TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2022

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE[a]	DOI	DOJ	DOL	DOT	ED	EPA	HHS[b]	HUD	NASA	NRC	NSF	SSA	USDA	Other[c]
All activities																					
1963	1,329	na	na	na	2	218	76	4	na	na	na	na	na	581	na	87	na	256	na	104	na
1964	1,529	na	na	na	2	258	80	5	na	na	na	na	na	684	na	108	na	277	na	115	na
1965	1,816	na	na	na	3	268	84	10	na	na	na	na	na	856	na	134	na	325	na	136	na
1966	2,164	na	na	na	3	278	97	19	na	na	na	na	na	1,109	na	142	na	374	na	141	na
1967	2,324	na	na	na	4	264	110	24	na	na	na	na	na	1,251	na	131	na	395	na	145	na
1968	2,350	na	na	na	8	243	120	28	na	7	4	na	na	1,229	2	130	na	423	na	144	12
1969	2,361	4	na	na	2	279	121	24	na	9	NA	na	na	1,262	1	127	na	367	na	156	9
1970	2,188	5	na	na	4	265	114	28	na	4	10	na	na	1,037	1	131	na	387	na	182	19
1971	2,343	19	na	na	8	249	106	23	na	5	11	na	27	1,142	1	134	na	388	na	215	16
1972	2,599	19	na	na	26	244	95	24	na	7	16	na	23	1,318	1	119	na	459	na	239	8
1973	2,464	11	na	na	28	233	96	24	na	6	16	na	28	1,225	1	111	na	420	na	257	9
1974	2,739	20	na	na	29	184	99	24	na	7	13	na	31	1,517	1	99	na	450	na	261	4
1975	2,809	12	na	na	26	190	124	29	na	6	21	na	39	1,469	2	108	*	492	na	291	na
1976	2,963	13	na	na	38	212	144	28	na	5	16	na	33	1,524	1	119	3	497	na	329	na
1977	3,358	24	na	na	32	267	208	29	na	7	11	na	46	1,692	4	121	5	567	na	343	na
1978	3,969	28	na	na	36	452	267	43	na	13	18	na	57	1,905	11	131	8	609	na	392	na
1979	4,481	29	na	na	48	529	274	40	na	11	11	0	67	2,220	4	144	7	675	na	423	na
1980	4,801	39	na	na	52	556	310	42	na	10	19	48	81	2,287	4	171	7	730	na	444	na
1981	5,078	31	na	na	52	726	310	34	na	13	29	56	68	2,372	3	184	7	702	na	491	na
1982	5,194	50	na	na	41	857	288	28	na	8	12	36	84	2,343	3	177	5	732	na	530	na
1983	5,705	43	na	na	51	940	320	32	na	6	25	35	50	2,612	2	214	5	804	na	566	na
1984	6,359	56	na	na	106	955	349	32	na	3	14	44	52	2,946	*	228	5	962	na	608	na
1985	7,317	57	na	na	81	1,061	454	33	na	3	8	70	65	3,453	*	267	5	1,106	na	653	na
1986	7,492	44	na	na	70	1,206	425	41	na	4	14	74	71	3,548	*	290	4	1,081	na	621	na
1987	8,635	53	na	na	89	1,279	482	39	na	8	15	281	74	4,211	*	328	4	1,097	na	675	na
1988	9,219	48	na	na	82	1,378	548	42	na	8	24	256	66	4,504	*	388	4	1,130	na	742	na
1989	10,201	65	na	na	77	1,486	611	56	na	7	25	270	86	4,935	0	490	4	1,366	na	722	na
1990	10,725	47	na	na	118	1,342	726	60	na	9	43	260	94	5,223	*	545	5	1,476	na	762	17
1991	12,254	32	na	na	125	1,541	903	83	na	6	44	354	116	5,848	*	644	5	1,675	na	868	11
1992	13,416	28	na	na	132	1,512	1,175	80	na	9	58	402	150	6,310	*	736	6	1,863	na	949	4
1993	13,452	12	na	na	110	1,835	1,233	78	na	7	99	156	153	6,124	*	787	5	1,905	na	948	0
1994	14,007	13	na	na	164	1,893	638	64	na	5	67	171	145	7,004	1	806	6	2,084	na	946	*
1995	14,599	168	na	na	183	1,853	641	55	na	6	80	188	165	7,153	2	895	6	2,247	na	953	5
1996	14,587	108	na	na	211	1,788	658	45	10	6	62	175	103	7,470	2	826	4	2,242	1	876	*
1997	15,263	26	na	na	222	1,715	650	58	17	5	75	171	166	7,982	3	890	5	2,298	*	981	*

