0	0	0	0	0	0	0	0	0

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	SUNY Fredonia	0	0	0	0	0	0	0	0	0	0
	SUNY Purchase C.	0	0	0	0	0	0	0	0	0	0
	SUNY Upstate Medical U.	0	0	0	0	0	0	0	0	0	0
	Swarthmore C.	0	0	0	0	0	0	0	0	0	0
	Teachers C. Columbia U.	0	0	0	0	0	0	0	0	0	0
	Temple U.	0	0	0	0	0	0	0	0	0	0
	TX A&M U. Commerce	0	0	0	0	0	0	0	0	0	0
	TX Tech U. Health Science Ctr.	0	0	0	0	0	0	0	0	0	0
	Trinity C. (Hartford, CT)	0	0	0	0	0	0	0	0	0	0
	Trinity U.	0	0	0	0	0	0	0	0	0	0
	Union C. (Schenectady, NY)	0	0	0	0	0	0	0	0	0	0
	U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
	U.S. Coast Guard Academy	0	0	0	0	0	0	0	0	0	0
	U.S. Naval Academy	0	0	0	0	0	0	0	0	0	0
	Universidad Central del Caribe	0	0	0	0	0	0	0	0	0	0
	U. AR Little Rock	0	0	0	0	0	0	0	0	0	0
	U. CA Office of the President	0	0	0	0	0	0	0	0	0	0
	U. Central OK	0	0	0	0	0	0	0	0	0	0
	U. Detroit Mercy	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	U. Findlay, The	0	0	0	0	0	0	0	0	0	0
	U. Hartford	0	0	0	0	0	0	0	0	0	0
	U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	U. Houston	0	0	0	0	0	0	0	0	0	0
	U. Houston-Downtown	0	0	0	0	0	0	0	0	0	0
	U. IL Springfield	0	0	0	0	0	0	0	0	0	0
	U. IA	0	0	0	0	0	0	0	0	0	0
	U. LA Monroe	0	0	0	0	0	0	0	0	0	0
	U. MD Baltimore	0	0	0	0	0	0	0	0	0	0
	U. MA Lowell	0	0	0	0	0	0	0	0	0	0
	U. MO-Kansas City	0	0	0	0	0	0	0	0	0	0
	U. NC Charlotte	0	0	0	0	0	0	0	0	0	0
	U. North FL	0	0	0	0	0	0	0	0	0	0
	U. Pittsburgh all campuses	0	0	0	0	0	0	0	0	0	0
	U. Portland	0	0	0	0	0	0	0	0	0	0
	U. PR Humacao U. C.	0	0	0	0	0	0	0	0	0	0
	U. PR Rio Piedras Campus	0	0	0	0	0	0	0	0	0	0
	U. Puget Sound	0	0	0	0	0	0	0	0	0	0
	U. Redlands	0	0	0	0	0	0	0	0	0	0
	U. Rochester	0	0	0	0	0	0	0	0	0	0

TABLE 77. Federally financed R&D expenditures at universities and colleges, financed by the U.S. Department of Agriculture, ranked by USDA R&D expenditures, by science and engineering field: FY 2004
(Dollars in thousands)

Rank	Institution	USDA R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	U. San Diego	0	0	0	0	0	0	0	0	0	0
	U. San Francisco	0	0	0	0	0	0	0	0	0	0
	U. Scranton	0	0	0	0	0	0	0	0	0	0
	U. Southern CA	0	0	0	0	0	0	0	0	0	0
	U. TX Arlington	0	0	0	0	0	0	0	0	0	0
	U. TX El Paso	0	0	0	0	0	0	0	0	0	0
	U. TX Health Science Ctr. San Antonio	0	0	0	0	0	0	0	0	0	0
	U. TX M. D. Anderson Cancer Ctr.	0	0	0	0	0	0	0	0	0	0
	U. TX San Antonio	0	0	0	0	0	0	0	0	0	0
	U. of the Pacific	0	0	0	0	0	0	0	0	0	0
	U. Tulsa	0	0	0	0	0	0	0	0	0	0
	U. VA all campuses	0	0	0	0	0	0	0	0	0	0
	U. WI Eau Claire	0	0	0	0	0	0	0	0	0	0
	U. WI Green Bay	0	0	0	0	0	0	0	0	0	0
	U. WI Stout	0	0	0	0	0	0	0	0	0	0
	U. WI Superior	0	0	0	0	0	0	0	0	0	0
	U. WI Whitewater	0	0	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0	0	0
	Wabash C.	0	0	0	0	0	0	0	0	0	0
	Wake Forest U.	0	0	0	0	0	0	0	0	0	0
	Wayne State U.	0	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Wichita State U.	0	0	0	0	0	0	0	0	0	0
	Wiley C.	0	0	0	0	0	0	0	0	0	0
	Wilkes U.	0	0	0	0	0	0	0	0	0	0
	Willamette U.	0	0	0	0	0	0	0	0	0	0
	Woods Hole Oceanographic Institution	0	0	0	0	0	0	0	0	0	0
	Yeshiva U.	0	0	0	0	0	0	0	0	0	0
	Youngstown State U.	0	0	0	0	0	0	0	0	0	0

e = estimated.

USDA = U.S. Department of Agriculture.

nec = not elsewhere classified.

NOTES: Institutions that are not listed in this table did not provide federally financed R&D expenditures by federal agency. Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	All institutions	3,144,862	119,049	474,230	1,346,985	24,625	207,657	56,106	232,532	70,053	612,980
1	U. WA	519,205	392	38,756	407,680	473	11,592	7,992	22,458	0	29,862
2	U. CO all campuses	95,320	2,175	43,011	24,569	337	11,991	906	3,428	327	8,576
3	CA Institute of Technology	90,481	9,257	4,479	6,427	117	50,639	0	199	1,464	17,899
4	Columbia U. in the City of NY	63,215	821	20,423	27,700	58	6,656	133	298	0	7,126
5	KS State U.	56,088	2,693	280	33,245	437	9,361	276	1,382	285	8,129
6	OH State U. all campuses	53,112	584	1,447	21,840	55	284	0	17,685	125	11,092
7	U. TX Austin	52,472	4,309	2,635	2,712	6,625	8,020	949	2,661	2,783	21,778
8	Harvard U.	51,968	120	3,494	36,545	127	3,984	282	4,812	0	2,604
9	U. South FL	50,480	0	6,638	34,962	39	133	163	739	284	7,522
10	U. Southern CA	46,683	14,166	3,608	15,938	1,626	956	189	1,333	59	8,808
11	Case Western Reserve U.	46,469	0	352	20,668	146	4,591	632	1,192	0	18,888
12	U. Pittsburgh all campuses	44,555	914	78	32,588	242	2,074	1,050	550	4,220	2,839
13	PA State U. all campuses	43,984	1,342	5,855	10,729	275	3,427	3,394	2,209	2	16,751
14	U. MD College Park	42,003	2,597	2,756	3,358	414	4,787	250	15,926	0	11,915
15	U. NC Chapel Hill	40,117	1,358	5,224	27,611	698	1,901	146	3,179	0	0
16	U. NH	39,782	0	23,512	3,151	0	13	120	2,061	0	10,925
17	U. HI Manoa	39,680	0	16,923	6,417	0	128	0	4,125	11,278	809
18	U. AZ	39,651	373	2,714	17,916	0	2,930	971	2,639	0	12,108
19	U. KY all campuses	38,253	574	1,405	19,652	57	1,479	214	1,437	850	12,585
20	Northwestern U.	35,136	543	384	21,274	0	2,055	331	1,146	53	9,350
21	NC State U.	32,227	799	3,296	11,524	864	1,561	0	906	862	12,415
22	VA Polytechnic Institute and State U.	29,756	837	555	10,909	194	1,420	313	822	0	14,706
23	U. WI Madison	28,275	0	4,001	13,017	0	41	180	4,137	0	6,899
24	Clemson U.	27,386	38	0	5,998	0	915	234	3,491	163	16,547
25	Tulane U.	26,962	0	251	20,779	127	634	0	2,376	0	2,795
26	U. IL Chicago	25,406	1,638	732	16,236	362	1,789	950	1,624	741	1,334
27	U. DE	25,156	800	3,907	2,223	30	2,631	814	3,483	0	11,268
28	Woods Hole Oceanographic Institution	24,653	0	20,747	0	0	0	0	0	0	3,906
29	U. AK Fairbanks all campuses	24,595	10,308	12,231	1,074	0	19	0	242	0	721
30	U. CA, San Diego	24,082	155	17,875	2,893	0	467	227	421	0	2,044
31	CO State U.	23,747	1	13,632	4,432	867	74	214	728	0	3,799
32	Mt. Sinai School of Medicine	22,873	0	0	22,873	0	0	0	0	0	0
33	U. MI all campuses	22,457	203	2,037	2,383	26	254	0	4,797	31	12,726
34	SUNY Upstate Medical U.	22,444	0	0	22,444	0	0	0	0	0	0
35	TX A&M U. all campuses	22,289	3	9,853	2,558	115	286	166	871	0	8,437
36	Dartmouth C.	22,069	1,490	38	3,193	0	83	0	190	8,343	8,732
37	U. CA, Berkeley	21,207	950	1,044	4,994	18	4,188	734	1,311	100	7,868
38	U. FL	20,295	319	890	11,252	221	878	333	859	0	5,543

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
39	U. CA, Davis	20,234	0	1,948	10,467	104	4,883	0	362	842	1,628
40	MI State U.	19,841	0	34	10,111	0	82	0	8,462	0	1,152
41	GA Institute of Technology all campuses	19,835	3,972	956	194	36	410	21	195	0	14,051
42	FL State U.	19,710	562	2,947	2,318	0	9	1,446	3,918	0	8,510
43	OR State U.	19,641	78	7,768	7,310	830	143	60	279	238	2,935
44	Syracuse U. all campuses	18,831	2,219	160	1,026	0	409	25	6,470	5,992	2,530
45	U. MA Worcester	18,814	0	0	18,814	0	0	0	0	0	0
46	U. PA	18,547	747	25	7,994	24	205	15	6,190	938	2,409
47	U. VA all campuses	18,132	1,394	950	6,146	22	1,018	1,315	34	599	6,654
48	NJ Institute of Technology	18,048	28	0	0	0	258	0	0	4,348	13,414
49	U. IL Urbana-Champaign	17,121	1,230	5,817	4,209	26	345	96	1,789	790	2,819
50	NM State U. all campuses	17,083	1,180	13	3,116	16	2,333	850	1,437	111	8,027
51	SUNY Stony Brook all campuses	16,519	511	5,234	6,169	102	1,977	221	310	0	1,995
52	U. South AL	15,538	0	1,393	12,801	0	35	281	570	0	458
53	U. CA, Los Angeles	15,291	211	3,258	6,980	0	1,075	283	2,609	4	871
54	U. TX Southwestern Medical Ctr. Dallas	14,587	0	0	14,587	0	0	0	0	0	0
55	Carnegie Mellon U.	14,344	9,230	167	32	0	205	360	521	22	3,807
56	U. CT all campuses	14,077	141	4,183	3,382	0	148	3,381	1,182	0	1,660
57	U. NE all campuses	13,876	651	503	7,745	4	71	1,666	1,119	165	1,952
58	Stanford U.	13,642	3,053	686	4,907	130	784	278	721	0	3,083
59	IA State U.	13,564	82	296	4,621	100	24	0	603	0	7,838
60	U. MD Baltimore	13,469	0	0	13,469	0	0	0	0	0	0
61	WA State U.	13,467	0	470	5,949	48	1,151	172	1,034	1,741	2,902
62	U. UT	13,060	1,771	1,471	3,982	0	854	37	0	0	4,945
63	LA State U. all campuses	13,041	23	6,650	1,420	0	1,345	0	827	0	2,776
64	George Washington U.	12,900	694	9	807	65	178	0	3,534	0	7,613
65	U. MN all campuses	12,609	249	2,563	3,034	70	3,046	77	1,066	0	2,504
66	MA Institute of Technology	12,561	2,329	1,131	34	1	169	79	97	0	8,721
67	U. RI	12,459	0	7,753	1,546	0	357	33	59	1,070	1,641
68	U. GA	12,235	3	1,821	7,070	145	746	2,195	122	0	133
69	SUNY Buffalo all campuses	12,186	3,124	0	3,735	0	0	122	56	224	4,925
70	U. Miami	11,976	0	10,306	1,043	0	56	0	419	0	152
71	Cornell U. all campuses	11,703	1,068	761	5,744	4	31	28	1,120	0	2,947
72	U. TX M. D. Anderson Cancer Ctr.	11,633	0	0	10,754	399	339	98	43	0	0
73	U. OK all campuses	11,404	35	7,076	1,841	0	120	177	98	0	2,057
74	Purdue U. all campuses	11,148	68	1,689	3,681	80	24	197	1,158	17	4,234
75	OH U. all campuses	11,073	39	42	353	0	1,339	0	289	0	9,011
76	Rice U.	11,002	3,739	258	519	1,308	2,575	60	55	0	2,488
77	U. SC all campuses	10,957	181	6,115	1,034	11	1,528	13	913	12	1,150

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
78	UT State U.	10,874	492	987	6,728	88	673	383	448	53	1,022
79	Medical U. SC	10,693	0	0	10,693	0	0	0	0	0	0
80	U. Cincinnati all campuses	10,549	0	3	6,520	0	115	81	421	0	3,409
81	MT State U. Bozeman	10,332	3	488	3,268	40	44	0	942	1,612	3,935
82	U. MD Ctr. for Environmental Science	10,269	0	10,269	0	0	0	0	0	0	0
83	U. AL Birmingham, The	10,106	0	0	8,155	113	0	19	167	0	1,652
84	WV U.	10,031	0	721	3,028	0	367	0	377	0	5,538
85	MS State U.	9,881	198	600	4,497	22	351	119	457	617	3,020
86	C. of William and Mary all campuses	9,861	7	9,338	207	0	1	0	308	0	0
87	U. ME	9,806	0	2,628	3,840	0	604	138	1,413	0	1,183
88	U. IA	8,818	0	378	2,827	10	1,601	0	414	3	3,585
89	SUNY Albany	8,805	1,303	1,381	4,906	0	0	0	1,215	0	0
90	U. Southern MS	8,793	5	6,773	648	0	219	83	1,045	20	0
91	U. KS all campuses	8,687	143	648	4,425	13	185	0	1,902	30	1,341
92	Boston U.	8,260	0	531	6,106	48	0	0	9	1,521	45
93	Auburn U. all campuses	8,234	0	262	2,380	0	12	291	134	5	5,150
94	U. TN all campuses	8,020	0	614	2,181	0	232	0	347	595	4,051
95	U. ID	7,986	63	1,127	4,444	0	1	0	244	0	2,107
96	MI Technological U.	7,872	20	1,873	212	33	432	0	25	39	5,238
97	Drexel U.	7,616	171	0	4,843	0	351	138	0	0	2,113
98	Wichita State U.	7,172	0	16	180	0	0	39	243	0	6,694
99	ND State U. all campuses	7,168	1,028	87	455	0	47	0	5,383	62	106
100	OR Health & Science U.	7,083	1,771	0	5,261	0	0	51	0	0	0
101	U. CA, San Francisco	6,942	0	0	6,574	0	368	0	0	0	0
102	George Mason U.	6,797	466	387	33	170	38	512	4,462	0	729
103	U. AL Huntsville, The	6,728	789	1,297	174	6	1,390	10	212	1	2,849
104	Howard U.	6,724	125	0	95	0	3,206	2,367	199	66	666
105	Desert Research Institute	6,421	0	6,094	0	0	0	0	0	327	0
106	VA Commonwealth U.	6,285	0	301	4,848	0	57	25	589	0	465
107	U. CA, Santa Cruz	6,212	234	5,028	234	0	99	1	114	0	502
108	GA State U.	6,042	306	13	799	19	946	1,543	2,416	0	0
109	Jackson State U.	5,977	491	2,000	354	1,087	189	60	312	1,312	172
110	Marshall U.	5,940	0	0	2,475	0	0	0	0	0	3,465
111	U. NC Wilmington	5,878	0	4,940	735	0	169	0	34	0	0
112	OK State U. all campuses	5,815	75	284	2,314	18	580	0	1,445	153	946
113	Duke U.	5,788	0	1,685	3,458	0	0	0	217	0	428
114	U. AR main campus	5,694	0	805	1,734	0	237	0	786	0	2,132
115	Vanderbilt U.	5,441	0	9	3,404	0	222	311	371	133	991
116	Northern AZ U.	5,325	0	569	4,385	0	0	0	366	5	0

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
117	U. CA, Santa Barbara	5,232	181	1,986	54	9	113	1	1,557	228	1,103
118	Rutgers, The State U. NJ all campuses	5,122	0	3,443	320	66	248	0	833	0	212
119	AZ State U. main campus	5,025	223	12	2,500	0	12	585	405	13	1,275
120	Washington U. St. Louis	4,677	0	0	714	0	0	605	103	0	3,255
121	U. MO-Rolla	4,673	51	516	92	0	136	0	0	0	3,878
122	U. MS all campuses	4,667	0	0	3,031	0	0	0	10	62	1,564
123	Wayne State U.	4,658	0	36	2,494	66	250	117	459	0	1,236
124	U. Central FL	4,646	0	4	1,320	0	1,615	523	439	20	725
125	U. CA, Riverside	4,597	25	509	1,328	0	181	0	1,804	6	744
126	FL A&M U.	4,589	350	2,281	439	15	639	0	0	0	865
127	U. LA Lafayette	4,565	249	2	1,434	43	35	0	189	2,287	326
128	U. MO-Columbia	4,556	158	45	1,772	1	59	683	579	0	1,259
129	NY U.	4,546	737	83	1,147	537	590	663	582	207	0
130	U. MT, The	4,325	119	234	3,481	0	15	0	476	0	0
131	U. NM all campuses	4,301	70	352	1,614	1	191	408	461	131	1,073
132	Rensselaer Polytechnic Institute	4,295	69	743	4	4	300	0	178	0	2,997
133	Princeton U.	4,263	232	3,241	27	9	22	259	10	0	463
134	Brandeis U.	4,183	0	0	0	0	146	79	3,958	0	0
135	TX Tech U.	4,125	13	450	646	0	235	243	619	0	1,919
136	U. TX Health Science Ctr. Houston	4,121	0	0	4,121	0	0	0	0	0	0
137	Northeastern U.	4,071	333	0	623	35	870	545	444	0	1,221
138	U. NV, Reno	4,070	125	936	2,133	0	310	137	112	0	317
139	Northern IL U.	3,789	59	55	1,058	13	2,225	379	0	0	0
140	U. Louisville	3,782	0	0	2,717	0	0	33	611	0	421
141	Portland State U.	3,770 e	0 e	635 e	358 e	0 e	107 e	27 e	2,403 e	0 e	240 e
142	Emory U.	3,749	0	0	3,738	0	0	0	11	0	0
143	CA State U. San Bernardino	3,682	0	378	0	0	0	0	131	3,173	0
144	U. of Medicine and Dentistry NJ	3,658	0	0	3,658	0	0	0	0	0	0
145	SD State U.	3,219	36	198	2,139	0	66	0	246	150	384
146	San Jose State U.	3,187	0	2,983	10	0	39	0	0	0	155
147	TX State U. San Marcos	3,092	0	76	470	48	1,902	0	75	521	0
148	CUNY City C.	3,029	0	0	0	0	0	61	21	0	2,947
149	Tufts U.	2,883	0	0	1,411	132	197	0	177	0	966
150	SUNY Binghamton	2,858	19	56	77	0	690	108	1,457	0	451
151	U. Tulsa	2,851	432	43	59	0	255	20	0	0	2,042
152	U. MA Dartmouth	2,850	0	1,187	270	244	34	0	66	27	1,022
153	U. HI Hilo	2,833	0	573	1,922	0	0	338	0	0	0
154	U. MA Lowell	2,833	33	0	259	0	107	66	1,348	179	841
155	U. Chicago	2,829	0	56	636	1,620	429	0	88	0	0

