

Appendix table 4-21

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**Federal funds for industrial R&D performance in United States, by industry and company size: 2001–05**

(Millions of dollars)

Industry/size of company	NAICS code	2001	2002	2003	2004	2005
All industries.....	21–23, 31–33, 42, 44–81	16,899	16,401	17,798	20,266	21,909
Manufacturing industries.....	31–33	11,484	10,745	13,133	15,401	15,635
Food.....	311	0	D	D	5	6
Beverage and tobacco products.....	312	0	0	0	0	0
Textiles, apparel, and leather.....	313–16	D	D	D	3	5
Wood products.....	321	0	D	D	D	D
Paper, printing, and support activities.....	322, 323	D	D	D	D	D
Petroleum and coal products.....	324	D	D	D	9	D
Chemicals.....	325	180	246	307	D	169
Basic chemicals.....	3251	42	72	70	80	98
Resin, synthetic rubber, fibers, and filament.....	3252	D	13	16	16	15
Pharmaceuticals and medicines.....	3254	0	D	D	33	41
Other chemicals.....	Other 325	D	D	D	D	15
Plastics and rubber products.....	326	D	D	35	D	12
Nonmetallic mineral products.....	327	11	D	4	5	6
Primary metals.....	331	6	12	12	21	22 i
Fabricated metal products.....	332	54	104	45	47	52
Machinery.....	333	67	62	80	105	109
Computer and electronic products.....	334	5,848	5,470	6,506	7,605	D
Computers and peripheral equipment.....	3341	D	25	27 i	27	53
Communications equipment.....	3342	298	215	266	D	D
Semiconductor and other electronic components.....	3344	148	48	28	D	122
Navigational, measuring, electromedical, and control instruments.....	3345	5,382	5,180	6,180	7,332	6,879
Other computer and electronic products.....	Other 334	D	1	6	3	23
Electrical equipment, appliances, and components.....	335	301 i	61	71	42	103
Transportation equipment.....	336	4,961	4,692	5,990	D	D
Motor vehicles, trailers, and parts.....	3361–63	D	D	D	67	D
Aerospace products and parts.....	3364	3,785	4,306	5,356	3,862	4,076
Other transportation equipment.....	Other 336	D	D	D	D	D
Furniture and related products.....	337	0	7	D	2	*
Miscellaneous manufacturing.....	339	25	44	47	39	82
Medical equipment and supplies.....	3391	D	D	17	30	31
Other miscellaneous manufacturing.....	Other 339	D	D	31	10	51
Nonmanufacturing industries.....	21–23, 42, 44–81	5,415	5,656	4,665	4,865	6,274
Mining, extraction, and support activities.....	21	D	D	D	D	D
Utilities.....	22	19	D	D	26	30
Construction.....	23	1	*	79	15	D
Wholesale trade.....	42	NA	D	122	D	D
Retail trade.....	44, 45	NA	0	26	0	D
Transportation and warehousing.....	48, 49	72	D	*	D	D
Information.....	51	D	106	D	307	219
Publishing.....	511	44	53	D	D	60
Newspaper, periodical, book, and database.....	5111	0	0	*	D	27
Software.....	5112	44	53	D	D	33
Broadcasting and telecommunications.....	513	D	D	0	0	0
Telecommunications.....	5133	D	D	0	0	0
Other broadcasting and telecommunications.....	Other 513	NA	NA	0	0	0
Telecommunications.....	517	NA	NA	NA	NA	0
Wired and wireless (except satellite) telecommunications carriers.....	5171, 5172	NA	NA	NA	NA	0
Satellite telecommunications.....	5174	NA	NA	NA	NA	0
Other telecommunications.....	Other 517	NA	NA	NA	NA	0
Internet service providers, Web search portals, and data processing services.....	518	NA	NA	NA	NA	159
Internet service providers and Web search portals.....	5181	NA	NA	NA	NA	0
Data processing, hosting, and related services.....	5182	NA	NA	NA	NA	159
Other information.....	Other 51	D	D	D	D	0
Finance, insurance, and real estate.....	52, 53	D	0	0	0	0
Professional, scientific, and technical services.....	54	5,065	5,412	4,237	4,464	5,839
Architectural, engineering, and related services.....	5413	1,021	1,337	1,898	1,970	2,239
Computer systems design and related services.....	5415	498	1,590	419	378	545

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(Millions of dollars)

Industry/size of company	NAICS code	2001	2002	2003	2004	2005
Scientific R&D services .....	5417	3,352	2,299	1,886	1,972	2,826
Other professional, scientific, and technical services .....	Other 54	194	186	34	144	229
Management of companies and enterprises <sup>a</sup> .....	55	0	0	0	NA	NA
Health care services .....	621–23	29	D	36	5	7
Other nonmanufacturing .....	56, 61, 624, 71, 72, 81	38	D	60 i	19	90
<b>Company size (employees)</b>						
All companies .....	na	16,899	16,401	17,798	20,266	21,909
5–24 .....	na	653	789	754	685	1,076
25–49 .....	na	201	259	910	612	675
50–99 .....	na	548	463	559	608	646
100–249 .....	na	903	606	636	1,058	951
250–499 .....	na	560	686	668	547	411
500–999 .....	na	627	531	759	762	895
1,000–4,999 .....	na	608	985	1,088	493	1,364
5,000–9,999 .....	na	1,651	1,574	1,101	2,018	620
10,000–24,999 .....	na	904	1,226	1,266	1,561	1,918
25,000 or more .....	na	10,243	9,282	10,059	11,923	13,352

\* = ≤\$500,000; D = suppressed to avoid disclosure of confidential information; i = imputation of >50%; NA = not available; na = not applicable

NAICS = North American Industry Classification System (1997 Rev. used to classify 2001–04 statistics; 2002 Rev. used for 2005)

<sup>a</sup>Estimates for management of companies and enterprises (NAICS 55), shown separately for 2001–03, included in other manufacturing for 2004 and 2005.

NOTES: R&D is industrial R&D performed within company facilities funded by federal government. Excluded are R&D not performed within company (e.g., R&D contracted out to other organizations) and R&D not performed within 50 United States or District of Columbia (e.g., R&D performed outside United States by foreign subsidiaries or other foreign organizations). Totals exclude R&D at industry-administered federally funded research and development centers. For more technical information, see <http://www.nsf.gov/statistics/srvyindustry>, accessed 17 April 2007.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Industrial Research and Development.