

**Table 1M. Federal obligations for total research, by detailed field of science  
& engineering: All other departments and agencies,  
fiscal years 1970-2003**

[Dollars in thousands]

Page 1 of 5

Field of science & engineering	1970	1971	1972	1973	1974	1975	1976
Total, all fields .....	285,301	378,297	359,234	322,551	345,405	363,042	396,475
Life sciences, total .....	81,467	79,478	85,056	104,204	109,395	112,724	101,601
Biol & agricultural, total .....	35,595	37,424	38,937	44,495	39,043	44,713	42,673
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 .....	44,221	41,474	45,476	59,709	69,254	67,054	58,058
Clinical medical .....	40,855	30,822	34,001	42,458	51,866	47,535	38,097
Other medical .....	3,366	10,652	11,475	17,251	17,388	19,519	19,961
Life sciences, n.e.c. ....	1,651	580	643	0	1,098	957	870
Psychology, total .....	21,798	17,397	13,323	6,691	7,030	7,585	13,670
Biological aspects .....	4,065	3,816	4,200	3,620	4,179	4,265	8,560
Social aspects .....	17,432	13,516	9,123	3,071	2,807	3,259	5,110
Psychological sciences, n.e.c. ....	301	65	0	0	44	61	0
Physical sciences, total .....	7,477	6,715	6,861	5,932	9,085	6,397	7,680
Astronomy .....	3,215	2,723	3,757	3,897	3,966	4,248	4,408
Chemistry .....	2,186	2,343	1,360	1,477	2,390	1,841	2,175
Physics .....	1,916	1,429	1,458	289	951	61	170
Physical sciences, n.e.c. ....	160	220	286	269	1,778	247	927
Environmental sciences, total .....	4,848	6,523	11,800	7,569	9,362	9,482	5,296
Atmospheric sciences .....	597	807	3,098	1,742	3,285	3,145	129
Geological sciences .....	2,472	4,537	2,817	2,237	2,302	1,732	4,245
Oceanography .....	294	395	273	552	437	406	756
Environmental sciences, n.e.c. ....	1,485	784	5,612	3,038	3,338	4,199	166
Math & computer sciences, total .....	2,507	909	7,546	4,855	667	337	1,207
Mathematics .....	NA	NA	NA	NA	NA	NA	582
Computer sciences .....	NA	NA	NA	NA	NA	NA	387
Math & computer sciences, n.e.c. ....	NA	NA	NA	NA	NA	NA	238
Engineering, total .....	81,322	100,586	94,727	78,582	111,864	130,805	136,677
Aeronautical .....	8,027	12,252	1,046	2,650	3,981	3,838	1,767
Astronautical .....	243	677	781	592	463	430	382
Chemical .....	2,417	3,294	2,701	1,977	1,504	1,988	1,695
Civil .....	32,273	29,698	67,802	51,312	40,625	37,187	21,957
Electrical .....	9,343	13,064	7,418	10,435	9,260	6,825	3,382
Mechanical .....	21,034	28,197	3,294	5,125	5,788	2,751	2,710
Metallurgy & materials .....	2,641	3,201	2,455	548	898	562	472
Engineering, n.e.c. ....	5,344	10,203	9,230	5,943	49,345	77,224	104,312
Social sciences, total .....	78,821	158,389	125,213	108,542	93,587	85,963	126,408
Anthropology .....	3,171	2,634	2,892	4,292	2,978	2,713	2,575
Economics .....	23,179	19,963	22,614	27,617	36,544	32,893	43,198
Political science .....	2,068	1,355	578	2,489	5,329	6,466	2,810
Sociology .....	13,729	71,132	63,212	38,487	14,805	18,195	15,546
Social sciences, n.e.c. ....	36,674	63,305	35,917	35,657	33,931	25,696	62,279
History .....	3,548	3,235	3,323	3,688	4,786	4,956	NA
Linguistics .....	305	325	295	449	52	0	NA
Other social sciences .....	32,821	59,745	32,299	31,520	29,093	20,740	NA
Other sciences, n.e.c. ....	7,061	8,300	14,708	6,176	4,415	9,749	3,936