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2022

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE[a]	DOI	DOJ	DOL	DOT	ED	EPA	HHS[b]	HUD	NASA	NRC	NSF	SSA	USDA	Other[c]
1998	16,271	34	*	na	207	1,712	636	66	20	6	75	243	201	8,698	1	994	5	2,498	5	868	0
1999	18,134	30	*	na	313	1,805	655	82	23	11	107	326	181	9,890	1	1,101	5	2,653	5	946	0
2000	19,954	34	*	na	304	2,009	706	88	19	15	127	183	152	11,374	2	1,088	5	2,759	6	1,083	0
2001	22,585	31	*	na	371	2,164	772	99	22	16	160	188	190	12,897	2	1,202	5	3,255	9	1,202	0
2002	24,571	34	*	na	317	2,365	742	96	25	46	135	146	166	14,575	1	1,326	4	3,497	7	1,087	0
2003	26,727	27	*	2	392	2,534	763	96	38	44	152	229	146	15,911	1	1,338	3	3,896	9	1,146	0
2004	27,412	27	*	10	324	2,474	808	109	22	33	150	232	136	16,534	2	1,239	4	4,146	5	1,156	0
2005	28,170	27	*	40	406	2,394	945	71	27	36	140	308	163	17,256	1	1,158	4	3,953	8	1,231	0
2006	28,423	27	*	26	551	2,579	906	92	22	30	171	250	117	17,218	1	1,003	4	4,153	6	1,265	0
2007	28,413	30	*	33	343	2,828	835	89	6	31	112	269	93	17,584	*	577	3	4,318	6	1,254	na
2008	28,586	26	*	87	327	2,835	1,116	98	4	1	127	131	79	17,316	*	740	2	4,442	4	1,253	na
2009[d]	35,874	28	*	89	425	3,192	1,706	107	0	*	188	153	67	20,870	*	788	1	6,945	8	1,307	na
2010[d]	35,946	15	*	88	534	3,563	1,766	119	7	0	251	323	72	21,473	*	679	6	5,643	14	1,391	na
2011	31,762	22	0	84	301	3,940	1,182	114	8	0	231	228	64	18,265	2	654	4	5,206	5	1,451	na
2012	31,216	66	1	69	267	3,654	1,037	107	32	0	194	176	71	17,998	*	1,094	4	5,221	4	1,222	na
2013	29,407	89	0	61	271	3,384	1,080	51	7	0	128	180	49	16,903	4	1,006	5	5,048	5	1,136	na
2014	31,159	56	*	46	329	3,721	1,535	80	7	0	170	93	73	17,528	*	1,088	5	5,113	4	1,312	na
2015	30,563	50	*	73	340	3,503	1,288	79	4	0	144	124	44	17,024	1	1,137	4	5,315	6	1,426	na
2016	31,649	36	*	47	307	3,758	1,097	73	3	0	141	95	71	18,199	2	1,167	3	5,294	6	1,349	na
2017	32,440	49	*	39	408	4,178	995	55	1	0	135	84	31	19,053	1	1,102	3	5,359	5	941	na
2018	35,304	56	*	35	397	4,633	1,376	48	1	0	65	198	20	20,723	3	1,138	2	5,630	8	971	na
2019	38,084	57	1	20	424	4,680	1,370	64	8	0	249	177	9	22,638	2	1,078	1	6,058	9	1,242	na
2020	39,122	50	*	26	416	2,752	1,673	94	1	0	431	208	33	24,883	na	1,324	3	6,170	9	1,047	na
2021	43,223	15	*	36	454	5,351	1,595	71	37	0	170	192	47	25,610	na	1,396	20	6,381	6	1,842	*
2022	44,628	54	*	20	514	4,528	1,477	61	21	0	126	196	33	26,694	na	2,058	16	6,921	4	1,906	0
R&D																					
1963	830	na	na	na	2	218	68	4	na	na	na	na	na	333	na	60	na	105	na	41	na
1964	976	na	na	na	1	258	71	5	na	na	na	na	na	399	na	78	na	116	na	47	na
1965	1,095	na	na	na	2	268	75	10	na	na	na	na	na	442	na	101	na	139	na	59	na
1966	1,252	na	na	na	2	278	83	19	na	na	na	na	na	507	na	107	na	193	na	63	na
1967	1,301	na	na	na	3	264	90	24	na	na	na	na	na	577	na	109	na	170	na	64	na
1968	1,398	na	na	na	7	243	102	28	na	7	4	na	na	619	1	126	na	188	na	62	12
1969	1,475	4	na	na	2	279	103	23	na	9	NA	na	na	667	1	122	na	192	na	64	9
1970	1,447	5	na	na	3	265	101	27	na	4	10	na	na	615	1	127	na	201	na	67	19
1971	1,551	17	na	na	7	249	96	21	na	3	8	na	17	696	1	129	na	217	na	75	16
1972	1,853	13	na	na	24	244	87	23	na	7	12	na	18	879	1	112	na	335	na	89	8

