

**Table 2C. Federal obligations for basic research, by detailed field of science
& engineering: Department of Commerce,
fiscal years 1970-2003**

[Dollars in thousands]

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Field of science & engineering	1970	1971	1972	1973	1974	1975	1976
Total, all fields	18,163	15,711	7,928	6,644	7,681	8,109	11,001
Life sciences, total	0	0	0	0	0	0	0
Biol & agricultural, total	0	0	0	0	0	0	0
Biol (excl environmental)	NA	NA	NA	NA	NA	NA	NA
Environmental biology	NA	NA	NA	NA	NA	NA	NA
Agricultural	NA	NA	NA	NA	NA	NA	NA
Medical sciences, total	0	0	0	0	0	0	0
Clinical medical	0	0	0	0	0	0	0
Other medical	0	0	0	0	0	0	0
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	109	118	123	66	77	80	42
Biological aspects	0	0	0	0	0	0	0
Social aspects	109	118	123	66	77	80	42
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	11,089	11,756	4,046	3,677	4,907	4,379	4,767
Astronomy	823	755	487	347	329	368	346
Chemistry	3,693	3,684	1,696	1,305	1,909	1,123	1,325
Physics	6,246	7,317	1,621	2,025	2,669	2,888	3,096
Physical sciences, n.e.c.	327	0	242	0	0	0	0
Environmental sciences, total	0	0	0	0	0	0	0
Atmospheric sciences	0	0	0	0	0	0	0
Geological sciences	0	0	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	0	0	0
Math & computer sciences, total	420	239	221	105	123	127	140
Mathematics	NA	NA	NA	NA	NA	NA	140
Computer sciences	NA	NA	NA	NA	NA	NA	0
Math & computer sciences, n.e.c.	NA	NA	NA	NA	NA	NA	0
Engineering, total	2,835	3,008	3,514	2,785	2,563	2,812	2,311
Aeronautical	125	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	0	0	0	0	0	0	0
Civil	97	194	2,779	1,484	754	531	640
Electrical	562	360	0	226	364	232	261
Mechanical	96	373	0	0	0	100	145
Metallurgy & materials	1,537	1,796	682	692	1,049	903	942
Engineering, n.e.c.	418	285	53	383	396	1,046	323
Social sciences, total	3,526	30	24	11	11	11	1,675
Anthropology	0	0	0	0	0	0	0
Economics	3,526	30	24	11	11	11	1,675
Political science	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0
Social sciences, n.e.c.	0	0	0	0	0	0	0
History	0	0	0	0	0	0	NA
Linguistics	0	0	0	0	0	0	NA
Other social sciences	0	0	0	0	0	0	NA
Other sciences, n.e.c.	184	560	0	0	0	700	2,066

See explanatory information, if any, and SOURCE at end of table.

**Table 2C. Federal obligations for basic research, by detailed field of science
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[Dollars in thousands]

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Field of science & engineering	1977	1978	1979	1980	1981	1982	1983
Total, all fields	12,302	11,806	11,900	15,910	16,204	16,867	19,221
Life sciences, total	160	0	0	0	0	0	527
Biol & agricultural, total	0	0	0	0	0	0	527
Biol (excl environmental)	NA	0	0	0	0	0	527
Environmental biology	NA	0	0	0	0	0	0
Agricultural	NA	0	0	0	0	0	0
Medical sciences, total	160	0	0	0	0	0	0
Clinical medical	0	NA	NA	NA	NA	NA	NA
Other medical	160	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	45	109	128	104	84	59	57
Biological aspects	0	0	0	0	0	0	0
Social aspects	45	109	128	104	84	59	57
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	8,191	5,672	7,895	11,313	12,568	13,685	15,748
Astronomy	357	490	534	531	365	413	522
Chemistry	2,831	901	1,599	2,206	2,883	4,221	4,651
Physics	5,003	4,281	5,762	8,576	9,320	9,051	10,575
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	0	0	25	50	0	120	0
Atmospheric sciences	0	0	25	50	0	0	0
Geological sciences	0	0	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	0	120	0
Math & computer sciences, total	155	398	772	1,251	1,523	1,232	1,202
Mathematics	155	398	672	751	777	755	975
Computer sciences	0	0	100	500	662	477	227
Math & computer sciences, n.e.c.	0	0	0	0	84	0	0
Engineering, total	2,551	2,937	2,580	2,892	1,829	1,771	1,647
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	48	0	251	0	0	91	0
Civil	360	810	1,020	2,000	0	0	0
Electrical	360	270	230	0	0	0	0
Mechanical	120	433	465	102	366	477	358
Metallurgy & materials	717	0	311	752	1,180	1,131	963
Engineering, n.e.c.	946	1,424	303	38	283	72	326
Social sciences, total	1,200	2,690	500	300	200	0	40
Anthropology	0	0	0	0	0	0	0
Economics	1,200	2,690	500	300	200	0	40
Political science	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0
Social sciences, n.e.c.	0	0	0	0	0	0	0
History	NA	NA	NA	NA	NA	NA	NA
Linguistics	NA	NA	NA	NA	NA	NA	NA
Other social sciences	NA	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table 2C. Federal obligations for basic research, by detailed field of science
& engineering: Department of Commerce,
fiscal years 1970-2003**