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

**Table 1M. Federal obligations for total research, by detailed field of science  
& engineering: All other departments and agencies,  
fiscal years 1970-2003**

[Dollars in thousands]

Page 2 of 5

Field of science & engineering	1977	1978	1979	1980	1981	1982	1983
Total, all fields .....	477,054	576,893	672,285	730,761	764,916	750,030	807,389
Life sciences, total .....	120,675	127,418	191,048	210,675	219,434	272,151	320,591
Biol & agricultural, total .....	44,050	45,067	77,101	80,186	91,175	115,605	146,686
Biol (excl environmental) .....	NA	34,715	29,777	27,801	31,607	39,310	42,002
Environmental biology .....	NA	8,670	11,547	11,824	12,905	13,262	12,938
Agricultural .....	NA	1,682	35,777	40,561	46,663	63,033	91,746
Medical sciences, total .....	74,362	77,925	106,446	127,017	128,259	152,562	168,768
Clinical medical .....	50,945	NA	NA	NA	NA	NA	NA
Other medical .....	23,417	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c. ....	2,263	4,426	7,501	3,472	0	3,984	5,137
Psychology, total .....	12,153	17,222	17,075	17,632	13,791	11,791	14,082
Biological aspects .....	9,534	10,363	11,047	9,829	7,600	6,400	9,327
Social aspects .....	2,619	5,859	3,312	4,392	6,191	2,370	1,502
Psychological sciences, n.e.c. ....	0	1,000	2,716	3,411	0	3,021	3,253
Physical sciences, total .....	10,946	16,055	17,354	16,876	16,072	17,833	18,011
Astronomy .....	5,007	6,417	6,670	7,596	8,144	7,914	9,360
Chemistry .....	4,729	7,047	7,997	5,799	4,668	5,417	6,068
Physics .....	470	1,781	2,307	2,564	2,680	2,263	1,221
Physical sciences, n.e.c. ....	740	810	380	917	580	2,239	1,362
Environmental sciences, total .....	11,011	3,780	5,095	5,210	4,164	6,482	5,562
Atmospheric sciences .....	995	163	506	325	221	1,420	288
Geological sciences .....	1,973	2,029	2,132	2,546	2,465	3,516	3,985
Oceanography .....	1,045	1,406	2,069	1,837	1,075	1,262	1,159
Environmental sciences, n.e.c. ....	6,998	182	388	502	403	284	130
Math & computer sciences, total .....	1,533	14,203	12,893	5,140	4,082	6,051	9,538
Mathematics .....	378	11,258	1,775	1,045	641	2,485	3,060
Computer sciences .....	433	648	6,158	2,920	3,254	3,366	4,066
Math & computer sciences, n.e.c. ....	722	2,297	4,960	1,175	187	200	2,412
Engineering, total .....	186,701	215,943	213,788	270,590	301,658	302,802	289,716
Aeronautical .....	2,435	2,711	1,125	1,382	1,230	1,085	2,142
Astronautical .....	381	442	525	719	704	665	750
Chemical .....	174	1,601	1,302	1,275	955	715	1,078
Civil .....	34,751	44,494	13,596	24,058	24,898	33,121	33,276
Electrical .....	5,130	9,064	11,668	15,460	16,751	9,345	6,547
Mechanical .....	8,443	9,175	13,679	19,394	21,647	14,345	15,605
Metallurgy & materials .....	796	813	232	1,224	1,184	1,040	1,416
Engineering, n.e.c. ....	134,591	147,643	171,661	207,078	234,289	242,486	228,902
Social sciences, total .....	133,237	176,892	194,826	189,265	184,193	121,331	148,250
Anthropology .....	3,805	7,884	5,541	7,006	6,444	6,797	5,017
Economics .....	44,851	45,775	61,003	71,122	92,233	45,359	41,082
Political science .....	3,726	2,240	5,829	4,965	4,102	1,858	2,929
Sociology .....	16,786	15,782	18,629	16,593	14,052	9,462	12,052
Social sciences, n.e.c. ....	64,069	105,211	103,824	89,579	67,362	57,855	87,170
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. ....	798	5,380	20,206	15,373	21,522	11,589	1,639

