

Current expenditures for research equipment at academic institutions, by field: Selected years, 1983–2003

Field	1983	1986	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Millions of current dollars															
All fields.....	450	783	1,013	1,025	1,034	1,042	1,107	1,239	1,214	1,288	1,294	1,325	1,434	1,509	1,697	1,808
Science	371	637	793	791	809	824	857	967	929	988	996	1,040	1,128	1,177	1,334	1,425
Physical sciences	81	163	191	190	198	207	207	240	234	243	254	248	250	240	274	296
Astronomy.....	4	6	13	14	14	17	20	22	21	26	25	29	25	15	19	19
Chemistry	32	59	73	69	70	75	78	81	88	90	91	102	103	100	121	118
Physics	37	89	91	88	94	90	90	114	105	108	122	106	109	112	121	138
Other.....	8	9	14	18	20	26	19	22	19	19	16	11	12	13	12	20
Mathematics	4	7	10	11	10	15	15	14	13	15	14	12	10	12	10	7
Computer sciences.....	20	43	48	59	45	54	59	77	67	71	63	63	56	65	101	99
Earth, atmospheric, and ocean sciences.....	31	51	72	70	78	77	83	83	88	94	101	99	100	87	132	119
Atmospheric sciences	5	10	11	10	11	15	12	14	14	15	14	14	12	12	14	17
Earth sciences.....	12	18	27	29	30	27	30	27	31	35	38	35	37	29	33	42
Ocean sciences.....	11	18	20	19	28	24	27	28	29	31	33	37	34	34	74	50
Other.....	3	6	13	12	9	11	15	15	14	13	17	13	17	11	11	9
Life sciences	209	331	420	412	430	418	435	464	444	479	495	556	629	688	734	814
Agricultural sciences.....	41	58	54	53	59	53	68	63	63	69	76	72	77	82	71	74
Biological sciences.....	74	120	171	168	174	171	175	191	180	196	190	244	268	283	295	335
Medical sciences.....	87	138	177	169	176	178	173	187	183	198	213	221	263	302	339	372
Other.....	7	15	19	22	21	16	18	23	18	15	16	19	21	20	29	33
Psychology.....	7	9	11	11	11	15	13	12	12	13	13	12	14	14	19	23
Social sciences.....	9	14	15	14	18	19	21	27	25	24	22	18	19	17	17	18
Economics	2	4	4	5	5	5	6	7	6	5	4	4	3	2	2	3
Political science	1	1	1	2	2	3	3	3	3	3	3	2	2	2	2	2
Sociology	1	2	3	3	3	4	4	4	4	4	4	3	3	3	4	3
Other.....	5	7	7	5	7	8	9	12	11	11	11	9	11	9	9	9
Other sciences	10	20	25	25	18	18	23	51	45	49	33	32	51	54	47	49
Engineering	76	138	207	217	213	205	232	256	269	281	279	264	286	309	339	361
Aeronautical/astronautical	3	8	13	17	12	13	19	16	16	19	19	22	20	23	24	22
Bioengineering/biomedical	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	6	8	14	15	18	20
Chemical.....	6	14	18	20	20	22	19	22	24	23	28	27	26	31	30	32
Civil.....	7	12	20	18	16	18	19	22	26	28	21	23	29	32	43	30
Electrical/electronic.....	23	36	58	52	57	56	66	68	75	83	82	70	72	79	79	86
Mechanical.....	11	19	32	34	31	35	37	42	43	46	51	51	54	48	54	55
Materials.....	NA	NA	27	33	29	23	25	28	32	36	29	28	30	49	41	60
Other.....	29	58	51	59	61	51	66	73	69	62	60	57	61	55	74	78
	Millions of constant 2000 dollars															
All fields.....	693	1,099	1,247	1,217	1,197	1,180	1,227	1,344	1,293	1,349	1,337	1,352	1,434	1,475	1,628	1,703
Science	571	894	976	939	937	933	950	1,049	989	1,034	1,029	1,061	1,128	1,150	1,279	1,342
Physical sciences	124	229	235	225	230	235	230	260	249	255	262	253	250	235	263	279
Astronomy.....	6	8	16	17	16	19	22	24	23	28	26	29	25	14	18	18
Chemistry	50	83	90	82	81	85	87	88	94	94	94	104	103	98	116	112
Physics	56	126	112	104	109	101	99	124	112	113	126	108	109	110	116	130
Other.....	12	13	17	21	23	29	22	23	21	20	16	12	12	12	12	19