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
156	U. Rochester	2,825	7	0	2,493	0	324	0	0	0	1
157	U. WI Milwaukee	2,812	0	615	604	25	33	0	1,249	0	286
158	IN U. all campuses	2,787	131	469	199	0	45	42	1,776	125	0
159	U. Memphis, The	2,778	0	821	97	0	0	1,091	611	0	158
160	U. ND all campuses	2,770	0	917	135	0	46	0	0	111	1,561
161	Temple U.	2,726	0	15	273	0	120	1,550	687	0	81
162	U. TX Arlington	2,710	0	13	74	41	449	0	425	0	1,708
163	U. of Notre Dame	2,688	715	0	690	20	31	9	820	28	375
164	U. Houston	2,436	153	1,925	1	0	0	0	4	0	353
165	U. MD Biotechnology Institute	2,373	0	2,160	213	0	0	0	0	0	0
166	FL Institute of Technology	2,366	1,289	610	34	0	89	0	0	0	344
167	Embry-Riddle Aeronautical U.	2,361	0	10	0	0	0	0	0	414	1,937
168	U. MA Amherst	2,335	0	188	970	0	654	10	169	0	344
169	U. OR	2,312	80	366	303	0	33	0	1,491	0	39
170	NC Agricultural and Technical State U.	2,267	25	0	290	0	91	0	677	0	1,184
171	Medical C. WI	2,213	0	0	2,213	0	0	0	0	0	0
172	U. AL, The	2,185	481	86	98	0	354	0	256	0	910
173	U. TX Health Science Ctr. San Antonio	2,156	0	0	2,156	0	0	0	0	0	0
174	MT Tech of the U. MT	2,041	2	939	79	0	176	0	0	0	845
175	St. Joseph's U.	2,016	0	0	0	0	0	0	0	2,016	0
176	Ball State U.	1,989	181	0	1,013	0	102	2	682	0	9
177	U. Dayton	1,953	0	31	0	0	63	0	0	0	1,859
178	U. PR Mayaguez Campus	1,906	0	1,509	43	0	25	0	15	225	89
179	Yale U.	1,800	192	69	1,077	0	42	104	0	0	316
180	U. Toledo	1,793	0	208	15	0	1,181	0	10	0	379
181	Southern U. and A&M C. all campuses	1,789	0	945	100	0	180	0	425	0	139
182	Tuskegee U.	1,767	0	0	1,248	0	96	0	423	0	0
183	FL Atlantic U.	1,745	0	508	672	13	213	0	1	0	338
184	U. MD Baltimore County	1,705	0	805	8	148	0	41	264	0	439
185	Norfolk State U.	1,704	724	0	0	0	912	0	0	0	68
186	Teachers C. Columbia U.	1,660	0	0	641	0	0	492	527	0	0
187	Baylor C. of Medicine	1,648	0	0	1,648	0	0	0	0	0	0
188	TX A&M U. Corpus Christi	1,604	81	843	126	0	0	0	0	18	536
189	Boise State U.	1,592	0	438	385	0	120	0	32	0	617
190	CA State U. Long Beach	1,568	0	0	262	0	0	105	0	0	1,201
191	CA State Polytechnic U. San Luis Obispo	1,527	0	0	309	0	0	0	86	1,128	4
192	Kent State U. all campuses	1,502	0	104	1,102	0	139	0	157	0	0
193	U. GU	1,461	0	873	24	0	0	0	17	547	0
194	CO School of Mines	1,452	0	188	0	0	82	0	0	0	1,182
195	Southern IL U. Carbondale	1,412	0	30	249	0	0	98	310	724	1

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
196	Hampton U.	1,375	0	1,284	0	91	0	0	0	0	0
197	Nova Southeastern U.	1,342	0	1,029	0	0	0	293	0	20	0
198	U. TX San Antonio	1,340	75	137	394	3	58	110	230	0	333
199	U. West FL	1,338	702	621	3	0	0	9	3	0	0
200	U. TX Dallas	1,320	147	217	395	8	372	6	21	24	130
201	U. TX-Pan American	1,275	468	128	393	0	0	283	0	0	3
202	U. CA, Irvine	1,273	12	54	503	0	0	88	96	0	520
203	James Madison U.	1,262	1,194	2	0	0	0	66	0	0	0
204	Western MI U.	1,255	0	2	1,103	48	102	0	0	0	0
205	Lamar U.	1,247	0	1,039	0	0	0	0	0	0	208
206	CA State U. Fresno	1,242	0	400	805	0	17	0	0	0	20
207	Georgetown U.	1,234	47	0	908	0	0	0	279	0	0
208	U. VT	1,225	0	0	1,014	0	0	0	126	0	85
209	U. TX Medical Branch	1,193	0	0	1,193	0	0	0	0	0	0
210	Albany State U.	1,180	32	25	269	0	15	0	779	37	23
211	U. TX El Paso	1,180	0	589	2	0	234	0	65	0	290
212	Worcester Polytechnic Institute	1,178	55	0	10	30	0	0	0	0	1,083
213	Gallaudet U.	1,163	0	0	0	0	0	1,163	0	0	0
214	Loma Linda U.	1,145	0	0	1,145	0	0	0	0	0	0
215	Clarkson U.	1,077	0	0	20	0	65	0	0	0	992
216	Old Dominion U.	1,064	15	205	261	0	16	0	0	0	567
217	U. Akron all campuses	1,058	0	88	252	59	61	0	145	0	453
218	CA State U. Dominguez Hills	1,048	154	0	0	854	0	0	40	0	0
219	U. MA Boston	1,036	0	251	37	0	0	0	748	0	0
220	VA State U.	1,028	0	0	1,028	0	0	0	0	0	0
221	Southeastern LA U.	1,012	0	0	972	0	39	0	1	0	0
222	Marquette U.	1,008	0	0	0	0	9	0	17	0	982
223	Rochester Institute of Technology	1,007	0	328	0	0	167	0	107	0	405
224	U. NC Greensboro	985	0	0	896	0	13	61	15	0	0
225	ID State U.	980	0	142	352	5	0	0	351	12	118
226	U. North TX Health Science Ctr. Ft. Worth	920	0	0	920	0	0	0	0	0	0
227	Western KY U.	883	0	1	121	0	761	0	0	0	0
228	TX Tech U. Health Science Ctr.	870	0	0	870	0	0	0	0	0	0
229	U.S. Coast Guard Academy	865	0	0	0	0	4	0	0	0	861
230	Catholic U. America, The	863	0	0	13	0	112	194	5	0	539
231	Brown U.	857	346	5	412	1	4	0	85	0	4
232	Barnard C.	855 e	0 e	0 e	95 e	0 e	41 e	710 e	9 e	0 e	0 e
233	San Diego State U.	851	0	105	457	0	137	1	34	0	117
234	Brigham Young U. all campuses	847	0	30	125	0	30	0	530	0	132

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
235	TN Technological U.	845	0	0	571	0	15	0	0	0	259
236	Morgan State U.	822	0	0	159	0	377	0	0	53	233
237	U. of the VI	802	0	0	81	0	0	0	679	42	0
238	Loyola U. Chicago	798	0	0	694	50	10	0	44	0	0
239	Lehigh U.	792	93	233	0	30	60	0	0	0	376
240	Clark Atlanta U.	727	0	0	0	0	77	0	290	300	60
241	Western Carolina U.	722	38	22	0	0	0	389	273	0	0
242	CUNY Hunter C.	716	0	0	0	14	332	0	370	0	0
243	C. Charleston	714	0	629	11	0	0	0	74	0	0
244	U. WI Green Bay	694	0	580	0	0	0	0	114	0	0
245	U. Denver	665	0	115	466	0	0	0	0	0	84
246	Cleveland State U.	663	0	124	65	0	0	28	418	0	28
247	Central WA U.	655	0	563	0	0	8	0	84	0	0
248	St. Louis U. all campuses	655 e	0 e	334 e	310 e	0 e	0 e	0 e	11 e	0 e	0 e
249	Savannah State U.	653	0	566	0	0	0	0	0	0	87
250	U. WI Superior	650	0	626	21	0	0	0	3	0	0
251	IL Institute of Technology	645	0	0	0	0	0	0	0	0	0
252	U. AR for Medical Sciences	640	0	0	640	0	0	0	0	0	0
253	CA State U. Monterey Bay	635	55	463	117	0	0	0	0	0	0
254	Tarleton State U.	622	0	430	8	0	184	0	0	0	0
255	Xavier U. LA	620	0	0	456	0	74	0	0	0	90
256	CA State U. Northridge	615	0	70	7	73	46	0	263	0	156
257	Pittsburg State U.	603	0	0	111	3	0	0	0	0	489
258	Alfred U. all campuses	602	0	0	0	0	2	0	0	0	600
259	Universidad Central del Caribe	597	0	0	597	0	0	0	0	0	0
260	U. WI Stout	581	0	0	0	0	0	0	0	581	0
261	U. WI La Crosse	580	0	0	218	0	0	0	362	0	0
262	OR Institute of Technology	562	226	5	0	0	0	0	0	0	331
263	U. MO-St. Louis	532	0	0	5	0	0	69	458	0	0
264	Oakland U.	526	42	0	4	0	17	0	0	0	463
265	SD School of Mines and Technology	517	0	132	0	0	0	0	0	86	299
266	Thomas Jefferson U.	498	0	0	498	0	0	0	0	0	0
267	Morehead State U.	497	0	0	0	0	0	0	497	0	0
268	U. IL Springfield	491	0	0	0	0	0	0	465	26	0
269	Youngstown State U.	480	0	0	0	0	464	0	0	0	16
270	U. MO-Kansas City	468	0	0	53	0	207	0	170	0	38
271	U. AR Little Rock	466	17	0	0	0	25	0	0	0	424
272	McNeese State U.	451	0	441	0	0	0	10	0	0	0
273	U. NC Charlotte	451	5	127	119	0	2	0	0	2	196

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
274	U. WI Stevens Point	449	0	49	400	0	0	0	0	0	0
275	U.S. Naval Academy	445	18	53	0	3	29	151	0	0	191
276	Lafayette C.	427	0	0	0	60	29	5	0	0	333
277	Swarthmore C.	421	0	0	0	0	0	421	0	0	0
278	TX A&M U. System Health Science Ctr.	420	0	0	185	0	0	0	0	0	235
279	Pace U. all campuses	419	0	0	419	0	0	0	0	0	0
280	Rowan U.	399	0	0	0	0	0	0	160	0	239
281	NM Institute of Mining and Technology	398	132	170	0	0	0	0	0	42	54
282	Juniata C.	393	0	205	161	0	0	0	27	0	0
283	Indiana U. PA all campuses	391	0	0	65	0	0	0	150	176	0
284	IL State U.	386	0	30	280	0	0	0	76	0	0
285	U. of the Pacific	376	0	0	0	0	0	0	191	0	185
286	Alcorn State U.	375	0	0	375	0	0	0	0	0	0
287	East Carolina U.	367	0	12	138	0	173	0	44	0	0
288	Western WA U.	363	0	62	150	0	0	0	0	0	151
289	Stevens Institute of Technology	360	40	83	0	0	232	0	0	5	0
290	U. Northern IA	356	33	26	75	0	70	0	152	0	0
291	MS Valley State U.	354	123	0	153	0	78	0	0	0	0
292	Coastal Carolina U.	345	0	337	8	0	0	0	0	0	0
293	CUNY Queens C.	342	342	0	0	0	0	0	0	0	0
294	Baylor U.	338	0	0	73	12	102	0	14	120	17
295	Claremont Graduate U.	335	211	0	0	25	0	57	42	0	0
296	U. SD	333	0	0	144	0	0	12	177	0	0
297	Southwest MO State U.	328	0	34	149	0	0	0	0	0	145
298	Wright State U. all campuses	328	0	0	220	0	37	11	30	0	30
299	Polytechnic U.	326	0	0	0	0	0	0	0	0	326
300	Union C. (Schenectady, NY)	322	0	0	277	0	45	0	0	0	0
301	DePaul U.	316	7	4	0	0	0	145	160	0	0
302	FL Gulf Coast U.	315	0	315	0	0	0	0	0	0	0
303	Shaw U.	300	0	300	0	0	0	0	0	0	0
304	Black Hills State U.	297	0	0	285	0	12	0	0	0	0
305	St. Cloud State U.	295	0	2	62	0	0	0	231	0	0
306	Macalester C.	294	0	21	98	138	37	0	0	0	0
307	U. AR Pine Bluff	291	0	0	258	0	33	0	0	0	0
308	GA Southern U.	290	0	60	121	75	20	0	14	0	0
309	Murray State U.	285	0	88	192	0	5	0	0	0	0
310	Duquesne U.	283	0	0	34	0	210	1	38	0	0
311	Furman U.	283	0	21	202	0	60	0	0	0	0
312	Bucknell U.	276	25	0	0	0	20	0	0	0	231

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
313	Central MI U.	276	0	3	93	1	131	1	47	0	0
314	Clark U.	275 e	0 e	129 e	86 e	32 e	0 e	0 e	0 e	0 e	28 e
315	U. WI Eau Claire	254	0	5	198	0	19	32	0	0	0
316	Roger Williams U. Bristol	247	0	247	0	0	0	0	0	0	0
317	Seton Hall U.	243	0	0	189	0	54	0	0	0	0
318	Southern IL U. Edwardsville	233	0	0	0	0	4	0	122	1	106
319	U. Northern CO	231	0	0	155	0	0	0	76	0	0
320	Calvin C.	230	146	0	20	0	0	64	0	0	0
321	St. Mary's U. (San Antonio, TX)	230	0	0	0	0	0	0	0	0	230
322	AR State U. main campus	228	0	48	180	0	0	0	0	0	0
323	Eastern MI U.	226	0	30	196	0	0	0	0	0	0
324	TX Christian U.	211	41	0	44	0	95	6	0	0	25
325	American U.	203	0	0	20	0	0	0	183	0	0
326	Grand Valley State U.	202	0	170	32	0	0	0	0	0	0
327	Bowie State U.	200	102	0	98	0	0	0	0	0	0
328	Northern KY U.	200	0	0	33	0	16	41	110	0	0
329	U. North TX	192	0	24	1	0	3	76	65	0	23
330	SUNY C. Oswego	191	80	29	7	0	2	0	0	73	0
331	Hampshire C.	189	123	0	0	0	66	0	0	0	0
332	Bowdoin C.	188	0	0	38	0	150	0	0	0	0
333	Uniformed Services U. of the Health Sciences	183	0	0	183	0	0	0	0	0	0
334	TX Woman's U.	170	0	0	170	0	0	0	0	0	0
335	Providence C.	167	0	0	113	0	36	18	0	0	0
336	U. of the Sciences Philadelphia	164	0	0	164	0	0	0	0	0	0
337	East TN State U.	163	0	2	101	0	0	0	0	60	0
338	Wellesley C.	163	0	0	1	0	7	0	0	155	0
339	TX A&M U. Kingsville	157	0	15	41	0	0	0	0	90	11
340	Elizabeth City State U.	156	0	152	0	4	0	0	0	0	0
341	CA State U. Los Angeles	153	0	34	20	0	0	0	52	0	47
342	Whilman C.	153	0	105	0	0	48	0	0	0	0
343	Ithaca C.	152	0	0	83	8	0	61	0	0	0
344	U. CA Office of the President	151	0	0	148	0	0	0	3	0	0
345	New C. FL	146	0	98	0	0	6	0	42	0	0
346	U. Richmond	146	0	0	75	0	0	0	71	0	0
347	CUNY Graduate Ctr.	139	0	0	0	0	0	139	0	0	0
348	Iona C.	137	137	0	0	0	0	0	0	0	0
349	Western U. of Health Sciences	137	0	0	137	0	0	0	0	0	0
350	Dillard U.	134	0	0	0	0	134	0	0	0	0
351	Stephen F. Austin State U.	134	0	0	71	0	63	0	0	0	0