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

**Table 1M. Federal obligations for total research, by detailed field of science  
& engineering: All other departments and agencies,  
fiscal years 1970-2003**

[Dollars in thousands]

Page 3 of 5

Field of science & engineering	1984	1985	1986	1987	1988	1989	1990
Total, all fields .....	843,537	847,585	801,164	816,604	826,409	971,602	1,076,597
Life sciences, total .....	354,504	392,048	358,080	344,789	331,119	443,154	461,058
Biol & agricultural, total .....	149,788	151,441	166,955	142,210	123,691	210,012	210,338
Biol (excl environmental) .....	42,375	43,948	32,992	38,040	44,642	63,766	49,390
Environmental biology .....	14,817	14,018	16,945	19,268	18,099	19,770	22,569
Agricultural .....	92,596	93,475	117,018	84,902	60,950	126,476	138,379
Medical sciences, total .....	198,626	236,393	180,607	189,599	187,645	207,293	214,270
Clinical medical .....	NA	NA	NA	NA	NA	NA	NA
Other medical .....	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c. ....	6,090	4,214	10,518	12,980	19,783	25,849	36,450
Psychology, total .....	17,014	19,927	22,399	25,289	25,458	24,073	21,066
Biological aspects .....	9,976	13,264	10,599	12,737	13,278	15,129	14,234
Social aspects .....	3,161	3,347	9,872	9,884	8,028	4,476	4,114
Psychological sciences, n.e.c. ....	3,877	3,316	1,928	2,668	4,152	4,468	2,718
Physical sciences, total .....	19,883	20,642	19,566	23,570	24,128	32,176	38,427
Astronomy .....	10,241	12,577	11,747	18,791	15,620	16,448	18,066
Chemistry .....	3,119	1,804	6,345	2,354	6,404	13,321	17,440
Physics .....	1,279	738	573	614	919	1,410	1,334
Physical sciences, n.e.c. ....	5,244	5,523	901	1,811	1,185	997	1,587
Environmental sciences, total .....	7,388	5,579	6,112	5,937	8,260	12,247	12,575
Atmospheric sciences .....	368	196	95	55	43	793	781
Geological sciences .....	3,156	3,752	3,403	4,053	5,480	8,843	9,475
Oceanography .....	1,910	1,631	1,694	1,436	1,585	1,699	1,900
Environmental sciences, n.e.c. ....	1,954	0	920	393	1,152	912	419
Math & computer sciences, total .....	7,203	12,487	13,682	18,324	18,301	18,107	21,725
Mathematics .....	3,225	5,262	7,111	7,187	7,693	7,993	9,500
Computer sciences .....	1,821	5,990	5,402	7,186	8,979	7,225	7,792
Math & computer sciences, n.e.c. ....	2,157	1,235	1,169	3,951	1,629	2,889	4,433
Engineering, total .....	271,904	222,897	202,137	187,548	200,622	218,504	218,021
Aeronautical .....	2,310	2,730	2,115	1,665	2,229	3,737	4,180
Astronautical .....	1,075	1,211	980	777	1,129	1,699	1,676
Chemical .....	1,594	1,081	2,274	1,348	1,040	6,927	6,976
Civil .....	39,458	29,892	28,127	29,370	48,351	55,726	60,045
Electrical .....	5,885	6,864	6,701	3,339	3,748	7,146	8,963
Mechanical .....	14,435	12,407	13,503	11,953	13,996	14,701	12,138
Metallurgy & materials .....	1,920	2,032	2,271	902	3,638	179	169
Engineering, n.e.c. ....	205,227	166,680	146,166	138,194	126,491	128,389	123,874
Social sciences, total .....	155,554	163,996	157,708	185,573	183,302	204,834	257,004
Anthropology .....	9,414	8,627	3,159	3,338	3,114	3,393	3,629
Economics .....	41,919	41,460	34,661	44,177	49,769	49,124	76,053
Political science .....	3,251	3,005	3,656	4,155	4,757	5,739	5,187
Sociology .....	10,907	7,720	11,791	12,985	10,897	12,806	9,732
Social sciences, n.e.c. ....	90,063	103,184	104,441	120,918	114,765	133,772	162,403
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. ....	10,087	10,009	21,480	25,574	35,219	18,507	46,721