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	Millions of constant 2000 dollars															
Mathematics	6	10	13	13	12	17	17	16	14	16	15	12	10	11	10	7
Computer sciences	31	60	59	69	52	61	65	83	72	75	66	64	56	63	97	93
Earth, atmospheric, and ocean sciences	48	72	89	83	90	87	92	90	94	98	105	101	100	85	126	112
Atmospheric sciences	8	14	14	12	13	16	13	15	14	16	15	15	12	12	14	16
Earth sciences	18	25	34	34	35	31	33	29	33	37	39	35	37	29	31	39
Ocean sciences	17	25	25	23	32	27	30	30	31	32	34	38	34	34	71	47
Other	5	8	16	14	10	13	16	16	15	13	17	14	17	11	10	9
Life sciences	322	464	517	489	498	474	482	503	473	501	512	567	629	672	704	767
Agricultural sciences	63	81	66	63	68	60	75	69	67	73	78	74	77	80	68	70
Biological sciences	113	168	210	199	202	194	194	208	192	205	197	249	268	276	283	316
Medical sciences	134	194	218	201	203	201	192	203	195	207	220	225	263	296	325	351
Other	11	21	23	26	24	18	20	24	20	16	16	19	21	20	28	31
Psychology	10	12	13	13	13	17	14	13	13	14	14	12	14	14	18	22
Social sciences	15	20	18	17	21	21	24	29	27	25	23	18	19	16	16	17
Economics	3	5	5	5	6	5	6	8	7	6	4	4	3	2	2	3
Political science	1	2	2	2	3	3	3	3	4	3	3	2	2	2	2	2
Sociology	2	3	4	3	4	4	4	5	5	5	4	3	3	3	4	3
Other	8	10	8	6	8	9	10	13	12	12	11	9	11	9	9	9
Other sciences	16	28	31	30	21	20	26	55	48	51	34	33	51	53	45	46
Engineering	117	194	255	257	247	232	257	277	286	295	288	269	286	302	325	340
Aeronautical/astronautical	5	11	16	21	14	15	21	18	17	20	20	22	20	23	23	21
Bioengineering/biomedical	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	6	8	14	15	17	19
Chemical	9	20	22	24	23	24	21	24	26	25	29	28	26	30	29	30
Civil	11	16	25	21	18	21	21	24	27	29	22	24	29	31	41	28
Electrical/electronic	35	51	72	62	66	63	73	74	80	87	85	71	72	77	76	81
Mechanical	17	27	40	41	36	39	42	45	45	48	53	52	54	47	52	52
Materials	NA	NA	33	39	33	27	28	30	34	38	30	29	30	48	39	57
Other	45	81	63	71	70	58	73	79	74	65	62	58	61	54	71	74
	Percent distribution															
All fields	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	82.3	81.4	78.3	77.2	78.2	79.1	77.4	78.0	76.5	76.7	77.0	78.5	78.7	78.0	78.6	78.8
Physical sciences	17.9	20.8	18.9	18.5	19.2	19.9	18.7	19.3	19.3	18.9	19.6	18.7	17.4	15.9	16.2	16.4
Astronomy	0.9	0.7	1.3	1.4	1.4	1.6	1.8	1.8	1.8	2.1	2.0	2.2	1.7	1.0	1.1	1.1
Chemistry	7.2	7.5	7.2	6.8	6.8	7.2	7.1	6.6	7.2	6.9	7.0	7.7	7.2	6.7	7.2	6.6
Physics	8.1	11.4	9.0	8.6	9.1	8.6	8.1	9.2	8.7	8.4	9.4	8.0	7.6	7.5	7.1	7.7
Other	1.7	1.1	1.4	1.8	1.9	2.5	1.8	1.7	1.6	1.5	1.2	0.9	0.9	0.8	0.7	1.1
Mathematics	0.8	0.9	1.0	1.0	1.0	1.5	1.3	1.2	1.1	1.2	1.1	0.9	0.7	0.8	0.6	0.4
Computer sciences	4.4	5.4	4.7	5.7	4.4	5.1	5.3	6.2	5.5	5.5	4.9	4.8	3.9	4.3	5.9	5.5
Earth, atmospheric, and ocean sciences	6.9	6.5	7.1	6.8	7.5	7.4	7.5	6.7	7.3	7.3	7.8	7.5	6.9	5.8	7.8	6.6
Atmospheric sciences	1.2	1.3	1.1	1.0	1.1	1.4	1.0	1.1	1.1	1.2	1.1	1.1	0.8	0.8	0.9	1.0
Earth sciences	2.6	2.3	2.7	2.8	2.9	2.6	2.7	2.2	2.6	2.7	2.9	2.6	2.6	2.0	1.9	2.3
Ocean sciences	2.5	2.3	2.0	1.9	2.7	2.3	2.5	2.2	2.4	2.4	2.5	2.8	2.3	2.3	4.3	2.8
Other	0.7	0.7	1.3	1.2	0.9	1.1	1.3	1.2	1.2	1.0	1.3	1.0	1.2	0.8	0.6	0.5