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
352	Appalachian State U.	128	0	33	92	0	0	0	3	0	0
353	Lincoln U. (Lincoln University, PA)	122	0	0	0	0	122	0	0	0	0
354	U. North FL	122	0	0	73	0	0	0	23	0	26
355	Sul Ross State U.	120	0	0	49	0	28	0	43	0	0
356	CUNY Brooklyn C.	116	0	0	100	0	0	0	0	0	16
357	Southern Methodist U.	116	0	0	0	19	0	3	0	0	94
358	SUNY C. Old Westbury	115	0	0	60	0	0	0	55	0	0
359	Amherst C.	114	0	0	0	0	0	0	114	0	0
360	SUNY C. Brockport	103	0	0	83	0	20	0	0	0	0
361	U. WI Oshkosh	103	0	0	101	0	0	0	0	2	0
362	Bowling Green State U. all campuses	99	0	0	5	65	0	0	29	0	0
363	Southern CT State U.	98	98	0	0	0	0	0	0	0	0
364	Central CT State U.	97	0	0	0	0	5	0	92	0	0
365	SUNY C. Cortland	94	0	16	33	0	0	0	45	0	0
366	Chapman U.	92	0	92	0	0	0	0	0	0	0
367	Denison U.	89	0	0	0	0	89	0	0	0	0
368	SUNY C. Plattsburgh	87	0	61	0	0	0	0	26	0	0
369	Medical C. GA	86	0	0	86	0	0	0	0	0	0
370	Fairfield U.	84	0	0	15	0	0	0	69	0	0
371	SUNY C. Buffalo	83	0	83	0	0	0	0	0	0	0
372	U. DC	79	0	79	0	0	0	0	0	0	0
373	Drake U.	78	0	0	0	0	0	0	0	78	0
374	Eastern KY U.	78	0	1	69	0	8	0	0	0	0
375	St. Mary's C. MD	78	0	78	0	0	0	0	0	0	0
376	Augustana C. (Sioux Falls, SD)	72	31	0	38	0	3	0	0	0	0
377	Mt. Holyoke C.	72	0	70	0	0	0	2	0	0	0
378	CUNY C. Staten Island	66	0	0	0	0	66	0	0	0	0
379	John Carroll U.	65	0	0	45	20	0	0	0	0	0
380	U. NC Asheville	64	0	51	4	0	0	0	9	0	0
381	SUNY Fredonia	61	0	0	51	0	10	0	0	0	0
382	Lewis and Clark C.	60	0	0	60	0	0	0	0	0	0
383	West TX A&M U.	57	0	0	44	0	0	0	13	0	0
384	TN State U.	56	0	0	56	0	0	0	0	0	0
385	Hope C.	55	0	0	0	0	0	0	0	0	55
386	Smith C.	54	0	8	25	0	13	0	8	0	0
387	Wake Forest U.	54	0	0	0	0	54	0	0	0	0
388	Prairie View A&M U.	53	0	0	5	0	0	0	0	0	48
389	U. San Francisco	52	0	0	27	0	0	0	11	14	0
390	SUNY Purchase C.	51	0	12	39	0	0	0	0	0	0

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
391	U. Central OK	48	0	0	48	0	0	0	0	0	0
392	Nicholls State U.	47	0	0	19	28	0	0	0	0	0
393	Trinity C. (Hartford, CT)	42	0	0	0	0	0	0	42	0	0
394	Northeastern OH Universities C. of Medicine	41	0	0	41	0	0	0	0	0	0
395	Rush U.	41	0	0	41	0	0	0	0	0	0
396	Carleton C.	40	0	0	0	0	40	0	0	0	0
397	U. Findlay, The	36	0	0	36	0	0	0	0	0	0
398	CA State Polytechnic U. Pomona	35	0	0	35	0	0	0	0	0	0
399	IN State U. all campuses	35	0	14	15	0	6	0	0	0	0
400	Claflin U.	34	0	0	34	0	0	0	0	0	0
401	CUNY John Jay C. of Criminal Justice	34	0	0	0	0	0	0	0	34	0
402	Gustavus Adolphus C.	34	0	0	11	0	23	0	0	0	0
403	Ft. Lewis C.	31	0	7	24	0	0	0	0	0	0
404	Pomona C.	27	0	0	0	0	27	0	0	0	0
405	Bridgewater State C.	26	0	0	0	0	0	0	26	0	0
406	Fayetteville State U.	25	0	0	0	0	0	20	0	5	0
407	Wiley C.	24	0	0	0	0	0	0	0	24	0
408	CO State U. Pueblo	21	0	0	0	0	21	0	0	0	0
409	Eastern WA U.	21	0	0	10	0	0	0	11	0	0
410	Radford U.	21	0	16	0	0	5	0	0	0	0
411	U. PR Humacao U. C.	21	0	0	5	0	16	0	0	0	0
412	Evergreen State C.	20	0	0	0	0	6	0	0	14	0
413	U. WI Parkside	15	0	4	10	0	1	0	0	0	0
414	Valparaiso U.	15	0	0	0	15	0	0	0	0	0
415	U. of St. Thomas (St. Paul, MN)	14	0	0	0	0	14	0	0	0	0
416	Christopher Newport U.	13	0	0	0	0	0	13	0	0	0
417	Rider U.	13	0	10	3	0	0	0	0	0	0
418	U. San Diego	13	0	0	0	7	6	0	0	0	0
419	Oberlin C.	12	0	12	0	0	0	0	0	0	0
420	Fordham U.	10	0	0	10	0	0	0	0	0	0
421	Maharishi U. of Management	10 e	0 e	0 e	0 e	10 e	0 e	0 e	0 e	0 e	0 e
422	TX A&M U. Commerce	10	1	0	9	0	0	0	0	0	0
423	U. PR Rio Piedras Campus	10	0	1	0	0	9	0	0	0	0
424	WV State C.	10	0	0	10	0	0	0	0	0	0
425	Bryn Mawr C.	8	0	0	0	0	8	0	0	0	0
426	U. Redlands	8	0	8	0	0	0	0	0	0	0
427	Wesleyan U.	8	0	8	0	0	0	0	0	0	0
428	Mercer U. all campuses	7	0	0	0	0	0	0	7	0	0
429	Trinity U.	7	0	0	7	0	0	0	0	0	0
430	KY State U.	6	0	6	0	0	0	0	0	0	0

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
431	Lake Forest C.	5	0	0	5	0	0	0	0	0	0
432	St. Olaf C.	5	0	0	0	0	5	0	0	0	0
433	U. Houston-Clear Lake	5	0	5	0	0	0	0	0	0	0
434	Bradley U.	4	0	0	0	0	0	0	4	0	0
435	U. Detroit Mercy	4 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	4 e
436	Hamilton C. (Clinton, NY)	3	0	0	0	0	0	0	3	0	0
437	Skidmore C.	3	0	0	0	0	0	3	0	0	0
438	Reed C.	2	0	0	0	0	2	0	0	0	0
439	Roanoke C.	2	0	0	2	0	0	0	0	0	0
440	U. LA Monroe	2	0	0	2	0	0	0	0	0	0
441	Western IL U.	2	0	0	0	2	0	0	0	0	0
	Abilene Christian U.	0	0	0	0	0	0	0	0	0	0
	Air Force Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Albany C. of Pharmacy	0	0	0	0	0	0	0	0	0	0
	Albany Medical C.	0	0	0	0	0	0	0	0	0	0
	Allegheny C.	0	0	0	0	0	0	0	0	0	0
	Andrews U.	0	0	0	0	0	0	0	0	0	0
	Augsburg C.	0	0	0	0	0	0	0	0	0	0
	Augustana C. (Rock Island, IL)	0	0	0	0	0	0	0	0	0	0
	Bates C.	0	0	0	0	0	0	0	0	0	0
	Benedict C.	0	0	0	0	0	0	0	0	0	0
	Bethune-Cookman C.	0	0	0	0	0	0	0	0	0	0
	Bluefield State C.	0	0	0	0	0	0	0	0	0	0
	CA State U. Fullerton	0	0	0	0	0	0	0	0	0	0
	Charles R. Drew U. of Medicine and Science	0	0	0	0	0	0	0	0	0	0
	Colby C.	0	0	0	0	0	0	0	0	0	0
	Colgate U.	0	0	0	0	0	0	0	0	0	0
	C. of the Holy Cross	0	0	0	0	0	0	0	0	0	0
	C. Wooster	0	0	0	0	0	0	0	0	0	0
	Cooper Union	0	0	0	0	0	0	0	0	0	0
	CUNY Baruch C.	0	0	0	0	0	0	0	0	0	0
	CUNY Herbert H. Lehman C.	0	0	0	0	0	0	0	0	0	0
	CUNY Medgar Evers C.	0	0	0	0	0	0	0	0	0	0
	CUNY York C.	0	0	0	0	0	0	0	0	0	0
	Des Moines U. Osteopathic Medical Ctr.	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
	Dickinson C.	0	0	0	0	0	0	0	0	0	0
	Eastern OR U.	0	0	0	0	0	0	0	0	0	0
	Fisk U.	0	0	0	0	0	0	0	0	0	0
	Ft. Valley State U.	0	0	0	0	0	0	0	0	0	0

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Franklin & Marshall C.	0	0	0	0	0	0	0	0	0	0
	Grambling State U.	0	0	0	0	0	0	0	0	0	0
	Grinnell C.	0	0	0	0	0	0	0	0	0	0
	Hartwick C.	0	0	0	0	0	0	0	0	0	0
	Hendrix C.	0	0	0	0	0	0	0	0	0	0
	Jarvis Christian C.	0	0	0	0	0	0	0	0	0	0
	Kalamazoo C.	0	0	0	0	0	0	0	0	0	0
	Kennesaw State U.	0	0	0	0	0	0	0	0	0	0
	Kettering U.	0	0	0	0	0	0	0	0	0	0
	Kirksville C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	La Salle U.	0	0	0	0	0	0	0	0	0	0
	Langston U.	0	0	0	0	0	0	0	0	0	0
	Lawrence Technological U.	0	0	0	0	0	0	0	0	0	0
	Lincoln U. (Jefferson City, MO)	0	0	0	0	0	0	0	0	0	0
	Loyola Marymount U.	0	0	0	0	0	0	0	0	0	0
	MA C. of Pharmacy and Health Sciences	0	0	0	0	0	0	0	0	0	0
	Medical C. OH	0	0	0	0	0	0	0	0	0	0
	Meharry Medical C.	0	0	0	0	0	0	0	0	0	0
	Middle TN State U.	0	0	0	0	0	0	0	0	0	0
	Midwestern U. (Chicago, IL)	0	0	0	0	0	0	0	0	0	0
	Milwaukee School of Engineering	0	0	0	0	0	0	0	0	0	0
	Morehouse School of Medicine	0	0	0	0	0	0	0	0	0	0
	Mt. St. Mary's C. (Los Angeles, CA)	0	0	0	0	0	0	0	0	0	0
	National U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	New England C. of Optometry	0	0	0	0	0	0	0	0	0	0
	NJ City U.	0	0	0	0	0	0	0	0	0	0
	NM Highlands U.	0	0	0	0	0	0	0	0	0	0
	NY Institute of Technology all campuses	0	0	0	0	0	0	0	0	0	0
	NY Medical C.	0	0	0	0	0	0	0	0	0	0
	Northeastern IL U.	0	0	0	0	0	0	0	0	0	0
	PA C. of Optometry	0	0	0	0	0	0	0	0	0	0
	Philadelphia C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Pitzer C.	0	0	0	0	0	0	0	0	0	0
	Ponce School of Medicine	0	0	0	0	0	0	0	0	0	0
	Rockefeller U.	0	0	0	0	0	0	0	0	0	0
	Rosalind Franklin U. of Medicine and Science	0	0	0	0	0	0	0	0	0	0
	Rose-Hulman Institute of Technology	0	0	0	0	0	0	0	0	0	0
	Saginaw Valley State U.	0	0	0	0	0	0	0	0	0	0
	Seattle U.	0	0	0	0	0	0	0	0	0	0

TABLE 78. R&D expenditures at universities and colleges in science and engineering fields, financed by all other federal agencies, ranked by all R&D expenditures, by field: FY 2004

(Dollars in thousands)

Rank	Institution	All R&D expenditures	Computer sciences	Environmental sciences	Life sciences	Mathematical sciences	Physical sciences	Psychology	Social sciences	Sciences, nec	Engineering
	Simmons C.	0	0	0	0	0	0	0	0	0	0
	Sonoma State U.	0	0	0	0	0	0	0	0	0	0
	Southeastern OK State U.	0	0	0	0	0	0	0	0	0	0
	Southern OR U.	0	0	0	0	0	0	0	0	0	0
	Southern U. New Orleans	0	0	0	0	0	0	0	0	0	0
	Spelman C.	0	0	0	0	0	0	0	0	0	0
	State U. West GA	0	0	0	0	0	0	0	0	0	0
	SUNY C. Geneseo	0	0	0	0	0	0	0	0	0	0
	SUNY C. of Optometry	0	0	0	0	0	0	0	0	0	0
	Towson U.	0	0	0	0	0	0	0	0	0	0
	Truman State U.	0	0	0	0	0	0	0	0	0	0
	U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
	U. Hartford	0	0	0	0	0	0	0	0	0	0
	U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
	U. Houston-Downtown	0	0	0	0	0	0	0	0	0	0
	U. Portland	0	0	0	0	0	0	0	0	0	0
	U. Puget Sound	0	0	0	0	0	0	0	0	0	0
	U. Scranton	0	0	0	0	0	0	0	0	0	0
	U. WI River Falls	0	0	0	0	0	0	0	0	0	0
	U. WI Whitewater	0	0	0	0	0	0	0	0	0	0
	VA Military Institute	0	0	0	0	0	0	0	0	0	0
	Wabash C.	0	0	0	0	0	0	0	0	0	0
	West Chester U. PA	0	0	0	0	0	0	0	0	0	0
	WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
	Wilkes U.	0	0	0	0	0	0	0	0	0	0
	Willamette U.	0	0	0	0	0	0	0	0	0	0
	Yeshiva U.	0	0	0	0	0	0	0	0	0	0

e = estimated.

nec = not elsewhere classified.

NOTES: Institutions that are not listed in this table did not provide federally financed R&D expenditures by federal agency. Agency detail may not add to total because some respondents reporting total federal agency data did not break out these data by field of science. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 79. Current fund expenditures for research equipment at universities and colleges, by science and engineering field and source of funds: FY 2003–04

(Dollars in thousands)

Field	All expenditures		Federal		Nonfederal	
	2003	2004	2003	2004	2003	2004
All science and engineering	1,813,752	1,878,810	1,151,171	1,168,279	662,581	710,531
Science	1,429,288	1,484,689	918,890	946,726	510,398	537,963
Computer sciences	98,703	104,784	82,255	84,426	16,448	20,358
Environmental sciences	120,985	125,397	88,448	93,316	32,537	32,081
Atmospheric sciences	17,387	19,660	14,073	15,856	3,314	3,804
Earth sciences	42,075	43,098	25,920	28,843	16,155	14,255
Oceanography	50,214	40,996	40,839	32,662	9,375	8,334
Environmental sciences, nec	11,309	21,643	7,616	15,955	3,693	5,688
Life sciences	816,131	824,184	491,287	503,128	324,844	321,056
Agricultural sciences	77,486	78,375	31,589	31,925	45,897	46,450
Biological sciences	334,803	337,220	214,570	215,102	120,233	122,118
Medical sciences	371,114	374,479	228,300	235,429	142,814	139,050
Life sciences, nec	32,728	34,110	16,828	20,672	15,900	13,438
Mathematical sciences	7,480	8,003	5,340	5,836	2,140	2,167
Physical sciences	296,695	337,054	217,164	230,118	79,531	106,936
Astronomy	18,946	24,579	14,090	19,549	4,856	5,030
Chemistry	118,831	116,590	77,446	77,486	41,385	39,104
Physics	138,793	159,599	109,280	113,978	29,513	45,621
Physical sciences, nec	20,125	36,286	16,348	19,105	3,777	17,181
Psychology	22,696	17,714	16,844	12,778	5,852	4,936
Social sciences	17,789	14,504	8,041	6,423	9,748	8,081
Economics	2,875	1,870	1,637	665	1,238	1,205
Political sciences	2,256	1,848	1,172	1,330	1,084	518
Sociology	3,254	2,363	1,651	1,132	1,603	1,231
Social sciences, nec	9,404	8,423	3,581	3,296	5,823	5,127
Sciences, nec	48,809	53,049	9,511	10,701	39,298	42,348
Engineering	384,464	394,121	232,281	221,553	152,183	172,568
Aeronautical/astronautical engineering	22,016	21,303	18,361	15,235	3,655	6,068
Bioengineering/biomedical engineering	20,137	18,477	11,623	9,770	8,514	8,707
Chemical engineering	31,888	55,215	17,768	17,702	14,120	37,513
Civil engineering	30,506	33,676	18,591	20,613	11,915	13,063
Electrical engineering	85,888	81,232	58,129	55,970	27,759	25,262
Mechanical engineering	55,308	55,240	38,219	36,411	17,089	18,829
Metallurgical/materials engineering	60,983	38,472	27,908	25,060	33,075	13,412
Engineering, nec	77,738	90,506	41,682	40,792	36,056	49,714

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 80. Current fund expenditures for research equipment at universities and colleges, by science and engineering field, source of funds, and institutional control: FY 2004

(Dollars in thousands)