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2022

(Dollars in millions)

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1973	1,871	8	na	na	25	233	85	22	na	5	15	na	19	904	1	103	na	349	na	94	9
1974	2,087	18	na	na	27	184	95	22	na	6	11	na	24	1,131	1	92	na	376	na	97	3
1975	2,249	8	na	na	22	190	119	27	na	4	18	na	34	1,207	2	100	0	406	na	111	na
1976	2,434	11	na	na	29	212	138	26	na	3	15	na	29	1,298	1	107	3	438	na	124	na
1977	2,808	20	na	na	32	267	187	27	na	7	10	na	45	1,456	4	114	4	492	na	142	na
1978	3,395	25	na	na	35	452	251	34	na	13	16	na	54	1,662	11	125	8	533	na	175	na
1979	3,882	28	na	na	47	529	256	35	na	11	11	0	61	1,971	4	137	6	591	na	194	na
1980	4,170	39	na	na	50	556	280	39	na	10	19	48	77	2,032	4	161	6	638	na	212	na
1981	4,426	31	na	na	51	701	282	30	na	13	28	56	64	2,121	3	174	7	624	na	241	na
1982	4,569	50	na	na	40	814	265	22	na	8	12	36	78	2,121	1	168	5	694	na	257	na
1983	5,049	43	na	na	50	913	297	21	na	6	25	35	45	2,370	1	199	5	764	na	274	na
1984	5,499	56	na	na	76	828	318	32	na	3	13	44	47	2,693	*	215	5	896	na	273	na
1985	6,305	57	na	na	80	909	376	33	na	3	7	70	62	3,112	*	253	5	1,038	na	301	na
1986	6,517	44	na	na	68	1,055	351	41	na	4	13	72	68	3,224	*	274	4	1,009	na	290	na
1987	7,308	53	na	na	88	1,099	379	39	na	8	13	85	67	3,851	*	311	4	1,015	na	296	na
1988	7,802	48	na	na	77	1,194	419	39	na	8	21	70	64	4,146	*	364	4	1,026	na	321	na
1989	8,639	65	na	na	69	1,221	485	53	na	6	22	69	78	4,531	0	464	4	1,236	na	336	na
1990	9,158	47	na	na	104	1,197	554	58	na	9	39	71	87	4,799	*	504	5	1,335	na	349	0
1991	10,298	32	na	na	65	1,324	714	70	na	6	34	95	104	5,384	*	584	5	1,471	na	409	0
1992	11,129	28	na	na	70	1,317	726	68	na	9	36	105	135	5,884	*	638	6	1,637	na	470	0
1993	11,253	12	na	na	58	1,588	710	70	na	6	76	95	143	5,710	*	659	5	1,651	na	468	0
1994	12,029	13	na	na	86	1,605	605	64	na	5	58	49	135	6,516	1	701	6	1,712	na	475	0
1995	12,318	25	na	na	103	1,611	607	54	na	6	72	68	149	6,629	2	772	6	1,768	na	447	0
1996	12,483	20	na	na	115	1,603	635	43	10	6	56	69	90	6,921	2	740	4	1,774	1	395	0
1997	13,186	12	na	na	117	1,522	630	58	17	5	71	64	151	7,386	3	794	5	1,865	*	486	0
1998	14,050	10	*	na	102	1,549	615	66	20	6	38	98	183	8,041	1	861	5	2,019	5	430	0
1999	15,658	11	*	na	142	1,691	637	82	22	9	71	108	165	9,119	1	967	5	2,122	5	502	0
2000	17,387	16	*	na	136	1,834	699	88	19	14	66	67	137	10,513	2	930	5	2,290	6	566	0
2001	19,515	15	*	na	156	1,959	762	99	22	15	85	72	170	11,956	2	982	5	2,542	9	665	0
2002	21,347	19	*	na	135	2,105	733	96	25	46	69	31	145	13,434	1	1,164	4	2,728	7	604	0
2003	22,891	13	*	2	182	2,229	757	96	38	44	83	93	134	14,382	1	1,161	3	3,016	5	654	0
2004	23,833	13	*	8	195	2,150	803	109	21	33	78	110	127	15,156	2	1,181	4	3,172	3	668	0
2005	24,700	13	*	37	226	2,163	941	69	27	35	47	155	150	15,878	1	1,089	4	3,132	7	725	0
2006	25,013	13	*	24	283	2,443	905	88	22	30	48	127	106	16,002	1	1,003	4	3,164	5	743	0
2007	25,125	30	*	30	214	2,653	833	86	6	31	56	126	87	16,317	*	577	3	3,336	4	734	na
2008	25,611	26	*	85	160	2,520	1,110	98	4	1	48	93	73	16,381	*	740	2	3,550	2	718	na