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Field	1983	1986	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Percent distribution															
Life sciences	46.4	42.2	41.5	40.2	41.6	40.1	39.2	37.4	36.6	37.1	38.3	41.9	43.9	45.6	43.3	45.0
Agricultural sciences	9.1	7.4	5.3	5.2	5.7	5.1	6.1	5.1	5.2	5.4	5.9	5.4	5.3	5.4	4.2	4.1
Biological sciences	16.4	15.3	16.9	16.4	16.9	16.4	15.8	15.4	14.9	15.2	14.7	18.4	18.7	18.7	17.4	18.5
Medical sciences	19.4	17.7	17.5	16.5	17.0	17.1	15.7	15.1	15.1	15.4	16.4	16.7	18.3	20.0	20.0	20.6
Other	1.6	1.9	1.9	2.1	2.0	1.5	1.6	1.8	1.5	1.2	1.2	1.4	1.5	1.4	1.7	1.8
Psychology	1.4	1.1	1.1	1.1	1.1	1.5	1.1	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.1	1.3
Social sciences	2.1	1.8	1.5	1.4	1.7	1.8	1.9	2.1	2.1	1.9	1.7	1.3	1.3	1.1	1.0	1.0
Economics	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.2
Political science	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
Sociology	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2
Other	1.1	0.9	0.7	0.5	0.7	0.8	0.8	1.0	0.9	0.9	0.8	0.6	0.8	0.6	0.5	0.5
Other sciences	2.3	2.6	2.5	2.5	1.8	1.7	2.1	4.1	3.7	3.8	2.5	2.4	3.5	3.6	2.8	2.7
Engineering	16.9	17.7	20.5	21.1	20.6	19.7	20.9	20.6	22.2	21.8	21.5	19.9	19.9	20.5	20.0	20.0
Aeronautical/astronautical	0.8	1.0	1.2	1.7	1.1	1.3	1.7	1.3	1.3	1.5	1.5	1.6	1.4	1.5	1.4	1.2
Bioengineering/biomedical	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.3	0.5	0.6	0.9	1.0	1.1	1.1
Chemical	1.3	1.8	1.8	1.9	1.9	2.1	1.7	1.8	2.0	1.8	2.2	2.1	1.8	2.1	1.8	1.8
Civil	1.6	1.5	2.0	1.7	1.5	1.8	1.7	1.8	2.1	2.1	1.7	1.8	2.0	2.1	2.5	1.7
Electrical/electronic	5.0	4.6	5.8	5.1	5.5	5.4	5.9	5.5	6.2	6.4	6.4	5.3	5.0	5.2	4.7	4.7
Mechanical	2.5	2.4	3.2	3.3	3.0	3.3	3.4	3.4	3.5	3.6	3.9	3.8	3.8	3.2	3.2	3.1
Materials	NA	NA	2.7	3.2	2.8	2.2	2.3	2.3	2.6	2.8	2.2	2.1	2.1	3.3	2.4	3.3
Other	6.5	7.4	5.1	5.8	5.9	4.9	6.0	5.9	5.7	4.8	4.7	4.3	4.3	3.6	4.4	4.3

NA = not available

NOTES: Detail may not add to total because of rounding. See appendix table 4-1 for gross domestic product implicit price deflators used to convert current dollars to constant 2000 dollars.

SOURCES: National Science Foundation, Division of Science Resources Statistics, *Academic Research and Development Expenditures: Fiscal Year 2003* (forthcoming); and Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.