Field	All expenditures			Federal			Nonfederal		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
All science and engineering	1,878,810	1,329,901	548,909	1,168,279	766,391	401,888	710,531	563,510	147,021
Science	1,484,689	1,034,305	450,384	946,726	618,017	328,709	537,963	416,288	121,675
Computer sciences	104,784	82,683	22,101	84,426	66,399	18,027	20,358	16,284	4,074
Environmental sciences	125,397	104,630	20,767	93,316	77,321	15,995	32,081	27,309	4,772
Atmospheric sciences	19,660	17,213	2,447	15,856	13,514	2,342	3,804	3,699	105
Earth sciences	43,098	34,558	8,540	28,843	23,275	5,568	14,255	11,283	2,972
Oceanography	40,996	34,774	6,222	32,662	26,897	5,765	8,334	7,877	457
Environmental sciences, nec	21,643	18,085	3,558	15,955	13,635	2,320	5,688	4,450	1,238
Life sciences	824,184	565,894	258,290	503,128	310,885	192,243	321,056	255,009	66,047
Agricultural sciences	78,375	76,225	2,150	31,925	30,333	1,592	46,450	45,892	558
Biological sciences	337,220	213,526	123,694	215,102	121,548	93,554	122,118	91,978	30,140
Medical sciences	374,479	250,710	123,769	235,429	144,172	91,257	139,050	106,538	32,512
Life sciences, nec	34,110	25,433	8,677	20,672	14,832	5,840	13,438	10,601	2,837
Mathematical sciences	8,003	4,819	3,184	5,836	3,624	2,212	2,167	1,195	972
Physical sciences	337,054	228,585	108,469	230,118	139,532	90,586	106,936	89,053	17,883
Astronomy	24,579	13,334	11,245	19,549	9,146	10,403	5,030	4,188	842
Chemistry	116,590	82,414	34,176	77,486	52,072	25,414	39,104	30,342	8,762
Physics	159,599	107,098	52,501	113,978	67,633	46,345	45,621	39,465	6,156
Physical sciences, nec	36,286	25,739	10,547	19,105	10,681	8,424	17,181	15,058	2,123
Psychology	17,714	11,243	6,471	12,778	7,070	5,708	4,936	4,173	763
Social sciences	14,504	12,293	2,211	6,423	4,961	1,462	8,081	7,332	749
Economics	1,870	1,698	172	665	589	76	1,205	1,109	96
Political sciences	1,848	1,257	591	1,330	861	469	518	396	122
Sociology	2,363	1,760	603	1,132	797	335	1,231	963	268
Social sciences, nec	8,423	7,578	845	3,296	2,714	582	5,127	4,864	263
Sciences, nec	53,049	24,158	28,891	10,701	8,225	2,476	42,348	15,933	26,415
Engineering	394,121	295,596	98,525	221,553	148,374	73,179	172,568	147,222	25,346
Aeronautical/astronautical engineering	21,303	16,780	4,523	15,235	12,187	3,048	6,068	4,593	1,475
Bioengineering/biomedical engineering	18,477	12,047	6,430	9,770	4,677	5,093	8,707	7,370	1,337
Chemical engineering	55,215	46,121	9,094	17,702	12,862	4,840	37,513	33,259	4,254
Civil engineering	33,676	25,729	7,947	20,613	14,600	6,013	13,063	11,129	1,934
Electrical engineering	81,232	63,900	17,332	55,970	41,458	14,512	25,262	22,442	2,820
Mechanical engineering	55,240	35,675	19,565	36,411	21,116	15,295	18,829	14,559	4,270
Metallurgical/materials engineering	38,472	28,089	10,383	25,060	17,285	7,775	13,412	10,804	2,608
Engineering, nec	90,506	67,255	23,251	40,792	24,189	16,603	49,714	43,066	6,648

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 81. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	1,510,067	1,698,774	1,813,752	1,878,810	838,263	1,004,543	1,151,171	1,168,279
1	U. CA, San Diego	13,323	31,775	43,521	60,566	7,955	22,752	33,139	51,459
2	Johns Hopkins U., The ^a	39,332	41,596	40,784	57,470	16,542	22,460	16,462	26,745
3	SUNY Albany	6,178	4,290	17,172	44,522	2,929	1,417	2,443	5,748
4	Purdue U. all campuses	13,887	23,252	23,502	40,877	6,495	5,586	5,586	11,192
5	MA Institute of Technology	35,776	35,503	41,227	38,908	25,295	23,999	31,909	32,639
6	U. WI Madison	30,338	35,389	33,435	37,725	16,381	19,493	19,364	21,526
7	U. CA, Los Angeles	14,659	32,879	38,832	37,497	6,523	19,447	23,548	25,698
8	IN U. all campuses	13,753	22,641	19,311	31,634	4,521	5,598	8,470	7,064
9	U. WA	25,053	31,157	34,880	29,930	19,615	24,341	29,645	26,675
10	U. PR Medical Sciences Campus	21,816 i	29,089	29,089 i	29,089 i	17,949 i	23,931	23,931 i	23,931 i
11	U. IL Urbana-Champaign	24,678	26,097	46,975	28,346	16,614	18,422	36,984	22,294
12	PA State U. all campuses	19,500	20,403	24,598	26,548	9,713	12,724	11,821	16,167
13	OH State U. all campuses	22,754	16,577	16,362	25,977	6,149	4,611	7,295	9,848
14	Baylor C. of Medicine	25,079	15,690	22,368	24,360	9,846	7,975	12,300	17,797
15	CA Institute of Technology	8,923	6,559	30,830	24,347	8,141	6,198	19,164	14,014
16	Cornell U. all campuses	18,297	21,443	22,010	22,983	12,733	15,049	14,868	18,761
17	Washington U. St. Louis	18,224	16,108	35,265	22,420	14,372	13,172	32,281	20,019
18	U. CA, Davis	18,784	19,317	20,854	21,839	8,137	7,263	8,309	9,088
19	U. FL	17,130	18,010	23,295	21,143	5,678	6,950	9,280	9,101
20	TX A&M U. all campuses	12,630	13,002	10,613	20,720	3,076	4,566	4,820	6,781
21	LA State U. all campuses	17,054	23,700	19,943	20,194	4,239	4,926	5,947	6,370
22	Stanford U.	22,197	23,800	27,671	19,196	19,046	19,824	24,482	16,666
23	U. CA, Berkeley	10,424	21,205	21,731	18,931	6,065	12,805	14,682	12,749
24	U. MI all campuses	15,591	20,744	23,213	18,490	10,518	10,490	12,823	10,932
25	U. CA, San Francisco	12,434	20,916	20,232	18,290	6,068	8,856	10,775	10,282
26	U. Chicago	11,589	9,884	11,682	17,989	9,269	8,115	10,468	17,319
27	VA Polytechnic Institute and State U.	8,457	9,130	10,057	17,204	1,838	2,320	4,125	4,497
28	U. Central FL	18,247	5,303	5,786	16,650	2,152	2,895	3,486	10,332
29	GA Institute of Technology all campuses	25,493	21,201	16,516	16,399	11,962	10,320	3,716	4,707
30	U. MN all campuses	14,823	14,038	14,473	16,020	8,933	9,391	9,140	10,399
31	Harvard U.	9,957	11,304	11,470	15,589	8,595	10,823	10,658	14,731
32	U. Rochester	14,552	17,294	14,566	15,166	12,432	15,719	13,520	13,378
33	MS State U.	7,837	7,814	7,241	14,727	5,511	4,956	3,379	7,052
34	U. AZ	17,692	21,735	12,212	14,145	12,654	11,956	6,861	8,766
35	U. CO all campuses	10,531	10,035	12,014	13,463	9,641	9,063	10,765	11,601
36	FL International U.	2,097	3,489	3,796	13,408	1,143	2,347	2,974	9,800
37	Columbia U. in the City of NY	12,929	14,575	12,351	13,045	11,006	9,941	9,743	11,187
38	U. CA, Irvine	6,830	14,249	13,442	12,857	4,277	5,292	7,800	7,955
39	Vanderbilt U.	5,303	7,934	13,401	12,365	4,581	4,813	6,350	9,423
40	Case Western Reserve U.	8,037	12,293	13,890	12,333	5,049	6,190	9,265	5,673
41	Northwestern U.	9,244	10,152	12,562	12,257	5,061	5,211	6,204	5,716
42	Yale U.	12,980	14,660	12,251	12,137	10,947	12,214	10,288	10,636
43	U. PA	9,747	11,856	12,680	11,873	7,959	9,367	9,268	8,397
44	FL State U.	9,255	14,106	10,912	11,796	3,283	10,561	7,045	8,275
45	U. Miami	8,637	15,864	13,175	11,790	5,944	11,709	10,465	8,929
46	U. KY all campuses	15,816	9,191	12,683	11,776	4,788	3,178	5,430	3,742
47	U. CA, Santa Barbara	5,679	11,788	15,022	11,437	4,309	6,813	9,762	6,824
48	U. LA Lafayette	2,262	4,769	4,073	11,337	298	673	1,198	644
49	U. IA	9,862	8,720	8,269	11,324	5,486	5,354	5,251	6,600
50	U. UT	10,004	8,430	13,285	11,183	5,038	4,963	8,671	7,476

TABLE 81. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
51	U. GA	22,731	10,086	13,662	11,095	3,028	2,698	7,304	3,068
52	Yeshiva U.	7,331	7,771	8,765	10,916	5,865	6,217	7,013	9,650
53	Duke U.	7,039	12,602	11,062	10,905	5,081	9,976	9,868	7,937
54	Carnegie Mellon U.	12,875	37,262	13,507	10,880	9,792	33,547	10,908	8,183
55	U. TX Southwestern Medical Ctr. Dallas	10,268	12,139	10,466	10,560	3,099	3,389	5,794	5,099
56	MI State U.	12,475	10,531	12,892	10,486	6,243	4,282	4,785	4,880
57	U. Pittsburgh all campuses	8,162	7,533	10,167	10,435	6,166	6,286	7,892	8,733
58	U. TX Austin	15,146	12,845	11,840	9,788	7,470	7,925	7,476	6,603
59	SUNY Buffalo all campuses	1,764	7,780	11,150	9,742	1,067	5,895	5,315	5,391
60	U. IL Chicago	11,894	9,374	9,110	9,697	5,356	2,354	4,939	6,455
61	U. TX M. D. Anderson Cancer Ctr.	11,449	7,435	6,422	9,479	1,348	942	878	1,481
62	ND State U. all campuses	2,244	3,330	7,884	9,023	1,186	1,318	6,417	7,219
63	Rutgers, The State U. NJ all campuses	10,381	10,583	11,679	8,922	3,611	3,959	6,654	4,888
64	U. NE all campuses	9,233	10,098	7,712	8,581	2,754	4,052	2,675	3,099
65	U. DE	7,245	7,492	9,558	8,521	3,120	3,347	4,927	5,057
66	U. AK Fairbanks all campuses	10,939	5,258	7,138	8,378	2,318	3,093	3,896	5,877
67	U. HI Manoa	9,005	17,387	14,966	8,371	6,594	13,248	12,485	5,612
68	U. MD College Park	10,993	12,542	9,844	8,334	8,446	8,452	6,280	4,630
69	U. NH	5,914	4,067	4,929	8,255	3,861	3,263	4,356	7,816
70	SUNY Stony Brook all campuses	9,349	13,100	8,297	8,160	4,682	6,464	4,542	5,607
71	IA State U.	5,837	7,726	6,804	7,754	1,908	3,030	3,025	3,048
72	U. VA all campuses	6,198	9,389	7,861	7,715	5,398	6,979	6,821	6,752
73	U. Cincinnati all campuses	4,828	5,357	5,270	7,713	1,539	1,297	1,220	1,599
74	NC State U.	12,194	3,465	7,786	7,689	3,750	1,526	3,965	4,242
75	Emory U.	8,497	10,790	12,999	7,636	4,148	3,902	5,815	3,685
76	Boston U.	3,805	6,091	9,071	7,629	3,453	5,570	8,496	7,405
77	Medical C. WI	2,837	2,741	2,079	7,428	1,882	1,976	1,733	5,432
78	OR Health & Science U.	3,852	4,444 e	7,904	7,248	3,068	3,516 e	7,031	6,289
79	NY U.	8,671	7,302	8,675	7,241	5,595	4,924	5,939	6,218
80	U. MD Baltimore	4,778	5,281	10,167	7,167	1,608	1,729	3,591	3,097
81	U. Southern CA	11,232	8,272	9,840	7,060	9,269	6,081	7,073	5,167
82	U. OK all campuses	8,283	9,899	6,470	6,857	3,030	3,543	3,331	4,849
83	U. KS all campuses	4,687	5,429	10,431	6,823	2,914	3,903	8,883	6,131
84	U. NM all campuses	20,123	7,395	7,918	6,788	17,332	4,796	5,133	4,561
85	U. CT all campuses	6,673	7,522	5,261	6,657	3,748	4,027	3,967	5,374
86	NM State U. all campuses	4,721	8,926	5,004	6,552	3,660	7,339	3,753	3,735
87	U. CA, Santa Cruz	1,537	3,595	4,041	6,416	1,021	2,264	1,844	5,145
88	Rockefeller U.	6,080	6,459	7,991	6,198	3,050	2,610	2,547	1,910
89	U. SC all campuses	6,821	5,107	7,644	6,185	3,860	2,668	5,260	3,617
90	AZ State U. main campus	7,740	5,834	7,457	6,173	3,382	3,834	4,181	3,475
91	U. AL Birmingham, The	8,008	8,467	6,594	6,074	6,398	7,033	5,469	4,451
92	U. NC Chapel Hill	6,299	6,750	8,559	5,992	3,232	3,199	4,084	3,617
93	U. VT	2,712	3,344	3,581	5,983	1,291	1,743	2,361	4,845
94	Dartmouth C.	2,671	3,750	4,895	5,946	2,167	3,406	4,743	5,396
95	U. MA Amherst	6,747	8,239	8,562	5,874	3,942	4,732	5,796	4,146

TABLE 81. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by FY 2004 total for the first 100 institutions: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
96	Clemson U.	6,051	6,652	6,008	5,813	2,928	2,267	3,887	2,518
97	U. NV, Reno	3,928	6,586	5,950	5,635	2,711	5,887	5,617	4,004
98	Wayne State U.	10,500	9,546	6,729	5,634	1,853	2,712	4,024	2,867
99	U. of Notre Dame	7,386	6,354	4,295	5,607	3,308	3,819	3,428	3,945
100	Auburn U. all campuses	5,398	5,094	6,130	5,475	2,321	2,513	1,632	2,440
	All other sampled institutions	368,862	422,797	425,204	409,048	206,654	253,972	285,958	273,429

e = estimated.

i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$44 million in total current fund expenditures for research equipment.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 82. R&D expenditures at university-administered federally funded research and development centers, by character of work: FY 1953–2004

(Dollars in millions)

Fiscal year	All R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
1953	121	33	27.3	88	72.7
1954	141	39	27.7	102	72.3
1955	180	49	27.2	131	72.8
1956	194	51	26.3	143	73.7
1957	240	65	27.1	175	72.9
1958	293	78	26.6	215	73.4
1959	338	92	27.2	246	72.8
1960	360	97	26.9	263	73.1
1961	410	115	28.0	295	72.0
1962	470	136	28.9	334	71.1
1963	530	159	30.0	371	70.0
1964	629	191	30.4	438	69.6
1965	629	208	33.1	421	66.9
1966	630	227	36.0	403	64.0
1967	673	250	37.1	423	62.9
1968	719	276	38.4	443	61.6
1969	725	275	37.9	450	62.1
1970	737	269	36.5	468	63.5
1971	716	260	36.3	456	63.7
1972	753	244	32.4	509	67.6
1973	817	296	36.2	521	63.8
1974	865	390	45.1	475	54.9
1975	987	439	44.5	548	55.5
1976	1,147	512	44.6	635	55.4
1977	1,384	600	43.4	784	56.6
1978 ^a	1,717	NA	NA	NA	NA
1979	1,935	1,022	52.8	913	47.2
1980	2,246	1,132	50.4	1,114	49.6
1981	2,486	1,270	51.1	1,216	48.9
1982	2,479	1,327	53.5	1,152	46.5
1983	2,737	1,484	54.2	1,253	45.8
1984	3,150	1,690	53.6	1,461	46.4
1985	3,523	1,765	50.1	1,758	49.9
1986	3,895	1,876	48.2	2,018	51.8
1987	4,206	2,033	48.3	2,173	51.7
1988	4,531	2,245	49.6	2,285	50.4
1989	4,730	2,352	49.7	2,377	50.3
1990	4,832	2,428	50.2	2,404	49.8
1991	5,076	2,592	51.1	2,484	48.9
1992	5,245	2,840	54.2	2,404	45.8
1993	5,290	2,933	55.4	2,357	44.6
1994	5,271	2,998	56.9	2,273	43.1
1995	5,363	2,742	51.1	2,622	48.9
1996	5,380	2,580	48.0	2,800	52.0
1997	5,440	2,683	49.3	2,757	50.7
1998	5,531	2,636	47.7	2,895	52.3
1999	5,644	2,732	48.4	2,912	51.6
2000	5,675	2,863	50.5	2,812	49.5
2001	5,944	2,906	48.9	3,038	51.1
2002	7,069	3,698	52.3	3,371	47.7

TABLE 82. R&D expenditures at university-administered federally funded research and development centers, by character of work: FY 1953–2004

(Dollars in millions)

Fiscal year	All R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
2003	7,200	3,760	52.2	3,441	47.8
2004	7,579	3,685	48.6	3,893	51.4

NA = not available.

^a Separate data for basic research and applied research and development were not collected for FY 1978.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 83. R&D expenditures at all federally funded research and development centers, by source of funds and type of FFRDC: FY 2004
(Dollars in thousands)

Institution and ranking	All expenditures	Federal government	State and local governments	Industry	Institutional funds	All other sources
All FFRDCs	12,716,055	12,362,279	36,839	134,201	34,282	148,454
University-administered FFRDCs	7,578,865	7,424,037	11,462	31,666	1,834	109,866
Ames Lab.	27,227	27,227	0	0	0	0
Argonne National Lab.	520,881	473,824	3,431	0	0	43,626
AUI National Radio Astronomy Observatory	42,215	41,874	0	0	173	168
Fermi National Accelerator Lab.	318,435	318,395	0	40	0	0
Jet Propulsion Lab.	1,551,171	1,551,171	0	0	0	0
Lawrence Berkeley National Lab.	482,159	421,712	3,488 e	11,840 e	0 e	45,119 e
Lawrence Livermore National Lab.	1,425,840	1,405,250	1,776	1,343	0	17,471
Los Alamos National Lab.	1,986,235	1,973,000	0	13,235	0	0
MA Institute of Technology Lincoln Lab.	594,822	589,022	2,100	3,700	0	0
National Astronomy and Ionosphere Ctr.	12,285	11,148	0	0	1,043	94
National Ctr. for Atmospheric Research	154,714	151,326	0	0	0	3,388
National Optical Astronomy Observatory	43,020	43,020	0	0	0	0
Plasma Physics Lab.	75,255	74,637	0	0	618	0
Software Engineering Institute	57,920	56,387	25	1,508	0	0
Stanford Linear Accelerator Ctr.	182,027	182,027	0	0	0	0
Thomas Jefferson National Accelerator Facility	104,659	104,017	642	0	0	0
Nonprofit-administered FFRDCs	2,586,394	2,447,507	16,175	56,530	27,594	38,588
Aerospace Corporation	32,529	14,312	0	5,872	12,345	0
Arroyo Ctr. Headquarters	26,101	26,101	0	0	0	0
Brookhaven National Lab.	450,342	432,180	188	7,872	0	10,102
C3I Federally Funded R&D Ctr.	35,932	35,932	0	0	0	0
Ctr. for Advanced Aviation System Development	6,462	3,180	0	0	3,282	0
Ctr. for Naval Analyses	79,087	74,438	277	0	4,372	0
Ctr. for Nuclear Waste Regulatory Analyses	16,847	15,447	38	942	420	0
Institute for Defense Analyses Communication & Computing	50,238	50,238	0	0	0	0
Institute for Defense Analyses Studies & Analyses	126,226	126,226	0	0	0	0
Internal Revenue Service FFRDC	3,687	3,687	0	0	0	0
National Defense Research Institute	26,550	26,550	0	0	0	0
National Renewable Energy Research Lab.	226,460	222,977	0	3,483	0	0
Oak Ridge National Lab.	776,203	750,209	1,172	14,161	7,175	3,486
Pacific Northwest National Lab.	693,000	629,300	14,500	24,200	0	25,000
Project Air Force	33,049	33,049	0	0	0	0
Science and Technology Policy Institute, The	3,681	3,681	0	0	0	0
Industry-administered FFRDCs	2,550,796	2,490,735	9,202	46,005	4,854	0
ID National Engineering and Environmental Lab.	180,306	167,583	442	7,427	4,854	0
NCI Frederick Cancer R&D Ctr.	335,000	335,000	0	0	0	0
Sandia National Lab.	1,941,164	1,893,826	8,760	38,578	0	0
Savannah River Technology Ctr.	94,326	94,326	0	0	0	0

e = estimated.