[Dollars in thousands]

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Field of science & engineering	1984	1985	1986	1987	1988	1989	1990
Total, all fields	20,613	23,227	26,523	25,779	30,858	29,099	31,382
Life sciences, total	0	0	0	0	0	0	0
Biol & agricultural, total	0	0	0	0	0	0	0
Biol (excl environmental)	0	0	0	0	0	0	0
Environmental biology	0	0	0	0	0	0	0
Agricultural	0	0	0	0	0	0	0
Medical sciences, total	0	0	0	0	0	0	0
Clinical medical	NA	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	77	71	96	138	255	221	533
Biological aspects	0	0	0	0	0	0	0
Social aspects	77	71	96	138	255	221	533
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	16,317	19,668	21,647	20,659	21,034	22,621	22,942
Astronomy	536	643	415	428	455	335	291
Chemistry	4,802	7,221	8,274	7,614	8,294	9,147	9,450
Physics	10,979	11,677	12,958	12,617	12,285	13,139	13,126
Physical sciences, n.e.c.	0	127	0	0	0	0	75
Environmental sciences, total	55	19	0	88	3,381	118	75
Atmospheric sciences	0	0	0	0	3,238	0	0
Geological sciences	0	0	0	88	143	118	75
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	55	19	0	0	0	0	0
Math & computer sciences, total	2,070	1,747	1,027	1,055	1,582	1,285	2,562
Mathematics	1,137	1,019	652	713	1,235	1,285	2,533
Computer sciences	933	728	375	342	347	0	29
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	2,074	1,676	3,753	3,839	4,606	4,854	5,270
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	52	0
Chemical	283	0	497	307	751	653	1,024
Civil	47	0	59	0	0	0	0
Electrical	307	0	939	887	928	1,056	1,055
Mechanical	0	97	0	164	97	0	0
Metallurgy & materials	1,294	1,474	1,197	1,276	1,152	1,032	910
Engineering, n.e.c.	143	105	1,061	1,205	1,678	2,061	2,281
Social sciences, total	20	46	0	0	0	0	0
Anthropology	0	0	0	0	0	0	0
Economics	20	46	0	0	0	0	0
Political science	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0
Social sciences, n.e.c.	0	0	0	0	0	0	0
History	NA	NA	NA	NA	NA	NA	NA
Linguistics	NA	NA	NA	NA	NA	NA	NA
Other social sciences	NA	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table 2C. Federal obligations for basic research, by detailed field of science
& engineering: Department of Commerce,
fiscal years 1970-2003**

[Dollars in thousands]