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

**Table 1M. Federal obligations for total research, by detailed field of science  
& engineering: All other departments and agencies,  
fiscal years 1970-2003**

[Dollars in thousands]

Page 4 of 5

Field of science & engineering	1991	1992	1993	1994	1995	1996	1997
Total, all fields .....	1,126,261	1,129,636	1,268,155	1,177,531	1,379,507	1,296,401	1,266,352
Life sciences, total .....	542,557	470,831	542,798	441,833	542,266	481,418	447,577
Biol & agricultural, total .....	167,880	139,717	195,598	160,474	295,426	237,770	92,079
Biol (excl environmental) .....	54,852	48,135	52,509	57,367	57,184	60,919	61,133
Environmental biology .....	26,396	30,053	33,570	29,153	213,440	153,338	30,129
Agricultural .....	86,632	61,529	109,519	73,954	24,802	23,513	817
Medical sciences, total .....	188,470	255,971	300,506	251,657	178,838	200,935	184,703
Clinical medical .....	NA	NA	NA	NA	NA	NA	NA
Other medical .....	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c. ....	186,207	75,143	46,694	29,702	68,002	42,713	170,795
Psychology, total .....	25,292	33,273	57,256	48,212	57,559	45,621	50,722
Biological aspects .....	16,541	16,808	15,915	14,023	17,003	14,418	13,317
Social aspects .....	6,707	8,715	39,007	32,570	35,233	26,418	33,209
Psychological sciences, n.e.c. ....	2,044	7,750	2,334	1,619	5,323	4,785	4,196
Physical sciences, total .....	36,468	40,228	42,171	46,546	48,433	73,561	91,698
Astronomy .....	22,786	28,544	28,352	32,665	36,509	35,416	35,962
Chemistry .....	10,608	8,638	6,871	7,230	7,264	2,882	2,122
Physics .....	2,094	1,808	3,948	5,283	2,868	33,373	47,543
Physical sciences, n.e.c. ....	980	1,238	3,000	1,368	1,792	1,890	6,071
Environmental sciences, total .....	10,546	14,795	11,965	13,104	13,301	13,617	19,445
Atmospheric sciences .....	1,011	4,768	4,031	3,569	5,239	6,501	8,990
Geological sciences .....	6,219	6,407	4,148	6,577	5,173	5,225	5,932
Oceanography .....	2,796	2,525	1,278	1,081	942	1,002	1,044
Environmental sciences, n.e.c. ....	520	1,095	2,508	1,877	1,947	889	3,479
Math & computer sciences, total .....	34,815	38,301	46,456	35,630	109,200	33,306	26,111
Mathematics .....	10,783	11,000	2,497	1,908	149	207	604
Computer sciences .....	19,248	21,078	41,175	32,869	35,413	28,459	19,494
Math & computer sciences, n.e.c. ....	4,784	6,223	2,784	853	73,638	4,640	6,013
Engineering, total .....	198,427	223,161	250,575	289,121	296,329	325,531	294,965
Aeronautical .....	2,879	751	250	245	275	0	0
Astronautical .....	200	300	0	0	0	0	0
Chemical .....	7,114	3,179	6,477	4,789	2,395	945	0
Civil .....	41,401	48,522	70,404	106,747	135,236	139,810	112,893
Electrical .....	10,342	14,078	9,223	6,244	4,789	8,747	5,538
Mechanical .....	18,039	20,609	15,892	13,369	20,867	18,321	20,805
Metallurgy & materials .....	1,312	906	7,720	9,325	10,573	4,993	8,206
Engineering, n.e.c. ....	117,140	134,816	140,609	148,402	122,194	152,715	147,523
Social sciences, total .....	241,091	252,036	267,078	247,787	275,207	286,495	291,350
Anthropology .....	4,439	3,936	3,487	3,678	3,415	3,525	3,687
Economics .....	60,476	68,548	66,856	48,886	62,306	54,958	43,372
Political science .....	5,472	11,317	18,264	10,854	4,661	3,749	1,479
Sociology .....	10,806	11,730	19,953	26,301	20,605	21,084	2,729
Social sciences, n.e.c. ....	159,898	156,505	158,518	158,068	184,220	203,179	240,083
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. ....	37,065	57,011	49,856	55,298	37,212	36,852	44,484