FFRDC = federally funded research and development center.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 84. Total and federally financed R&D expenditures at university-administered federally funded research and development centers, ranked by FY 2004 total: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	5,944,112	7,069,245	7,200,056	7,578,865	5,771,401	6,810,095	6,948,179	7,424,037
1	Los Alamos National Lab.	1,333,194 e	1,994,031	2,106,145	1,986,235	1,312,974 e	1,884,284	1,990,573	1,973,000
2	Jet Propulsion Lab.	1,355,463	1,435,039	1,390,560	1,551,171	1,355,463	1,435,039	1,390,560	1,551,171
3	Lawrence Livermore National Lab.	1,090,875	1,227,111	1,286,215	1,425,840	1,049,675	1,192,111	1,258,505	1,405,250
4	MA Institute of Technology Lincoln Lab.	380,200	451,200	522,851	594,822	370,616	443,883	516,112	589,022
5	Argonne National Lab.	478,391	506,666	500,828	520,881	452,860	469,426	466,340	473,824
6	Lawrence Berkeley National Lab.	408,487	467,461	441,500	482,159	337,757	407,166	381,264	421,712
7	Fermi National Accelerator Lab.	310,928	313,556	303,340	318,435	310,928	313,556	303,041	318,395
8	Stanford Linear Accelerator Ctr.	145,979	171,343	164,747	182,027	145,979	171,343	164,747	182,027
9	National Ctr. for Atmospheric Research	119,846	157,173	140,756	154,714	116,553	153,202	137,993	151,326
10	Thomas Jefferson National Accelerator Facility	102,202	106,305	106,966	104,659	100,855	105,554	106,319	104,017
11	Plasma Physics Lab.	76,021	73,610	66,764	75,255	75,387	72,976	66,345	74,637
12	Software Engineering Institute	37,052	45,088	45,412	57,920	37,052	42,267	43,470	56,387
13	National Optical Astronomy Observatory	37,364	41,051	44,409	43,020	37,364	41,051	44,409	43,020
14	AUI National Radio Astronomy Observatory	34,208	43,900	42,842	42,215	34,043	43,684	42,644	41,874
15	Ames Lab.	22,916	23,416	25,213	27,227	22,916	23,416	25,213	27,227
16	National Astronomy and Ionosphere Ctr.	10,986	12,295	11,508	12,285	10,979	11,137	10,644	11,148

e = estimated.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 85. Total and federally financed R&D expenditures at nonprofit-administered federally funded research and development centers, ranked by FY 2004 total: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	2,165,377	2,270,667	2,463,386	2,586,394	2,049,628	2,144,113	2,327,555	2,447,507
1	Oak Ridge National Lab.	581,135	620,328	690,538	776,203	551,379	595,459	664,210	750,209
2	Pacific Northwest National Lab.	562,000	608,500	679,000	693,000	512,000	551,500	615,000	629,300
3	Brookhaven National Lab.	454,500	454,482	452,728	450,342	435,400	436,596	436,969	432,180
4	National Renewable Energy Research Lab.	207,230	197,438	221,496	226,460	205,665	195,719	219,015	222,977
5	Institute for Defense Analyses Studies & Analyses	92,930	98,236	110,200	126,226	92,930	98,236	110,200	126,226
6	Ctr. for Naval Analyses	69,102	72,712	75,869	79,087	66,616	68,318	71,895	74,438
7	Institute for Defense Analyses Communication and Computing	43,100	45,296	45,960	50,238	43,100	45,296	45,960	50,238
8	C3I Federally Funded R&D Ctr.	29,458	31,163	32,696	35,932	29,458	31,163	32,696	35,932
9	Project Air Force	29,361	32,439	33,555	33,049	29,361	32,439	33,555	33,049
10	Aerospace Corporation	17,600	26,306	32,745	32,529	5,600	10,016	13,619	14,312
11	National Defense Research Institute	25,512	25,317	26,908	26,550	25,512	25,317	26,908	26,550
12	Arroyo Ctr. Headquarters	24,317	24,484	27,889	26,101	24,317	24,484	27,889	26,101
13	Ctr. for Nuclear Waste Regulatory Analyses	14,977	16,398	17,625	16,847	14,135	15,362	16,915	15,447
14	Ctr. for Advanced Aviation System Development	5,683	6,256	6,633	6,462	5,683	2,896	3,180	3,180
15	Internal Revenue Service FFRDC	1,161	2,434	2,834	3,687	1,161	2,434	2,834	3,687
16	Science and Technology Policy Institute, The	7,311	8,878	6,710	3,681	7,311	8,878	6,710	3,681

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE 86. Total and federally financed R&D expenditures at industry-administered federally funded research and development centers, ranked by FY 2004 total: FY 2001–04

(Dollars in thousands)

Rank	Institution	Total				Federally financed R&D expenditures			
		2001	2002	2003	2004	2001	2002	2003	2004
	All institutions	1,961,818	2,196,512	2,463,438	2,550,796	1,888,192	2,140,902	2,405,584	2,490,735
1	Sandia National Lab.	1,416,796	1,583,348	1,742,861	1,941,164	1,357,072	1,535,682	1,696,798	1,893,826
2	NCI Frederick Cancer R&D Ctr.	187,222	260,000	296,000	335,000	183,478	260,000	296,000	335,000
3	ID National Engineering and Environmental Lab.	270,636	259,562	330,154	180,306	260,478	251,618	318,363	167,583
4	Savannah River Technology Ctr.	87,164	93,602	94,423	94,326	87,164	93,602	94,423	94,326

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

APPENDIX A. TECHNICAL NOTES

SCOPE OF THE SURVEY

The National Science Foundation (NSF) Survey of Research and Development Expenditures at Universities and Colleges (Academic R&D Expenditures Survey) is the primary source of information on separately budgeted research and development (R&D) expenditures within academic institutions in the United States and outlying areas. Conducted annually since FY 1972, the survey collects information on R&D expenditures by academic field as well as by source of funds. The results of the survey are primarily used to assess trends in R&D expenditures across the fields of science and engineering (S&E). This information is vital for federal, state, and academic planners in order to make decisions on future R&D funding priorities.

The fiscal year 2004 Academic R&D Expenditures Survey was sent to 620 institutions of higher education in the United States, Guam, Puerto Rico, and the U.S. Virgin Islands. These institutions grant a bachelor's degree or higher in science and engineering (S&E) and expend at least \$150,000 in separately budgeted R&D in S&E.

The survey population was reviewed before data collection began to ensure that each institutional classification was accurate. Characteristics of the schools were reviewed before and during the course of the survey to

determine whether changes had occurred (e.g., highest degree granted; school openings, closings, or mergers).

After data collection closed, institutions were reviewed to verify that only those reporting at least \$150,000 in separately budgeted R&D were included in the population. Of the 620 institutions surveyed, 8 reported total R&D expenditures of less than \$150,000. These 8 institutions were excluded from the population and their data are not included in the FY 2004 detailed statistical tables. The total and federally financed R&D expenditures for these 8 institutions are listed in table A-1.

The survey also collected information on R&D from each of the nation's 36 federally funded research and development centers (FFRDCs). Of these 36 FFRDCs, 16 are administered by academic institutions, 16 are administered by nonprofit organizations, and 4 are administered by industrial organizations.

To qualify for the survey, an FFRDC must be engaged in basic or applied research, development, or management of R&D activities, and the results of these activities must be directly monitored by the federal government (usually a single agency) in a relationship expected to be maintained long-term. The center must be operated, managed, and administered as an autonomous organization or as an identifiable separate operating unit of its parent institution. Finally, 70% or more of

TABLE A-1. Total and federally financed R&D expenditures at surveyed institutions reporting less than \$150,000 in separately budgeted R&D expenditures: FY 2001-04
(Dollars in thousands)

Institution	Total				Federally financed R&D expenditures			
	2001	2002	2003	2004	2001	2002	2003	2004
All institutions	3,460	2,595	2,365	500	1,111	889	708	222
Adelphi U.	137	121 i	105 i	87	101	93 i	85 i	77
East Stroudsburg U. PA	962	151	152	100	147	0	0	29
Fairleigh Dickinson U. all campuses	223	190	286	143	98	98	85	66
Mercy C.	NA	NA	NA	60	NA	NA	NA	40
Salem International U.	355	355 e	178 i	0	106	106 e	53 i	0
Spalding U.	1,055	1,188	1,188 e	0	331	359	359 e	0
VA Union U.	403 i	269 i	135 i	0	323 i	216 i	109 i	0
Western State C. CO	325	321	321 e	110	5	17	17 e	10

e = estimated.

i = imputed.

NA = not available.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

the center's financial support must be received from the federal government. Although the same survey form (NSF Form 411) is used to collect data from both academic institutions and FFRDCs, FFRDCs were asked to provide only item 1 data (R&D expenditures by source of funding). FFRDC R&D data are reported in tables 82–86.

FY 2004 SURVEY FRAME DESIGN

The Academic R&D Expenditures Survey is a census of the full population of eligible academic institutions. Before FY 1998 a census of eligible institutions was conducted approximately every 5 years; during intervening years eligible institutions were sampled. Since then, a census has been conducted annually. NSF also conducts a population review each year to ensure that all institutions that meet the inclusion criteria are surveyed. In previous years (1) all S&E doctorate-granting institutions and all HBCUs were surveyed and (2) all S&E master's and bachelor's degree-granting institutions that reported at least \$150,000 in separately budgeted R&D expenditures in S&E in the previous fiscal year were surveyed. In FY 2004 NSF revised the criterion for inclusion to the following:

- All S&E bachelor's and higher degree-granting institutions that reported at least \$150,000 in separately budgeted R&D expenditures in S&E in the previous fiscal year are surveyed.

For the FY 2004 survey NSF contacted bachelor's and higher degree-granting institutions that were not in the population of the previous census to determine whether they met the \$150,000 expenditure criterion. In-

stitutions with a minimum of \$150,000 were added to or retained in the survey population. As a result, the overall number of institutions in the population decreased from 666 in FY 2003 to 648 in FY 2004 (table A-2).

SURVEY INSTRUMENT

Most major R&D-performing institutions have incorporated the data that are needed to complete this survey into their record-keeping systems, thereby ensuring a consistent format from one year to the next. Such consistency yields the most useful statistics for time series. As a rule, information to complete this survey is found in the institutions' year-end accounting records.

The survey consists of seven main items.

Item 1 is a request that institutions report their total current expenditures for separately budgeted S&E R&D expenditures by source of funds. Institutions are also asked to provide the percentage of total expenditures and the percentage of federally financed expenditures that are considered basic research. Also included are research funds for which an outside organization, educational or other, is a subrecipient.

Care should be taken when interpreting data on source of funds. Industry R&D support is limited to grants and contracts for R&D activities from profit-making organizations. Total industry funds exclude research funded through unrestricted accounts and from corporate foundations, endowments, and fellowships to students; those funds would be included in an institution's own funding totals. An increasing number of institutions have links

TABLE A-2. Institutions surveyed for the academic R&D expenditures survey, by respondent type and highest degree granted: FY 1999–2004

Respondent type and highest degree granted	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004
All respondents	614	639	644	661	666	648
Universities and colleges	597	623	608	625	630	612
Doctorate	359	362	358	361	369	352
Master's	148	162	158	161	159	160
Bachelor's	90	99	92	103	102	100
All FFRDCs	17	16	36	36	36	36
University-administered FFRDCs	17	16	16	16	16	16
Industry-administered FFRDCs	0	0	4	4	4	4
Nonprofit-administered FFRDCs	0	0	16	16	16	16

FFRDC = federally funded research and development center.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

with industry and foundations through subcontracts, thus complicating the identification of funding sources. In addition, institutional policy may determine whether unrestricted state support is reported as state or institutional funding.

Item 1A is a request for total and federally financed current fund expenditures for separately budgeted S&E R&D passed through the institution to subrecipients.

Item 1B is a request for total and federally financed current fund expenditures for separately budgeted S&E R&D received by the institution as a subrecipient.

Item 2 is a request for total and federally financed current fund expenditures for separately budgeted R&D activities by detailed S&E fields. When interpreting these data at the detailed discipline level, users should keep in mind that there is considerable interdisciplinary and multidisciplinary activity.

Item 2A is a request for total and federally financed current fund expenditures for separately budgeted non-S&E R&D activities by detailed non-S&E fields. This item was originally added to the survey as an optional item in FY 1997 and was collected as a core item for the first time in FY 2003.

Item 2B is a request for federally financed current fund expenditures for separately budgeted R&D activities by S&E field and federal agency. This item was originally added to the survey as an optional item in FY 1998 and was collected as a core item for the first time in FY 2003.

Item 3 is a request for the portions of total and federally financed expenditures reported in items 1 and 2 that were used for the purchase of research equipment out of current funds. This portion includes all research equipment purchased under sponsored research project awards and disbursed in the same detailed disciplines as in item 2. These data are of special interest to federal and institutional policymakers in determining current funding levels for scientific research instrumentation.

RESPONSE RATE

The FY 2004 survey questionnaires were sent by e-mail in November 2004. Respondents could choose to submit an Adobe Portable Document Format questionnaire from the Web or use the Web-based data collection system to respond to the survey. Every effort was made to maintain close contact with respondents in order to

preserve both consistency and continuity in the resulting data. Questionnaires were carefully examined for completeness upon receipt. Computerized facsimiles of the survey data were then prepared for each institution; these compared the current and 2 prior years of data and noted any substantive disparities. Respondents were sent personalized e-mail messages asking them to provide revisions before the final processing and tabulation of data. These e-mail messages included a link to the Academic R&D Expenditures Survey Web-based data collection system, allowing respondents to view and correct their data via the Web.

Respondents were asked to explain significant discrepancies between current- and prior-years' reporting patterns previously verified to be correct. They were encouraged to correct prior-years' data if anomalies were identified. When respondents updated or amended figures from past years, NSF made corresponding changes to trend data in this report and to the underlying microdata database. Similarly, if a respondent institution underwent an organizational change, such as a merger, NSF incorporated the effects of the change into prior-years' data.

By the survey's closing date at the beginning of September 2005, forms had been received from 575 universities and colleges out of the academic population of 612, a response rate of 94.0%. Responses were received from 97.4% of all doctorate-granting institutions, to which 98.5% of the estimated national R&D expenditures in S&E fields had been disbursed. All 36 FFRDCs returned forms. Table A-3 displays a detailed breakdown of response rates by highest degree granted, and table A-4 displays a breakdown of response rates by survey item.

NATIONAL TOTAL AND IMPUTATION

Two statistical procedures were used to provide a national estimate for all universities and colleges performing R&D in FY 2004. First, data were estimated by imputation for the 37 institutions that had not responded by the closing date of the survey, using imputation techniques that have been used consistently since FY 1976. These techniques use prior years' figures derived from the data of respondent institutions with similar characteristics, including highest degree granted and type of institutional control (public or private). Second, data were imputed for universities and colleges that submitted only partial responses. This imputation was performed using prior years' figures for each institution to allocate that institution's FY 2004 total R&D expenditures reported

TABLE A-3. Response rates for the academic R&D expenditures survey, by respondent type and highest degree granted: FY 2004

Respondent type and highest degree granted	Number in survey universe	Number of complete responses	Number of partial responses	Total number of responses	Response rate (%)
All respondents	648	533	78	611	94.3
Universities and colleges	612	497	78	575	94.0
Doctorate	352	301	42	343	97.4
Master's	160	119	24	143	89.4
Bachelor's	100	77	12	89	89.0
All FFRDCs	36	36	0	36	100.0
University-administered FFRDCs	16	16	0	16	100.0
Industry-administered FFRDCs	4	4	0	4	100.0
Nonprofit-administered FFRDCs	16	16	0	16	100.0

FFRDC = federally funded research and development center.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE A-4. Response rates for the academic R&D expenditures survey at universities and colleges, by survey item: FY 2004

Survey item	Number in survey universe	Number of complete responses	Number of partial responses	Total number of responses	Number of nonresponses	Response rate (%)
Item 1	612	505	70	575	37	94.0
Item 1A	612	512	25	537	75	87.7
Item 1B	612	526	19	545	67	89.1
Item 2	612	555	20	575	37	94.0
Item 2A	612	516	6	522	90	85.3
Item 2B	612	542	4	546	66	89.2
Item 3	612	543	5	548	64	89.5

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

within the various categories. The imputed total R&D was \$198 million, or 0.5%, of the \$43 billion in all separately budgeted R&D expenditures (table A-5).

Tables A-6 and A-7 present breakdowns of imputed amounts for total and federally financed R&D expenditures by S&E field. The dollar amount imputed is displayed along with the percentage it represents of the national estimate for universities and colleges in a particular field. The amount imputed is similarly broken down by source of funds in table A-8.

A number of surveyed institutions have responded intermittently in past years. For years in which no response was received, data have been imputed as previously described. Although the imputation algorithm accurately reflects national trends, it cannot account for specific trends at individual institutions. For this reason, a separate estimation of prior-years' data was performed, following current-year imputation.

For each institution, formerly imputed key variables for items 1–3 were recomputed to ensure that the imputed data accurately represent the growth patterns shown by reported data. If, for example, data were reported for FY 1996 and FY 2004 but not for the intervening years, the difference between the reported figures for each item total was calculated and evenly distributed across the intervening years (1997–2003). The new figures were spread across disciplines (items 2 and 3) or sources of support (item 1) on the basis of the most recent reporting pattern. Institutions were given an opportunity to review imputed data and provide comments before data were finalized. These procedures result in much more consistent reporting trends for individual institutions but have little effect on aggregate figures reflecting national totals.