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Field of science & engineering	1991	1992	1993	1994	1995	1996	1997
Total, all fields	34,332	34,517	37,201	40,119	39,258	37,536	39,235
Life sciences, total	0	0	0	122	313	258	476
Biol & agricultural, total	0	0	0	122	313	258	476
Biol (excl environmental)	0	0	0	122	313	258	476
Environmental biology	0	0	0	0	0	0	0
Agricultural	0	0	0	0	0	0	0
Medical sciences, total	0	0	0	0	0	0	0
Clinical medical	NA	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	464	179	67	59	59	161	201
Biological aspects	0	0	0	0	0	0	0
Social aspects	464	179	67	59	59	161	0
Psychological sciences, n.e.c.	0	0	0	0	0	0	201
Physical sciences, total	24,795	25,669	27,073	29,682	28,275	30,241	31,431
Astronomy	302	367	331	377	860	587	338
Chemistry	10,326	10,781	11,213	12,007	11,616	12,380	11,804
Physics	14,122	14,451	15,443	17,205	15,799	17,274	19,289
Physical sciences, n.e.c.	45	70	86	93	0	0	0
Environmental sciences, total	175	126	611	298	275	262	291
Atmospheric sciences	0	0	0	0	0	0	0
Geological sciences	175	126	611	298	275	262	291
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	0	0	0
Math & computer sciences, total	2,350	1,598	1,461	1,401	696	1,716	2,502
Mathematics	2,350	1,230	823	435	253	689	0
Computer sciences	0	368	638	706	443	1,027	1,642
Math & computer sciences, n.e.c.	0	0	0	260	0	0	860
Engineering, total	6,548	6,945	7,989	8,557	9,640	4,898	4,334
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	1,021	752	1,575	891	644	818	1,203
Civil	0	0	0	319	1,548	1,040	541
Electrical	1,001	970	811	897	549	151	235
Mechanical	159	179	5	0	1,090	934	605
Metallurgy & materials	1,237	1,339	1,486	1,917	1,260	1,396	1,248
Engineering, n.e.c.	3,130	3,705	4,112	4,533	4,549	559	502
Social sciences, total	0	0	0	0	0	0	0
Anthropology	0	0	0	0	0	0	0
Economics	0	0	0	0	0	0	0
Political science	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0
Social sciences, n.e.c.	0	0	0	0	0	0	0
History	NA	NA	NA	NA	NA	NA	NA
Linguistics	NA	NA	NA	NA	NA	NA	NA
Other social sciences	NA	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 2C. Federal obligations for basic research, by detailed field of science & engineering: Department of Commerce, fiscal years 1970-2003

[Dollars in thousands]

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Field of science & engineering	1998	1999	2000	2001	Preliminary	
					2002	2003
Total, all fields	39,593	49,128	46,362	64,917	76,550	97,172
Life sciences, total	4,447	4,265	4,365	2,875	3,127	6,868
Biol & agricultural, total	4,447	4,265	4,365	2,875	NA	NA
Biol (excl environmental)	4,447	4,265	4,365	2,875	NA	NA
Environmental biology	0	0	0	0	NA	NA
Agricultural	0	0	0	0	NA	NA
Medical sciences, total	0	0	0	0	NA	NA
Clinical medical	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	0	0	0	NA	NA
Psychology, total	104	672	0	0	0	0
Biological aspects	0	0	0	0	NA	NA
Social aspects	0	0	0	0	NA	NA
Psychological sciences, n.e.c.	104	672	0	0	NA	NA
Physical sciences, total	29,089	32,025	30,825	45,216	49,183	59,860
Astronomy	371	384	155	281	NA	NA
Chemistry	9,668	11,508	10,414	14,109	NA	NA
Physics	18,918	19,933	19,927	30,606	NA	NA
Physical sciences, n.e.c.	132	200	329	220	NA	NA
Environmental sciences, total	925	5,687	4,852	8,297	17,302	17,319
Atmospheric sciences	0	3,746	3,446	3,517	NA	NA
Geological sciences	518	599	514	147	NA	NA
Oceanography	0	1,342	892	4,633	NA	NA
Environmental sciences, n.e.c.	407	0	0	0	NA	NA
Math & computer sciences, total	1,699	2,696	2,665	4,214	2,245	2,339
Mathematics	0	0	0	0	NA	NA
Computer sciences	1,253	1,331	899	954	NA	NA
Math & computer sciences, n.e.c.	446	1,365	1,766	3,260	NA	NA
Engineering, total	3,329	3,783	3,655	4,315	4,693	10,786
Aeronautical	0	0	0	0	NA	NA
Astronautical	0	0	0	0	NA	NA
Chemical	1,019	691	680	746	NA	NA
Civil	126	122	70	76	NA	NA
Electrical	233	108	0	0	NA	NA
Mechanical	454	613	426	123	NA	NA
Metallurgy & materials	1,377	1,723	1,546	2,466	NA	NA
Engineering, n.e.c.	120	526	933	904	NA	NA
Social sciences, total	0	0	0	0	0	0
Anthropology	0	0	0	0	NA	NA
Economics	0	0	0	0	NA	NA
Political science	0	0	0	0	NA	NA
Sociology	0	0	0	0	NA	NA
Social sciences, n.e.c.	0	0	0	0	NA	NA
History	NA	NA	NA	NA	NA	NA
Linguistics	NA	NA	NA	NA	NA	NA
Other social sciences	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	0	0	0	0	0	0

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year, or that the agency or subagency did not exist as such or in that organization in that year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: Fiscal Years 2001, 2002, and 2003