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

**Table 1M. Federal obligations for total research, by detailed field of science & engineering: All other departments and agencies, fiscal years 1970-2003**

[Dollars in thousands]

Field of science & engineering	1998	1999	2000	2001	Preliminary	
					2002	2003
Total, all fields .....	1,322,455	1,483,751	1,380,367	1,594,780	1,811,159	1,664,512
Life sciences, total .....	379,891	428,824	442,545	477,230	494,218	508,636
Biol & agricultural, total .....	117,194	98,883	113,657	103,278	NA	NA
Biol (excl environmental) .....	18,737	16,648	19,342	20,225	NA	NA
Environmental biology .....	21,752	18,394	18,612	19,066	NA	NA
Agricultural .....	76,705	63,841	75,703	63,987	NA	NA
Medical sciences, total .....	220,887	281,004	282,438	287,581	NA	NA
Clinical medical .....	NA	NA	NA	NA	NA	NA
Other medical .....	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c. ....	41,810	48,937	46,450	86,371	NA	NA
Psychology, total .....	67,074	80,206	86,750	78,724	82,265	81,306
Biological aspects .....	0	14	75	0	NA	NA
Social aspects .....	30,301	28,684	30,034	22,319	NA	NA
Psychological sciences, n.e.c. ....	36,773	51,508	56,641	56,405	NA	NA
Physical sciences, total .....	81,232	93,563	84,616	97,893	139,091	56,347
Astronomy .....	37,168	36,967	39,404	39,142	NA	NA
Chemistry .....	2,138	1,226	1,080	1,859	NA	NA
Physics .....	37,521	49,823	40,565	51,392	NA	NA
Physical sciences, n.e.c. ....	4,405	5,547	3,567	5,500	NA	NA
Environmental sciences, total .....	33,004	42,170	30,970	41,924	47,887	51,039
Atmospheric sciences .....	21,522	26,979	21,160	29,589	NA	NA
Geological sciences .....	4,451	6,783	3,379	3,492	NA	NA
Oceanography .....	838	766	841	887	NA	NA
Environmental sciences, n.e.c. ....	6,193	7,642	5,590	7,956	NA	NA
Math & computer sciences, total .....	26,296	14,053	13,697	15,616	14,865	14,694
Mathematics .....	212	96	0	0	NA	NA
Computer sciences .....	19,258	4,942	5,233	5,904	NA	NA
Math & computer sciences, n.e.c. ....	6,826	9,015	8,464	9,712	NA	NA
Engineering, total .....	335,376	371,712	270,039	297,939	359,126	289,076
Aeronautical .....	0	24	3,820	0	NA	NA
Astronautical .....	0	0	0	0	NA	NA
Chemical .....	18	1,034	0	110	NA	NA
Civil .....	82,550	149,699	30,335	85,812	NA	NA
Electrical .....	4,170	2,742	1,727	1,952	NA	NA
Mechanical .....	19,299	21,409	37,948	18,708	NA	NA
Metallurgy & materials .....	25,071	4,190	37,360	694	NA	NA
Engineering, n.e.c. ....	204,268	192,614	158,849	190,663	NA	NA
Social sciences, total .....	368,794	404,375	402,753	462,154	445,470	452,669
Anthropology .....	2,674	1,996	3,201	2,343	NA	NA
Economics .....	51,443	68,017	57,626	36,169	NA	NA
Political science .....	6,822	4,951	5,784	11,334	NA	NA
Sociology .....	76,168	57,990	58,500	70,089	NA	NA
Social sciences, n.e.c. ....	231,687	271,421	277,642	342,219	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. ....	30,788	48,848	48,997	123,300	228,237	210,745

**KEY:** NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal 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