CHANGES IN BASIC RESEARCH TOTALS

The Division of Science Resources Statistics (SRS) at NSF regularly reviews the methodologies used in the

TABLE A-5. Imputed amounts for total R&D expenditures at universities and colleges, by highest degree granted: FY 2004
(Dollars in millions)

Highest degree granted	All separately budgeted R&D expenditures	Imputed amount	Imputed amount as % of total
All universities and colleges	42,945	198	0.5
Doctorate	42,282	153	0.4
Nondoctorate	663	45	6.8

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

Academic R&D Expenditures Survey with the goal of producing the most accurate statistics possible for researchers and policymakers. Reviews of responses to item 1, question 2, were conducted in FY 2001, 2002, 2003, and 2004. These reviews determined that the aggregate statistics on basic research could be improved by refining the imputation methodology for that item. Some universities and colleges are either unable or unwilling to respond to this question, and values must be imputed in order to present aggregate statistics.

In the past, if a respondent did not reply to the basic research question, the prior year's basic research share (whether reported by or imputed for the respondent) was carried forward. After interviews with respondents revealed that abnormal or erroneous values (such as 0% basic research) were sometimes carried forward for several years, a revised imputation methodology was introduced. The revised imputation methodology carries forward the prior year's basic research share only if the respondent reported or estimated that year's data. In all other cases an econometric model is used to impute the amount of total and federal basic research. The model accounts for differences between public and private institutions and nonfederal sources of R&D funding.

ITEM 1A ANALYSIS

Item 1A, R&D passed through to subrecipients, was completed by 93.4% of the respondents from academic institutions (table A-9). The total R&D expenditures passed through to subrecipients, \$2.7 billion, represents 7.3% of item 1A respondents' total R&D expenditures (\$37 billion) and 6.4% of all separately budgeted R&D (\$43 billion) in FY 2004 (see table 41). Doctorate-granting institutions reported a higher percentage of pass-

TABLE A-6. Imputed amounts for total R&D expenditures at universities and colleges, by science and engineering field: FY 2004
(Dollars in millions)

Science and engineering field	All separately budgeted R&D expenditures	Imputed amount	Imputed amount as % of total
All science and engineering	42,945	198	0.5
Computer sciences	1,405	20	1.4
Environmental sciences	2,354	44	1.9
Atmospheric sciences	416	23	5.5
Earth sciences	830	62	7.5
Oceanography	776	42	5.4
Environmental sciences, nec	332	60	18.1
Life sciences	25,650	105	0.4
Agricultural sciences	2,695	21	0.8
Biological sciences	7,840	67	0.9
Medical sciences	14,041	70	0.5
Life sciences, nec	1,074	19	1.8
Mathematical sciences	450	8	1.8
Physical sciences	3,545	40	1.1
Astronomy	420	1	0.2
Chemistry	1,317	21	1.6
Physics	1,522	21	1.4
Physical sciences, nec	286	14	4.9
Psychology	782	3	0.4
Social sciences	1,670	30	1.8
Economics	317	8	2.5
Political sciences	302	15	5.0
Sociology	355	7	2.0
Social sciences, nec	696	11	1.6
Sciences, nec	777	37	4.8
Engineering	6,312	48	0.8
Aeronautical/astronautical engineering	440	47	10.7
Bioengineering/biomedical engineering	370	27	7.3
Chemical engineering	493	16	3.2
Civil engineering	789	19	2.4
Electrical engineering	1,438	140	9.7
Mechanical engineering	867	96	11.1
Metallurgical/materials engineering	565	2	0.4
Engineering, nec	1,350	154	11.4

nec = not elsewhere classified.

NOTES: The imputation rate at the total level is lower than the imputation rates at the science and engineering field levels because many institutions could provide totals but not the science and engineering field details. Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE A-7. Imputed amounts for federally financed R&D expenditures at universities and colleges, by science and engineering field: FY 2004 (Dollars in millions)

Science and engineering field	All separately budgeted federal R&D expenditures	Imputed amount	Imputed amount as % of total
All science and engineering	27,379	145	0.5
Computer sciences	1,028	18	1.8
Environmental sciences	1,596	33	2.1
Atmospheric sciences	322	20	6.2
Earth sciences	535	50	9.3
Oceanography	548	37	6.8
Environmental sciences, nec	191	49	25.7
Life sciences	16,413	72	0.4
Agricultural sciences	868	14	1.6
Biological sciences	5,504	45	0.8
Medical sciences	9,372	50	0.5
Life sciences, nec	669	14	2.1
Mathematical sciences	319	7	2.2
Physical sciences	2,567	23	0.9
Astronomy	289	0	0.0
Chemistry	919	11	1.2
Physics	1,169	17	1.5
Physical sciences, nec	189	3	1.6
Psychology	587	2	0.3
Social sciences	695	21	3.0
Economics	109	3	2.8
Political sciences	110	14	12.7
Sociology	182	2	1.1
Social sciences, nec	295	5	1.7
Sciences, nec	271	23	8.5
Engineering	3,902	30	0.8
Aeronautical/astronautical engineering	336	46	13.7
Bioengineering/biomedical engineering	236	25	10.6
Chemical engineering	268	12	4.5
Civil engineering	347	14	4.0
Electrical engineering	971	137	14.1
Mechanical engineering	582	92	15.8
Metallurgical/materials engineering	352	2	0.6
Engineering, nec	811	143	17.6

nec = not elsewhere classified.

NOTES: The imputation rate at the total level is lower than the imputation rates at the science and engineering field levels because many institutions could provide totals but not the science and engineering field details. Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE A-8. Imputed amounts for R&D expenditures at universities and colleges, by source of funds: FY 2004 (Dollars in millions)

Source of funds	All separately budgeted R&D expenditures	Imputed amount	Imputed amount as % of total
All sources	42,945	198	0.5
Federal government	27,379	145	0.5
State and local government	2,847	10	0.4
Industry	2,107	10	0.5
Institutional funds	7,771	31	0.4
All other sources	2,841	12	0.4

NOTES: Because of rounding, detail may not add to total. Because some institutions reported total R&D expenditures but not individual sources, the sum of imputed sources is greater than the imputed amount for all sources.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

through funds in item 1A than did nondoctorate-granting institutions, 7.3% (\$2.7 billion) compared with 6.0% (\$35 million) for nondoctorate-granting institutions. Item 1A respondents from private institutions reported a higher percentage of pass-through funds than did those from public institutions, 8.6% (\$1.2 billion) compared with 6.5% (\$1.6 billion) for public institutions.

Academic respondents to item 1A reported \$2.4 billion in federal R&D funds passed through to subrecipients (see table 41). This amount represents 9.8% of the federal support reported by item 1A respondents (\$24 billion) and 8.7% of the \$27 billion in federal support to all respondents.

Table 43 shows the total and federal R&D expenditures passed through to subrecipients for all item 1A respondents.

ITEM 1B ANALYSIS

Item 1B, R&D received as subrecipients, was completed by 94.8% of the respondents from academic institutions (table A-10). The total R&D expenditures received as subrecipients, \$3.0 billion, represents 7.2% of item 1B respondents' total R&D expenditures (\$42 billion) and 7.0% of all separately budgeted R&D (\$43 billion) in FY 2004 (see table 42). Doctorate-granting institutions reported a lower percentage of funds received as subrecipients in item 1B, 7.2% (\$2.9 billion), than did nondoctorate-granting institutions, 9.8% (\$57 million). Item 1B respondents from private institutions reported a slightly higher percentage of funds received as subrecipients than

TABLE A-9. Response summary for item 1A, R&D expenditures passed through to subrecipients, by highest degree granted and institutional control: FY 2004
(Dollars in thousands)

Type of institution	Response (number)			R&D expenditures			Federally financed R&D expenditures		
	All respondents	Item 1A respondents	Percent	All respondents	Item 1A respondents	Percent	All respondents	Item 1A respondents	Percent
All universities and colleges	575	537	93.4	42,746,686	37,494,310	87.7	27,237,503	24,265,416	89.1
Doctorate	343	319	93.0	42,128,755	36,900,098	87.6	26,846,063	23,886,429	89.0
Nondoctorate	232	218	94.0	617,931	594,212	96.2	391,440	378,987	96.8
Public	362	332	91.7	29,119,597	23,965,937	82.3	16,823,376	13,918,219	82.7
Private	213	205	96.2	13,627,089	13,528,373	99.3	10,414,127	10,347,197	99.4

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

TABLE A-10. Response summary for item 1B, R&D expenditures received as a subrecipient, by highest degree granted and institutional control: FY 2004
(Dollars in thousands)

Type of institution	Response (number)			R&D expenditures			Federally financed R&D expenditures		
	All respondents	Item 1B respondents	Percent	All respondents	Item 1B respondents	Percent	All respondents	Item 1B respondents	Percent
All universities and colleges	575	545	94.8	42,746,686	41,748,028	97.7	27,237,503	26,654,520	97.9
Doctorate	343	330	96.2	42,128,755	41,168,961	97.7	26,846,063	26,284,421	97.9
Nondoctorate	232	215	92.7	617,931	579,067	93.7	391,440	370,099	94.5
Public	362	339	93.6	29,119,597	28,218,385	96.9	16,823,376	16,306,290	96.9
Private	213	206	96.7	13,627,089	13,529,643	99.3	10,414,127	10,348,230	99.4

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

did those from public institutions, 8.4% (\$1.1 billion) compared with 6.6% (\$1.9 billion) for public institutions.

Academic respondents to item 1B reported \$2.7 billion in federal R&D funds received as subrecipients (see table 42). This amount represents 10.0% of the federal support reported by item 1B respondents (\$27 billion) and 9.8% of the \$27 billion in federal support to all respondents.

Table 44 shows total and federal R&D expenditures received as subrecipients for all item 1B respondents.

ITEM 2A ANALYSIS

Item 2A, R&D in non-S&E fields, was completed by 90.8% of the respondents from academic institutions (table A-11). The total non-S&E R&D expenditures, \$1.6 billion, represents 4.1% of item 2A respondents' total S&E and non-S&E R&D expenditures (\$39 billion) in FY 2004 (see table 64). Nondoctorate-granting institutions reported a higher percentage of non-S&E R&D

expenditures in item 2A than did doctorate-granting institutions, 31.4% (\$242 million) compared with 3.5% (\$1.3 billion) for doctorate-granting institutions. Item 2A respondents from public institutions reported a higher percentage of non-S&E R&D expenditures than did those from private institutions, 4.9% (\$1.2 billion) compared with 2.4% (\$319 million) for private institutions.

Academic respondents to item 2A reported \$670 million in federal non-S&E R&D. This amount represents 2.7% of the federal S&E and non-S&E support reported by item 2A respondents (\$25 billion).

Tables 65–67 show the total and federal non-S&E R&D expenditures for all item 2A respondents.

ITEM 2B ANALYSIS

Item 2B, federal sources of R&D by S&E field, was completed by 95.0% of the respondents from academic institutions. The total federal R&D expenditures reported by item 2B respondents, \$26 billion, represents 94.5% of

TABLE A-11. Response summary for item 2A, non-S&E R&D expenditures, by highest degree granted and institutional control: FY 2004
(Dollars in thousands)

Type of institution	Response (number)			S&E R&D expenditures			Federally financed S&E R&D expenditures		
	All	Item 2A	Percent	All	Item 2A	Percent	All	Item 2A	Percent
	respondents	respondents		respondents	respondents		respondents	respondents	
All universities and colleges	575	522	90.8	42,746,686	37,004,647	86.6	27,237,503	23,833,855	87.5
Doctorate	343	311	90.7	42,128,755	36,475,750	86.6	26,846,063	23,502,436	87.5
Nondoctorate	232	211	90.9	617,931	528,897	85.6	391,440	331,419	84.7
Public	362	325	89.8	29,119,597	24,107,522	82.8	16,823,376	14,020,640	83.3
Private	213	197	92.5	13,627,089	12,897,125	94.6	10,414,127	9,813,215	94.2

S&E = science and engineering.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

all reported federal R&D expenditures (\$27 billion) in FY 2004 (table A-12). For doctorate-granting institutions, Item 2B respondents reported a higher percentage of federal R&D expenditures (94.6%, or \$25 billion) than they did for nondoctorate-granting institutions, (85.2%, or \$333 million) for nondoctorate-granting institutions. Item 2B respondents from public institutions reported a higher percentage of federal R&D expenditures in item 2B than did those from private institutions, 98.8% (\$17 billion) compared with 87.6% (\$9.1 billion) for private institutions.

Academic respondents to item 2B reported the highest percentage of their federal R&D expenditures from the Department of Health and Human Services, 54.7%, or \$14 billion (see table 68). The National Science Foundation accounted for 12.6% (\$3.2 billion) of item 2B respondents' federal R&D; the Department of Defense, 9.6% (\$2.5 billion); the National Aeronautics and Space Administration, 4.3% (1.1 billion); the Department of Energy, 3.7% (\$940 million); and the U.S. Department of Agriculture, 3.0% (\$761 million).

Tables 68–78 show federally financed R&D expenditures by federal agency for all item 2B respondents.

DATA ANOMALIES

Within the University of California (UC) system, UC campuses manage nearly all R&D activities; however, some R&D expenditures are attributable to the UC Office of the President (UCOP) rather than to a particular campus. The reporting of UCOP R&D expenditures has changed over time. In FY 1997–2000 the UCOP amounts were reported as part of UC Berkeley, the campus that maintained UCOP's accounting ledgers. In FY 2001–03

UCOP amounts were reported under UC Los Angeles, which had assumed responsibility for UCOP's ledgers. In FY 2004 R&D expenditures began being reported separately for UCOP. In FY 2001, when approximately \$90 million of UCOP R&D expenditures were shifted from UC Berkeley to UC Los Angeles, R&D expenditures decreased by \$72 million at UC Berkeley and increased by \$163 million at UC Los Angeles. In FY 2004, when UCOP was reported separately from UC Los Angeles, total R&D at UC Los Angeles decreased by \$77 million, whereas UCOP showed expenditures of \$90 million. Thus some of the trend changes shown in table 27 for UC Los Angeles, UC Berkeley, and UCOP can be attributed to changes in the location of reporting UCOP R&D expenditures.

DATA AVAILABILITY

Selected data items for institutions are available on the Web at <http://www.nsf.gov/statistics/profiles/>. The institutional profiles cover data from this survey and data collected in other NSF academic S&E surveys: the Survey of Graduate Students and Postdoctorates in Science and Engineering (Graduate Student Survey) and the Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions (Federal S&E Support Survey). The profiles are also linked to the corresponding ranking table for each survey.

Data for these and other surveys are available through WebCASPAR, a database system designed to provide quick, convenient access to a wide range of statistical data on U.S. universities and colleges and their science and engineering resources. The latest version of WebCASPAR is available on the Web at <http://webcaspar.nsf.gov/>.

TABLE A-12. Response summary for item 2B, federally financed R&D expenditures by federal agency, by highest degree granted and institutional control: FY 2004
(Dollars in thousands)

Type of institution	Response (number)			R&D expenditures			Federally financed R&D expenditures		
	All respondents	Item 2B respondents	Percent	All respondents	Item 2B respondents	Percent	All respondents	Item 2B respondents	Percent
All universities and colleges	575	546	95.0	42,746,686	40,932,735	95.8	27,237,503	25,737,149	94.5
Doctorate	343	327	95.3	42,128,755	40,394,689	95.9	26,846,063	25,403,709	94.6
Nondoctorate	232	219	94.4	617,931	538,046	87.1	391,440	333,440	85.2
Public	362	343	94.8	29,119,597	28,787,010	98.9	16,823,376	16,614,127	98.8
Private	213	203	95.3	13,627,089	12,145,725	89.1	10,414,127	9,123,022	87.6

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.

WebCASPAR data are drawn from a number of sources. All data are available for individual institutions, by state, and at the national level. Longitudinal data from surveys of universities and colleges conducted by SRS include the Academic R&D Expenditures Survey, Graduate

Student Survey, and Federal S&E Support Survey. Data in WebCASPAR from the National Center for Education Statistics surveys of universities and colleges include earned degrees, opening fall enrollment, tuition, faculty salaries, tenure and fringe benefits, and financial statistics.

APPENDIX B: FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS: FY 2004

DEPARTMENT OF DEFENSE

Administered by universities and colleges

- Lincoln Laboratory
(Massachusetts Institute of Technology)
- Software Engineering Institute
(Carnegie Mellon University)

Administered by other nonprofit organizations

- Aerospace FFRDC
(The Aerospace Corporation)
- Arroyo Center
(RAND Corporation)
- C3I FFRDC
(MITRE Corporation)
- Center for Naval Analyses
(The CNA Corporation)
- Institute for Defense Analyses Communications and Computing FFRDC
(Institute for Defense Analyses)
- Institute for Defense Analyses Studies and Analyses FFRDC
(Institute for Defense Analyses)
- National Defense Research Institute
(RAND Corporation)
- Project Air Force
(RAND Corporation)

DEPARTMENT OF ENERGY

Administered by universities and colleges

- Ames Laboratory
(Iowa State University of Science and Technology)
- Argonne National Laboratory
(University of Chicago and Argonne Universities Association)
- Ernest Orlando Lawrence Berkeley National Laboratory
(University of California)
- Fermi National Accelerator Laboratory
(Universities Research Association, Inc.)
- Lawrence Livermore National Laboratory
(University of California)
- Los Alamos National Laboratory
(University of California)
- Princeton Plasma Physics Laboratory
(Princeton University)
- Stanford Linear Accelerator Center
(Stanford University)

- Thomas Jefferson National Accelerator Facility
(Southeastern Universities Research Association)

Administered by industrial firms

- Idaho National Engineering and Environmental Laboratory
(Bechtel BWXT Idaho, LLC)
- Sandia National Laboratories
(Sandia Corporation, a subsidiary of Lockheed Martin Corporation)
- Savannah River Technology Center
(Westinghouse Savannah River Company)

Administered by other nonprofit organizations

- Brookhaven National Laboratory
(Brookhaven Science Associates, Inc.)
- National Renewable Energy Laboratory
(Midwest Research Institute)
- Oak Ridge National Laboratory
(UT-Battelle, LLC)
- Pacific Northwest National Laboratory
(Battelle Memorial Institute)

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Administered by industrial firms

- National Cancer Institute at Frederick
(Science Applications International Corporation)

DEPARTMENT OF TRANSPORTATION

Administered by other nonprofit institutions

- Center for Advanced Aviation System Development
(MITRE Corporation)

DEPARTMENT OF THE TREASURY

Administered by other nonprofit institutions

- Internal Revenue Service FFRDC
(MITRE Corporation)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Administered by universities and colleges

- Jet Propulsion Laboratory
(California Institute of Technology)

NATIONAL SCIENCE FOUNDATION

Administered by universities and colleges

- National Astronomy and Ionosphere Center
(Cornell University)
- National Center for Atmospheric Research
(University Corporation for Atmospheric Research)
- National Optical Astronomy Observatories
(Association of Universities for Research in Astronomy, Inc.)
- National Radio Astronomy Observatory
(Associated Universities, Inc.)