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2009[d]	32,082	28	*	89	177	2,969	1,692	105	0	*	110	98	62	19,807	*	788	1	5,424	7	724	na
2010[d]	31,002	15	*	88	260	3,461	1,757	119	7	0	160	263	72	19,307	*	674	6	4,038	11	764	na
2011	28,203	22	0	84	193	3,117	1,177	114	8	0	124	178	59	17,379	2	654	4	4,310	3	776	na
2012	27,700	66	1	69	160	2,771	1,028	107	32	0	99	132	65	17,152	*	1,094	4	4,259	1	659	na
2013	26,156	89	0	58	178	2,509	1,072	51	7	0	55	152	42	16,072	4	1,006	5	4,263	2	591	na
2014	27,652	56	*	37	215	2,788	1,384	79	7	0	81	67	69	16,639	*	1,088	5	4,404	2	730	na
2015	27,106	50	*	63	217	2,679	1,145	78	4	0	70	107	40	16,166	1	1,137	4	4,570	4	770	na
2016	28,533	36	*	47	188	3,191	947	73	3	0	77	77	68	17,296	2	1,167	3	4,569	4	785	na
2017	29,805	49	*	39	325	3,653	847	55	1	0	70	59	28	18,143	1	1,102	3	4,567	3	858	na
2018	32,313	56	*	35	290	3,993	1,233	48	1	0	48	173	18	19,640	3	1,138	2	4,766	7	861	na
2019	35,125	57	1	20	349	4,680	1,263	64	0	0	161	158	8	21,387	2	1,078	1	4,975	8	915	na
2020	36,569	50	*	26	324	2,732	1,590	94	*	0	269	188	29	23,727	na	1,324	3	5,316	8	888	na
2021	39,504	15	*	36	398	4,620	1,589	71	37	0	162	182	47	24,355	na	1,396	10	5,487	6	1,095	*
2022	41,304	54	*	20	418	4,500	1,477	61	21	0	117	192	33	25,304	na	2,058	16	5,847	4	1,184	0
R&D plant																					
1963	106	na	na	na	0	0	3	*	na	na	na	na	na	39	na	13	na	51	na	0	na
1964	101	na	na	na	0	0	4	0	na	na	na	na	na	40	na	9	na	48	na	0	na
1965	126	na	na	na	0	0	4	*	na	na	na	na	na	55	na	8	na	56	na	3	na
1966	115	na	na	na	0	0	7	*	na	na	na	na	na	49	na	7	na	49	na	2	na
1967	111	na	na	na	*	0	14	0	na	na	na	na	na	38	na	5	na	52	na	2	na
1968	96	na	na	na	*	0	12	0	na	0	0	na	na	37	0	0	na	45	na	2	0
1969	55	0	na	na	0	0	11	*	na	0	NA	na	na	21	0	0	na	21	na	1	0
1970	45	0	na	na	*	0	7	0	na	0	0	na	na	20	0	0	na	16	na	1	0
1971	30	0	na	na	0	0	5	0	na	0	0	na	0	15	0	*	na	10	na	0	0
1972	37	0	na	na	0	0	4	0	na	0	0	na	0	22	0	1	na	10	na	0	0
1973	43	0	na	na	*	0	6	*	na	0	0	na	0	27	0	3	na	7	na	0	0
1974	29	0	na	na	0	0	4	0	na	0	0	na	0	15	0	*	na	10	na	0	0
1975	45	0	na	na	0	0	4	0	na	0	0	na	0	23	0	*	0	18	na	0	na
1976	24	0	na	na	1	0	6	0	na	0	0	na	0	11	0	*	0	6	na	0	na
1977	38	0	na	na	0	0	18	0	na	0	1	na	0	13	0	*	0	7	na	0	na
1978	34	0	na	na	0	0	13	0	na	0	*	na	*	10	0	0	0	11	na	0	na
1979	32	1	na	na	0	0	9	0	na	0	0	0	0	8	0	*	0	15	na	0	na
1980	38	0	na	na	0	0	21	0	na	0	0	0	0	4	0	*	0	13	na	0	na
1981	28	0	na	na	0	1	20	0	na	0	0	0	0	2	0	*	0	5	na	0	na
1982	31	0	na	na	0	*	19	0	na	0	0	0	1	5	0	*	0	5	na	0	na
1983	38	0	na	na	0	0	17	0	na	0	0	0	*	1	0	2	0	8	na	10	na

