TABLE 1

Federal obligations for science and engineering to universities and colleges, by type of activity: FYs 1963–2023

(Dollars in thousands)

Fiscal year	All federal obligations	R&D	R&D plant	Facilities and equipment for instruction in S&E	S&E fellowships, traineeships, and training grants	Other general support for S&E[a]	Other S&E activities[a]
1963	1,328,511	829,524	105,896	NA	NA	NA	393,091
1964	1,528,604	975,597	100,837	NA	NA	NA	452,170
1965	1,816,171	1,094,963	126,196	NA	NA	NA	595,012
1966	2,163,504	1,252,146	114,767	NA	365,560	NA	431,031
1967	2,323,795	1,301,242	111,309	NA	447,236	NA	464,008
1968	2,349,817	1,398,305	96,148	NA	440,895	NA	414,469
1969	2,361,399	1,474,681	54,516	NA	436,270	NA	395,932
1970	2,187,579	1,446,618	44,778	NA	429,408	NA	266,775
1971	2,343,129	1,551,391	29,942	28,729	421,029	99,669	212,369
1972	2,599,111	1,853,085	36,917	26,341	387,888	83,288	211,592
1973	2,464,362	1,870,690	43,338	13,372	287,210	38,964	210,788
1974	2,739,042	2,087,262	29,009	3,506	326,600	86,974	205,691
1975	2,808,986	2,249,291	44,787	5,026	201,273	46,353	262,256
1976	2,962,851	2,434,165	23,899	3,210	174,871	74,483	252,223
1977	3,358,153	2,808,422	37,882	3,282	184,671	75,928	247,968
1978	3,968,600	3,394,538	34,328	4,906	205,925	74,398	254,505
1979	4,481,184	3,882,039	32,068	6,743	204,866	92,483	262,985
1980	4,800,924	4,170,495	37,780	3,776	210,121	91,541	287,211
1981	5,078,360	4,426,435	27,694	4,563	205,448	92,721	321,499
1982	5,194,137	4,569,002	31,200	829	176,582	80,137	336,387
1983	5,705,467	5,049,166	37,547	2,522	189,616	94,847	331,769
1984	6,358,789	5,499,204	50,170	1,889	194,881	112,588	500,057
1985	7,316,911	6,305,230	113,932	4,947	253,082	119,171	520,549
1986	7,491,589	6,517,346	105,941	4,990	246,196	111,130	505,986
1987	8,633,938	7,308,109	229,875	13,722	290,942	236,933	554,357
1988	9,218,210	7,801,537	202,982	13,345	309,348	171,826	719,172
1989	10,199,858	8,638,929	246,302	16,911	340,458	197,745	759,513
1990	10,724,315	9,158,035	254,324	19,241	393,820	143,917	754,978
1991	12,253,193	10,297,628	303,770	32,792	469,297	192,823	956,883
1992	13,414,710	11,128,330	585,003	38,983	511,125	160,166	991,103
1993	13,450,691	11,252,235	648,778	33,247	526,331	66,827	923,273
1994	14,005,870	12,028,344	225,759	48,734	633,228	136,525	933,280
1995	14,597,466	12,317,998	341,343	51,581	674,464	263,975	948,105
1996	14,585,531	12,481,993	248,349	49,023	636,293	219,008	950,865
1997	15,261,571	13,185,472	276,487	29,889	676,610	170,843	922,270
1998	16,268,970	14,049,304	160,257	22,771	757,312	237,908	1,041,418
1999	18,131,367	15,657,513	159,925	46,992	843,538	314,652	1,108,747
2000	19,951,762	17,385,928	219,160	59,702	782,841	314,184	1,189,947
2001	22,583,058	19,514,184	367,412	67,426	842,530	331,904	1,459,602
2002	24,568,954	21,345,901	249,214	109,693	936,862	431,861	1,495,423
2003	26,725,407	22,890,338	706,815	86,112	949,944	428,796	1,663,402
2004	27,410,156	23,832,478	435,066	82,800	1,046,837	421,318	1,591,657
2005	28,168,006	24,699,372	510,966	39,987	1,044,057	388,914	1,484,710
2006	28,420,977	25,012,513	397,525	16,460	1,035,318	323,060	1,636,101
2007	28,410,891	25,123,709	337,924	13,262	1,100,954	221,735	1,613,307
2008	28,584,571	25,609,881	277,329	3,694	917,189	303,828	1,472,650
2009[b]	35,872,566	32,081,206	805,726	4,558	968,320	244,760	1,767,996
2010[b]	35,943,625	31,000,840	1,830,927	5,737	1,136,618	361,264	1,608,239
2011	31,759,725	28,202,324	330,436	3,834	1,015,543	208,116	1,999,472

TABLE 1

Federal obligations for science and engineering to universities and colleges, by type of activity: FYs 1963–2023

(Dollars in thousands)

Fiscal year	All federal obligations	R&D	R&D plant	Facilities and equipment for instruction in S&E	S&E fellowships, traineeships, and training grants	Other general support for S&E[a]	Other S&E activities[a]
2012	31,214,310	27,698,579	436,973	3,866	914,472	142,469	2,017,951
2013	29,405,000	26,155,512	272,852	4,125	893,609	132,001	1,946,901
2014	31,156,138	27,651,386	400,148	11,102	1,340,633	138,161	1,614,708
2015	30,560,319	27,104,561	370,922	4,373	1,346,731	137,994	1,595,739
2016	31,645,936	28,531,569	370,144	3,955	1,374,112	128,385	1,237,770
2017	32,438,299	29,803,868	431,665	3,131	1,371,419	96,438	731,778
2018	35,303,818	32,312,581	506,178	6,000	1,514,585	120,573	843,901
2019	38,082,832	35,124,233	593,659	6,103	1,802,625	96,093	460,119
2020	39,120,956	36,568,265	400,145	19,753	1,621,880	95,944	414,969
2021	43,218,784	39,502,213	418,694	11,320	1,750,416	1,536,141	NA
2022	44,624,166	41,302,018	512,849	17,885	1,942,763	848,651	NA
2023	48,961,658	45,008,768	458,139	65,456	2,456,890	972,405	NA

NA = not available.

S&E = science and engineering.

[a] Through 2020 the survey data collection used the categories General support for S&E and Other S&E activities. As of 2021, the category General support for S&E was changed to Other general support for S&E and includes the obligations previously reported as Other S&E activities.

[b] FYs 2009–10 include American Recovery and Reinvestment Act of 2009 obligations.

Note(s):
Detail may not add to total because of rounding. For the FY 2020 survey, the Department of Defense (DOD) S&E support to higher education institutions and DOD R&D support to nonprofit organizations are known to be understated. However, the magnitude of the missing data is unknown. Data users should use caution when conducting any time series analysis that includes DOD obligations data for FY 2020.

Source(s):
National Center for Science and Engineering Statistics, Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions; National Center for Science and Engineering Statistics, Federal Science and Engineering Support module of the Survey of Federal Funds for Research and Development.