Administered by other nonprofit institutions

- The Science and Technology Policy Institute
(RAND Corporation)

NUCLEAR REGULATORY COMMISSION

Administered by other nonprofit institutions

- Center for Nuclear Waste Regulatory Analyses
(Southwest Research Institute)

FFRDC = federally financed research and development center.

APPENDIX C: SURVEY INSTRUMENTS



NATIONAL SCIENCE FOUNDATION
ARLINGTON, VA 22230

**SURVEY OF RESEARCH AND DEVELOPMENT EXPENDITURES
AT UNIVERSITIES AND COLLEGES, FY 2004**

Please submit your survey data by January 31, 2005.

The Web address for submitting your data:

<http://www.qrc.com/expweb>

Or, mail this form to:

ORC Macro
7315 Wisconsin Avenue, Suite 400W
Bethesda, MD 20814-3202

Or, e-mail your response to:

expweb@qrc.com

The Web password and user ID were e-mailed to each institution. If you have questions about this or any other issue, please call: Survey Support at ORC Macro, 1-866-349-8626. For general survey questions, you may also contact Richard Bennof of NSF at rbennof@nsf.gov or (703) 292-7783.

Your cooperation in returning the survey questionnaire promptly is very important. This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. Your response is entirely voluntary; your failure to provide some or all of the information will in no way adversely affect your institution.

Report data for your institution's 2004 fiscal year. All financial data should be reported in thousands of dollars; for example, an expenditure of \$25,342 should be rounded to the nearest thousand dollars and reported as \$25.

Where exact data are not available, estimates are acceptable. Your estimates will be better than ours.

Include data for branches and all organizational units of your institution, such as medical schools and agricultural experiment stations. Data on research centers and facilities administered by your institution should be included. In addition, include hospitals or clinics owned, operated, or controlled by universities, and integrated operationally with the clinical programs of your medical schools.

NOTE: Academic institutions should exclude data for federally funded research and development centers (FFRDCs). Data for these facilities are collected separately.

It is estimated that response to this survey will require 22 hours. If you wish to comment on this burden, please contact Suzanne H. Plimpton of NSF at (703) 292-7556, or e-mail splimpto@nsf.gov.

Scope:

This survey collects data on expenditures by universities and colleges for separately budgeted research and development (R&D). Definitions used are compatible with OMB Circular A-21, revised May 10, 2004. Items 1 and 2 ask for *current fund expenditures* by source of funds and by field of science and engineering. Item 3 collects data on that *portion of current fund expenditures* reported in Items 1 and 2 that went for the purchase of scientific and engineering research equipment. Item 2A asks for current fund expenditures in non-science and engineering fields, and Item 2B requests information on the Federal Government agency sources of current fund expenditures by field of science and engineering.

Definitions:

Research and Development (R&D). R&D for purposes of this survey is the same as "organized research" as defined in Section B.1.b. of OMB Circular A-21 (revised). It includes all R&D activities of an institution that are separately budgeted and accounted for. R&D includes both "sponsored research" activities (sponsored by Federal and non-Federal agencies and organizations) and "university research" (separately budgeted under an internal application of institutional funds).

Research is systematic study directed toward fuller knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the investigator.

Development is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes.

Current fund expenditures. These are expenditures of funds available for current operations. Such expenditures include all unrestricted gifts and restricted current funds to the extent that such funds were expended for current operating purposes.

Please circle the month in which your institution's fiscal year begins:

Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec

Person who submitted this form:

Name:	Telephone number:
Title:	E-mail:
Address:	Fax:
	Date submitted:

Person who prepared this form (if different from above):

Name:	Telephone number:
Title:	E-mail:
	Fax:

Instructions for Items 1 and 2

Separately budgeted research and development (R&D) includes all funds expended for activities specifically organized to produce research outcomes and commissioned by an agency either external to the institution or separately budgeted by an organizational unit within the institution. *Include* research equipment purchased under research project awards from “current fund” accounts. Also *include* research funds for which an outside organization, educational or other, is a subrecipient. *Exclude* training grants, public service grants, demonstration projects, clinical trials, and departmental research expenditures that are not separately budgeted. Also, *exclude* any R&D expenditures in the fields of education, law, humanities, music, the arts, physical education, library science, and all other non-science fields. These non-science and engineering R&D expenditures are reported in Item 2A. Allocate funding to the original sources whenever possible, as specified below. If this information is unknown, report the proximate funding source.

Total

- a. **Federal Government.** Report awards for R&D (including direct and reimbursed indirect costs) by all agencies of the Federal Government.
- b. **State and local governments.** Include funds for R&D (including direct and reimbursed indirect costs) from State, county, municipal, or other local governments and their agencies. Include here State funds that support R&D at agricultural and other experiment stations.
- c. **Industry.** Include all awards for R&D (including direct and reimbursed indirect costs) from profit-making organizations, whether engaged in production, distribution, research, service, or other activities. Do not include awards from nonprofit foundations financed by industry; these should be included under “All other sources.”
- d. **Institution funds.** Report funds, *including* related indirect costs, that your institution spent for R&D activities from the following unrestricted sources: general-purpose State or local government appropriations; general-purpose awards from industry, foundations, or other outside sources; tuition and fees; endowment income; gifts; and other institutional funds. In addition, estimate your institution’s on-campus and off-campus unreimbursed indirect costs associated with externally funded R&D projects, including mandatory and voluntary cost sharing. To estimate unreimbursed indirect costs, preferably on a project-by-project basis, use your appropriate on-campus or off-campus ***negotiated research indirect cost rate(s)*** multiplied by the corresponding base(s) minus actual indirect cost recovery.
- e. **All other sources.** Include awards for R&D (including direct and reimbursed indirect costs) from nonprofit foundations and voluntary health agencies as well as from all other sources not elsewhere classified. Also include gifts from individuals that are restricted by the donor to research. Funds from foundations that are affiliated with, or granted solely to your institution, should be included under “Institution funds.” Funds for R&D received from a health agency that is a unit of a State or local government should be included under “State and local governments.”

Instructions for Items 1A and 1B

For Federal awards, **subrecipient** means the non-Federal entity that expends Federal awards received from a pass-through entity to carry out a Federal program, but does not include an individual that is a beneficiary of such a program. A subrecipient may also be a recipient of other Federal awards directly from a Federal awarding agency.

—OMB Circular A-133, Section .105 (revised June 27, 2003) For awards from non-Federal sources, the subrecipient definition is analogous to the Federal one.

Higher Education [subrecipients] refers to all academic colleges and universities and all units owned, operated, and controlled by such institutions.

Item 1. How much of your current fund expenditures for separately budgeted research and development in the sciences and engineering (including indirect costs) came from the following sources in FY 2004?

Source of Funds	Line No.	(1) Total (Dollars in thousands)	(2) What Percentage of Federal & Total Funds Are Basic Research
a. Federal Government	1110	\$	_____ %
b. State and local governments	1125		Basic research is directed toward an increase of knowledge; it is research where the primary aim of the investigator is a fuller knowledge or understanding of the subject under study rather than a specific application thereof.
c. Industry	1150		
d. Institution funds (sum of lines 1161 and 1162)	1160		
(1) Institutionally financed organized research	1161		
(2) Unreimbursed indirect costs and related sponsored research	1162		
e. All other sources	1175		
f. TOTAL (sum of a through e)	1100	\$	_____ %

BASIC RESEARCH
Please provide the percentages of Federal and total expenditures that are basic research (not applied research) as defined in column (2).

CONFIDENTIALITY
Information received from individual institutions in lines 1161 and 1162, or estimates for basic research expenditures, will NOT be published or released; only aggregate totals will appear in tabulations.

Item 1A. How much of your total (item 1, line f) and Federal (item 1, line a) R&D expenditures were passed through by your institution to subrecipients? (If all information is not available, report those amounts that are available. Exclude vendor relationships.)

Subrecipients	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
To higher education subrecipients	1910		
To other subrecipients	1920		
To all subrecipients	1900	\$	\$

Item 1B. How much of your total (item 1, line f) and Federal (item 1, line a) R&D expenditures did your institution receive as a subrecipient? (If all information is not available, report those amounts that are available. Exclude vendor relationships.)

Your Institution as a Subrecipient	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
From higher education pass-through entities	1610		
From other pass-through entities	1620		
From all pass-through entities	1600	\$	\$

Item 2. Allocate your FY 2004 current fund expenditures (total and federally financed) for separately budgeted research and development (including indirect costs) by field of science and engineering

Please note that total R&D expenditures in line j, column (1) should be the same as reported in Item 1, line f.

Total Federal R&D expenditures in line j, column (2) should be the same as reported in Item 1, line a.

Please see pages 8 and 9 for the NSF/NCES Crosswalk of Discipline Codes.

Field of Science and Engineering	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
a. Engineering (Total)	1410	\$	\$
(1) Aeronautical & astronautical	1411		
(2) Bioengineering/biomedical engineering	1418		
(3) Chemical	1412		
(4) Civil	1413		
(5) Electrical	1414		
(6) Mechanical	1415		
(7) Metallurgical & materials	1417		
(8) Other	1416		
b. Physical Sciences (Total)	1420		
(1) Astronomy	1421		
(2) Chemistry	1422		
(3) Physics	1423		
(4) Other	1424		
c. Environmental Sciences (Total)	1430		
(1) Atmospheric	1431		
(2) Earth sciences	1432		
(3) Oceanography	1433		
(4) Other	1434		
d. Mathematical Sciences (Total)	1441		
e. Computer Sciences (Total)	1442		
f. Life Sciences (Total)	1450		
(1) Agricultural	1451		
(2) Biological	1452		
(3) Medical	1453		
(4) Other	1454		
g. Psychology (Total)	1460		
h. Social Sciences (Total)	1470		
(1) Economics	1471		
(2) Political science	1472		
(3) Sociology	1473		
(4) Other	1474		
i. Other Sciences, not elsewhere classified (Total)	1480		
j. Total (sum of a through i)	1400	\$	\$

Please EXCLUDE from your response any R&D expenditures in the fields of education, law, humanities, music, the arts, physical education, library science, and all other non-science and engineering fields. These non-science and engineering R&D expenditures are reported in Item 2A.

Item 3. Allocate the portion of your FY 2004 current fund expenditures (total and federally financed) for separately budgeted research and development that went for the purchase of research equipment by field of science and engineering

Please report that portion of current fund expenditures reported in items 1 and 2 that went for the purchase of research equipment. This includes all research equipment purchased under sponsored research project awards from current fund accounts.

For column (1), report current fund expenditures for R&D from all sources: Federal Government, State, county, municipal or other governments and their agencies (including State funds supporting R&D at agricultural experiment stations); industry; institution funds; and private foundations and voluntary health agencies, individuals, and associations.

For column (2), include funds from awards for R&D sponsored by agencies of the Federal Government.

Please see pages 8 and 9 for the NSF/NCES Crosswalk of Discipline Codes.

Field of Science and Engineering	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
a. Engineering (Total)	1810	\$	\$
(1) Aeronautical & astronautical	1811		
(2) Bioengineering/biomedical engineering	1818		
(3) Chemical	1812		
(4) Civil	1813		
(5) Electrical	1814		
(6) Mechanical	1815		
(7) Metallurgical & materials	1817		
(8) Other	1816		
b. Physical Sciences (Total)	1820		
(1) Astronomy	1821		
(2) Chemistry	1822		
(3) Physics	1823		
(4) Other	1824		
c. Environmental Sciences (Total)	1830		
(1) Atmospheric	1831		
(2) Earth sciences	1832		
(3) Oceanography	1833		
(4) Other	1834		
d. Mathematical Sciences (Total)	1841		
e. Computer Sciences (Total)	1842		
f. Life Sciences (Total)	1850		
(1) Agricultural	1851		
(2) Biological	1852		
(3) Medical	1853		
(4) Other	1854		
g. Psychology (Total)	1860		
h. Social Sciences (Total)	1870		
(1) Economics	1871		
(2) Political science	1872		
(3) Sociology	1873		
(4) Other	1874		
i. Other Sciences, not elsewhere classified (Total)	1880		
j. Total (sum of a through i)	1800	\$	\$

Current fund expenditures in each field for scientific research equipment is that PORTION or SUBTOTAL of the amounts reported in the corresponding cells of the "Total" and "Federal" columns in Item 2.

Item 2A. What were your current fund expenditures (total and federally financed) for separately budgeted research and development (including indirect costs) for non-science and engineering fields in FY 2004?

NOTE: For rows 2A(a) through 2A(i), report only data that have not been reported in Items 1 and 2 on this survey. Non-S&E R&D should **include** any separately budgeted scholarly and creative activity, but should **exclude** training.

Non-science & Engineering Fields	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
a. Education	1510	\$	\$
b. Law	1520		
c. Humanities	1530		
d. Visual & Performing Arts	1540		
e. Business and Management	1550		
f. Communications, Journalism, and Library Science	1560		
g. Social Work	1570		
h. Other Non-S&E Fields (please specify)	1580		
i. Total, Non-S&E Fields (sum of a through h)	1500		
j. Total, S&E (from Item 2, line j)	1400		
k. Grand Total (sum of i and j)	2000	\$	\$

NOTE: If you cannot provide expenditures by non-S&E fields, please provide the Total (column 1, line i) and Federal Total (column 2, line i).

CROSSWALK BETWEEN NSF NON-SCIENCE & ENGINEERING FIELDS AND THE NATIONAL CENTER FOR EDUCATION STATISTICS (NCES) CLASSIFICATION OF INSTRUCTIONAL PROGRAMS (CIP)

Questionnaire Field	CIP Code	CIP Program Category Title
Education	13.xx	Education
Law	22.xx	Law and Legal Studies
Humanities	16.xx	Foreign Languages & Literature
	23.xx	English Language and Literature/Letters
	24.xx	Liberal Arts & Sciences, General Studies & Humanities
	38.xx	Philosophy and Religion
	39.xx	Theological Studies and Religious Vocations
	45.08	History (except History of Science)
Visual & Performing Arts	50.xx	Visual and Performing Arts
Business and Management	52.xx	Business Management and Administrative Services
	08.xx	Marketing Operations/Marketing Distribution
Communications, Journalism, and Library Science	09.xx	Communications
	25.xx	Library Science
	10.xx	Communications Technologies
Social Work	44.07	Social Work
Other Non-S&E Fields	31.xx	Parks, Recreation, Leisure and Fitness Studies
	29.xx	Military Technologies

Item 2B. What were the Federal Government agency sources for your FY 2004 federally financed current fund expenditures for separately budgeted research and development (including indirect costs) (item 2, column 2) by field of science and engineering?

Federally financed R&D expenditures in line j, column (1) should be the same as reported in Item 1, line a.

Allocate funding to the original sources whenever possible. If that information is unknown, report the proximate funding source.

KEY: USDA, Department of Agriculture; DoD, Department of Defense; DOE, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NSF, National Science Foundation. "Other" Federal sources include all other Federal agencies.

		(Dollars in thousands)							
Field of Science and Engineering	Line No.	Total Federal	Specific Federal Agencies						Other
			USDA	DoD	DOE	HHS*	NASA	NSF	
a. Engineering (Total)	1410	\$							
(1) Aeronautical & astronautical	1411								
(2) Bioengineering/biomedical engineering	1418								
(3) Chemical	1412								
(4) Civil	1413								
(5) Electrical	1414								
(6) Mechanical	1415								
(7) Metallurgical & materials	1417								
(8) Other	1416								
b. Physical Sciences (Total)	1420								
(1) Astronomy	1421								
(2) Chemistry	1422								
(3) Physics	1423								
(4) Other	1424								
c. Environmental Sciences (Total)	1430								
(1) Atmospheric	1431								
(2) Earth sciences	1432								
(3) Oceanography	1433								
(4) Other	1434								
d. Mathematical Sciences (Total)	1441								
e. Computer Sciences (Total)	1442								
f. Life Sciences (Total)	1450								
(1) Agricultural	1451								
(2) Biological	1452								
(3) Medical	1453								
(4) Other	1454								
g. Psychology (Total)	1460								
h. Social Sciences (Total)	1470								
(1) Economics	1471								
(2) Political science	1472								
(3) Sociology	1473								
(4) Other	1474								
i. Other Sciences (Total)	1480								
j. Total (sum of a through i)	1400	\$							

Please EXCLUDE from your response any R&D expenditures in the fields of education, law, humanities, music, the arts, physical education, library science, and all other non-science and engineering fields. * Includes NIH.

**CROSSWALK BETWEEN NSF FIELDS OF SCIENCE & ENGINEERING AND THE
NATIONAL CENTER FOR EDUCATION STATISTICS (NCES) CLASSIFICATION OF INSTRUCTIONAL PROGRAMS**

The left-hand column shows each of the detailed fields as displayed on the questionnaire form. The right-hand column shows the NCES fields that are included within the NSF category as well as some additional illustrative disciplines. These additional disciplines are intended to be guidelines—not sharp definitions—as to what should be reported under a particular field.

Questionnaire Field	NCES Classification and Additional Illustrative Disciplines			
a. ENGINEERING (1) Aeronautical & Astronautical	14.02 Aerospace, Aeronautical, and Astronautical Engineering (also aerodynamics, space technology)			
(2) Bioengineering/ Biomedical Engineering	14.05 Bioengineering and Biomedical Engineering			
(3) Chemical	03.0509 Wood Science (also petroleum refining process) 14.07 Chemical Engineering 14.25 Petroleum Engineering 14.32 Polymer/Plastics Engineering			
(4) Civil	04.02 Architecture 14.04 Architectural Engineering 14.08 Civil Engineering 14.14 Environmental/Environmental Health Engineering (also geotechnical, hydraulic, hydrologic, sanitary and environmental, structural, transportation)			
(5) Electrical	14.09 Computer Engineering (also power engineering) 14.10 Electrical, Electronics, and Communications Engineering			
(6) Mechanical	14.11 Engineering Mechanics 14.19 Mechanical Engineering			
(7) Metallurgical & Materials	14.06 Ceramic Sciences and Eng. 14.15 Geological Engineering 14.16 Geophysical Engineering 14.18 Materials Engineering 14.20 Metallurgical Engineering 14.21 Mining and Mineral Eng. 14.28 Textile Sciences and Eng. (also welding) 14.31 Materials Science 40.0701 Metallurgy			
(8) Other	14.01 Engineering, General 14.03 Agricultural Engineering 14.12 Engineering Physics 14.13 Engineering Science 14.17 Industrial/Manufacturing Eng. 14.22 Naval Architecture and Marine Engineering 14.23 Nuclear Engineering 14.24 Ocean Engineering 14.27 Systems Engineering 14.29 Engineering Design 14.30 Eng./Industrial Management 14.99 Engineering, Other 30.06 Systems Science and Theory (also marine and ocean engineering systems)			
b. PHYSICAL SCIENCES				
(1) Astronomy	40.02 Astronomy 40.03 Astrophysics (also Gamma-ray, neutrino, optical and radio, X-ray)			
(2) Chemistry	40.05 Chemistry (also analytical, inorganic, organic, organo-metallic, pharmaceutical, physical, polymer sciences (except biochemistry))			
(3) Physics	40.08 Physics (also acoustics, atomic/molecular, chemical, condensed matter, elementary particles, nuclear structure, optics, plasma, theoretical/mathematical)			
(4) Other	40.01 Physical Sciences, General 40.0799 Miscellaneous Physical Sciences, Other 40.99 Physical Sciences, Other (used for multidisciplinary projects within physical sciences and for disciplines not requested separately)			
c. ENVIRONMENTAL SCIENCES (Earth, Atmospheric, & Ocean)				
(1) Atmospheric	40.04 Atmospheric Sciences and Meteorology (also aeronomy, extraterrestrial atmospheres, solar, weather modification)			
(2) Earth Sciences	15.1102 Surveying 40.06 Geological and Related Sciences 40.0703 Earth & Planetary Sciences 45.0702 Cartography (also engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic, isotopic, lab geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography, seismology)			
(3) Oceanography	26.0607 Marine/Aquatic Biology 40.0702 Oceanography (also biological, chemical, geological, physical)			
(4) Other	(used for multidisciplinary projects within Earth, Atmospheric, and Ocean Sciences)			
d. MATHEMATICAL SCIENCES	27.01 Mathematics, General 27.03 Applied Mathematics 27.0302 Operations Research 27.05 Mathematical Statistics 27.99 Mathematics, Other 30.08 Math./Computer Sciences (also algebra, analysis, foundations and logic, geometry, numerical analysis, topology)			

Questionnaire Field	NCES Classification and Additional Illustrative Disciplines (cont.)			
e. COMPUTER SCIENCES	11 Computer and Information Science, General 52.1201 Management Information Systems (also design, development, and application of computer capabilities to data storage and manipulation, information science)			
f. LIFE SCIENCES (1) Agricultural	01.03 Agricultural Production 01.0303 Aquaculture 01.07 International Agriculture 02.01 Agricultural Sciences 02.04 Plant Sciences 02.05 Soil Science 03 Renewable Natural Resources 04.06 Landscape Architecture (also agricultural chemistry, agronomy, animal science, conservation, fish and wildlife, forestry, horticulture)			
(2) Biological	19.05 Foods and Nutrition Studies 26.01 Biology, General 26.0202 Biochemistry 26.0203 Biophysics 26.03 Botany 26.04 Cell and Molecular Biology 26.05 Microbiology/Bacteriology 26.0601 Anatomy 26.0603 Ecology 26.0609 Nutritional Sciences 26.0610 Parasitology 26.0612 Toxicology 26.0613 Genetics, Plant and Animal 26.0614 Biometrics 26.0615 Biostatistics 26.0699 Misc. Bio. Specializations, Other 26.0701 Zoology 26.0702 Entomology 26.0704 Pathology, Human and Animal 26.0705 Pharmacology, Human and 26.0706 Physiology, Human and 26.0799 Zoology, Other Animal Animal 26.99 Biolog./Life Sciences, Other 51.1301 Medical Anatomy 51.1302 Medical Biochemistry 51.1307 Medical Immunology 51.1308 Medical Microbiology 51.1312 Medical Pathology 51.1313 Medical Physiology 51.1314 Medical Toxicology 51.2203 Epidemiology (also allergies and immunology, biogeography, biotechnology, pathology, physical anthropology, virology)			
(3) Medical	26.0608 Neurosciences 26.0611 Radiation Biology/Radiobiol. 51.04 Dentistry 51.1201 Medicine, General 51.1399 Med. Basic Sciences, Other 51.1610 Nursing Psychiatry/ 51.17 Optometry 51.19 Osteopathic Medicine Mental Health 51.20 Pharmacy 51.21 Podiatry 51.22 Public Health 51.24 Veterinary Medicine ¹ Anesthesiology Cardiology Colon and Rectal Surgery Dental/Oral Surgery Dermatology Family Medicine Gastroenterology General Surgery Geriatric Medicine Hematology Internal Medicine Medical Programs, Other Neonatal-Perinatal Medicine Neurological Surgery Neurology Nuclear Medicine Nuclear Radiology Obstetrics and Gynecology Oncology Ophthalmology Orthopedics/Orthopedic Surgery Otorhinolaryngology Pediatrics Pharmacology Physical and Rehabilitative Medicine Plastic Surgery Preventive Medicine Psychiatry Thoracic Surgery Urology (exclude all residency programs)			
(4) Other	30.11 Gerontology 51.02 Communication Disorders 51.07 Health and Medical 51.10 Health and Medical Laboratory Sciences and Services Administrative Services Technologies 51.16 Nursing Technologies 51.2306 Occupational Therapy 51.2308 Physical Therapy 51.2399 Rehab./Therapeutic Services 51.99 Health Professions and Related Services, Other (used for multidisciplinary projects within life sciences)			
g. PSYCHOLOGY	42.01 Psychology, General 42.02 Clinical Psychology 42.17 School Psychology 51.2301 Art Therapy (also animal behavior, educational, experimental, human development and personality, social)			
h. SOCIAL SCIENCES (1) Economics	01.0103 Agricultural Economics 45.06 Economics 52.06 Business/Managerial Econ. (also applied, development, econometrics, industrial, international, labor, public finance and fiscal policy, quantitative, resource)			
(2) Political Science	44.04 Public Administration 44.05 Public Policy Analysis 44.99 Public Admin. and Services, Other 45.09 International Relations and Affairs 45.10 Political Science and Government (also comparative government, legal systems, political theory, regional studies)			
(3) Sociology	45.02 Anthropology (Social and 45.05 Demography and 45.11 Sociology Cultural only) Population Studies (also comparative and historical, complex organizations, cultural and social structure, group interactions, social problems and welfare theory)			
(4) Other	04.03 City/Urban, Community, and 05 Area and Ethnic Studies 16.0102 Linguistics Regional Planning 43.01 Crim'l. Justice & Corrections 44.02 Community Services 45.01 Social Sciences, General 45.03 Archaeology 45.07 Geography 45.12 Urban Studies/Affairs 45.99 Social Sciences, Other (also history of science, socioeconomic geography)			
i. OTHER SCIENCES, n.e.c.	(used when the multidisciplinary and interdisciplinary aspects make the classification under one primary field impossible)			

¹ Institutions with schools of veterinary medicine should distribute R&D expenditures among the appropriate disciplines (agricultural, biological, and medical) rather than only in medical sciences.

Questions and Answers

This document answers common questions about the academic R&D expenditures survey.

DATA USES AND AVAILABILITY

How are these data typically used?

Congress has directed NSF to provide “a central clearinghouse for the collection, interpretation, and analysis of data on scientific and engineering resources and to provide a source of information for policy formulation by other agencies of the Federal Government....” As part of its response, the Division of Science Resources Statistics (SRS) conducts annual surveys of the research and development (R&D) expenditures at the Nation’s universities and colleges.

Congress and Federal and State government planners use the data for science policy analysis, national and international studies, legislative hearing reports, budget formulation sessions, and other measurements of the adequacy of the Nation’s research base. Academic institutions use the information for policy analysis, publicity, and other purposes. Industrial firms often request data to prepare for on-campus recruiting. The data often appear in higher education studies and publications.

How are the data made available?

NSF’s annual *Academic Research and Development Expenditures Survey* compiles detailed data in a comprehensive document, available on request. Institutional profiles show trend data for responses at the institutional level from all academic science and engineering (S&E) surveys.

Survey data are now available on the Web. To obtain the most recent survey publications and data tables, data files, institutional profiles, and access to WebCASPAR, the Web-based Computer-Aided Science Policy Analysis and Research database system, direct your browser to <http://www.nsf.gov/sbe/srs/stats.htm>.

FIELD OF SCIENCE CLASSIFICATIONS

How should I assign field classifications for R&D performed in multidisciplinary centers?

Multidisciplinary research should be categorized by individual research project according to the nature of the research performed. When individual projects encompass multiple fields of S&E, prorate expenditures to report the proportions of each discipline involved. Do not lump funds together into “other” field categories unless the type of research is actually defined as “other.” NSF recommends crediting such research to the appropriate S&E discipline when the project first begins.

How should I allocate research dollars spent for computing or supercomputing services?

Report research dollars spent for computer usage to the individual fields of science and engineering for which the R&D is performed. Do not report these funds in computer science, unless computer science research was performed.

What fields should be excluded from the science and engineering totals?

Exclude fields that are considered to be non-science—education, law, humanities, business, music, the arts, library science, and physical education. Note that you would report separately budgeted R&D for the philosophy of science (a science category), but not philosophy (one of the humanities). The NSF/NCES Crosswalk included with the questionnaire lists all S&E fields.

BASIC RESEARCH

How should basic research be calculated?

The percentage of basic research should be defined at the individual grant level by each principal researcher. Where this is not possible, grants should be reviewed by each department head or other relevant research coordinator.

SOURCES OF FUNDING

Should faculty practice plan income be included in the survey?

Expenditures for faculty practice plans are not considered research and should not be included. If income from such plans is used to fund other research and the funds are separately budgeted, then the expenditures should be included in institutional funds.

How much of our administrative costs can be reported in the survey?

Administrative salaries and other administrative costs, particularly at your organized research units, can be reported only if funded through projects specifically restricted and budgeted for research. General administrative costs should not be reported.

How should I report institutional funds?

All research dollars reported for your institution should be funds that are separately budgeted and restricted for research, such as sponsored research accounts or general accounts that are specifically budgeted for research. Do not include funds not specifically budgeted for research.

If your institution does not track underrecovery of indirect costs, use the underrecovery formula included in the questionnaire instructions. Do not forget to include and distribute unreimbursed indirect costs by detailed field in survey Item 2.

Be sure to report all indirect costs related to your institutional funds.

Can I report donated research equipment in the survey?

Since donated research equipment is not typically captured in university accounting systems, the value of donated research equipment should not be reported.

COLLABORATIVE RESEARCH ARRANGEMENTS

Should I report expenditures received through collaborative research ventures with other institutions?

Report only what your institution actually expends and accounts for when participating in joint research ventures.

How do I distinguish between being a subrecipient of pass-through funds and being a subcontractor of R&D services?

For Federal awards, a subrecipient is an entity that receives Federal financial assistance from the State or any other entity to administer a program (OMB Circular A-133, Section .210 (revised)). The subrecipient actually administers or controls the program, as opposed to the subcontractor who contracts for a specific service on a per-unit basis. A key factor in determining if a subrecipient arrangement exists is determining if the entity assumes the responsibility to administer the program. Subrecipients tend to be the co-authors of publications, writers of technical reports discussing findings, inventors, etc. Unlike a subrecipient relationship, a subcontract is a procurement of goods and/or services. Payments to subcontractors are expenditures for services, not expenditures for research, and are different from pass-through funds to subrecipients.

ORGANIZATIONAL UNITS

Which organizational units should I include in the survey?

Include research conducted through units that are considered part of your institution's organizational structure. For example, report expenditures from branch campuses, medical schools, agricultural stations, research centers and institutes, and any other units whose expenditures are separately budgeted **and are accounted for by your institution's financial system**. Exclude R&D expenditures performed by federally funded research and development centers (FFRDCs), nonprofit institutions, and private laboratories. Do not report salaries of faculty doing research at outside institutions unless your institution accounts for the funding of that research.

For more information, contact Survey Support at 1-866-349-8626 or expweb@qrc.com. For general questions regarding survey procedures and data reporting, contact Richard Bennof of NSF at rbennof@nsf.gov or (703) 292-7783.



NATIONAL SCIENCE FOUNDATION
ARLINGTON, VA 22230

SURVEY OF RESEARCH AND DEVELOPMENT EXPENDITURES AT FFRDCS FY 2004

Please submit your survey data by January 31, 2005.

The Web address for submitting your data:

<http://www.qrc.com/expweb>

Or, mail this form to:

ORC Macro
7315 Wisconsin Avenue, Suite 400W
Bethesda, MD 20814-3202

Or, e-mail your response to:

expweb@qrc.com

The Web password and user ID were e-mailed to each institution. If you have any questions about this or any other issue, please call: Survey Support at ORC Macro, 1-866-349-8626. For general survey questions, you may also contact John Jankowski of NSF at jjankows@nsf.gov or (703) 292-7781.

Your cooperation in returning the survey questionnaire promptly is very important. This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. Your response is entirely voluntary; your failure to provide some or all of the information will in no way adversely affect your institution.

Report data for your institution's 2004 fiscal year. All financial data requested on this form should be reported in thousands of dollars; for example, an expenditure of \$25,342 should be rounded to the nearest thousand dollars and reported as \$25.

Where exact data are not available, estimates are acceptable. Your estimates will be better than ours.

It is estimated that response to this survey will require 4 hours. If you wish to comment on this burden, please contact Suzanne H. Plimpton of NSF at (703) 292-7556, or e-mail splimpto@nsf.gov.

Scope:

This survey contains one question which requests data on *current fund expenditures* by source of funds for separately budgeted research and development (R&D). Definitions used are compatible with OMB Circular A-21, revised May 10, 2004.

Definitions:

Research and Development (R&D). R&D for purposes of this survey is the same as "organized research" as defined in Section B.1.b. of OMB Circular A-21 (revised). It includes all R&D activities that are separately budgeted and accounted for.

Research is systematic study directed toward fuller knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the investigator.

Development is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes.

Current fund expenditures. These are expenditures of funds available for current operations. Such expenditures include all unrestricted gifts and restricted current funds to the extent that such funds were expended for current operating purposes.

Please circle the month in which your institution's fiscal year begins:

Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec

Person who submitted this form:

Name:	Telephone number:
Title:	E-mail:
Address:	Fax:
	Date submitted:

Person who prepared this form (if different from above):

Name:	Telephone number:
Title:	E-mail:
	Fax:

Instructions

Separately budgeted research and development (R&D) includes all funds expended for activities specifically organized to produce research outcomes and commissioned by an agency either external to the institution or separately budgeted by an organizational unit within the institution. *Include* research equipment purchased under research project awards from “current fund” accounts. Also *include* research funds for which an outside organization is a subrecipient. *Exclude* training grants, public service grants, demonstration projects, clinical trials, and research expenditures that are not separately budgeted. Allocate funding to the original sources whenever possible, as specified below. If this information is unknown, report the proximate funding source.

Total

- a. **Federal Government.** Report awards for R&D (including direct and reimbursed indirect costs) by all agencies of the Federal Government.
- b. **State and local governments.** Include funds for R&D (including direct and reimbursed indirect costs) from State, county, municipal, or other local governments and their agencies.
- c. **Industry.** Include all awards for R&D (including direct and reimbursed indirect costs) from profit-making organizations, whether engaged in production, distribution, research, service, or other activities. Do not include awards from nonprofit foundations financed by industry; these should be included under “All other sources.”
- d. **Institution funds.** Report funds, *including* related indirect costs, that your institution spent for R&D activities from the following unrestricted sources: general-purpose awards from industry, foundations, or other outside sources, and other institutional funds. In addition, estimate your institution’s unreimbursed indirect costs associated with externally funded R&D projects, including mandatory and voluntary cost sharing. To estimate unreimbursed indirect costs, preferably on a project-by-project basis, use your appropriate **negotiated research indirect cost rate(s)** multiplied by the corresponding base(s) minus actual indirect cost recovery.
- e. **All other sources.** Include awards for R&D (including direct and reimbursed indirect costs) from nonprofit foundations and voluntary health agencies as well as from all other sources not elsewhere classified. Also include gifts from individuals that are restricted by the donor to research. Funds from foundations that are affiliated with, or granted solely to your institution, should be included under “Institution funds.” Funds for R&D received from a health agency that is a unit of a State or local government should be included under “State and local governments.”

How much of your current fund expenditures for separately budgeted research and development in the sciences and engineering (including indirect costs) came from the following sources in FY 2004?

Source of Funds	Line No.	(1) Total (Dollars in thousands)	(2) What Percentage of Federal & Total Funds Are Basic Research
a. Federal Government	1110	\$	_____ %
b. State and local governments	1125		Basic research is directed toward an increase of knowledge; it is research where the primary aim of the investigator is a fuller knowledge or understanding of the subject under study rather than a specific application thereof.
c. Industry	1150		
d. Institution funds (sum of lines 1161 and 1162)	1160		
(1) Institutionally financed organized research	1161		
(2) Unreimbursed indirect costs and related sponsored research	1162		
e. All other sources	1175		
f. TOTAL (sum of a through e)	1100	\$	_____ %

BASIC RESEARCH
Please provide the percentages of Federal and total expenditures that are basic research (not applied research) as defined in column (2).

CONFIDENTIALITY
Information received from individual institutions in lines 1161 and 1162, or estimates for basic research expenditures, will NOT be published or released; only aggregate totals will appear in tabulations.