TABLE 2

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(Dollars in millions)

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1984	50	0	na	na	0	0	29	0	na	0	0	0	*	1	0	*	0	10	na	10	na
1985	114	0	na	na	0	*	78	0	na	0	0	0	*	11	0	*	0	15	na	10	na
1986	106	0	na	na	1	0	73	0	na	0	0	2	0	4	0	*	0	16	na	9	na
1987	230	0	na	na	*	0	103	0	na	0	0	49	0	4	0	1	0	7	na	65	na
1988	203	0	na	na	0	0	128	0	na	0	0	1	0	0	0	1	0	5	na	68	na
1989	246	0	na	na	1	58	125	0	na	0	0	1	0	22	0	1	0	7	na	31	na
1990	254	0	na	na	*	0	170	0	na	0	0	0	0	14	0	1	0	7	na	45	17
1991	304	0	na	na	*	15	182	0	na	0	0	2	0	26	0	1	0	9	na	58	11
1992	585	0	na	na	*	0	440	0	na	0	0	*	0	17	0	1	0	64	na	58	4
1993	649	0	na	na	*	0	509	0	na	0	0	0	0	11	0	10	0	63	na	55	0
1994	226	0	na	na	*	*	25	*	na	0	2	0	0	16	0	20	0	123	na	39	*
1995	341	0	na	na	2	6	16	0	na	*	1	0	0	12	0	16	0	217	na	67	5
1996	248	0	na	na	0	2	16	0	0	0	1	0	0	18	0	0	0	160	0	51	*
1997	276	0	na	na	4	12	13	0	0	0	2	0	0	39	0	1	0	147	0	59	*
1998	160	0	0	na	3	*	12	0	0	0	*	0	0	21	0	0	0	124	0	0	0
1999	160	0	0	na	3	*	10	0	0	0	1	0	0	32	0	4	0	110	0	0	0
2000	219	0	0	na	1	0	7	0	0	0	2	0	0	75	0	14	0	120	0	*	0
2001	367	0	0	na	13	0	9	0	0	0	3	0	0	75	0	67	0	201	0	0	0
2002	249	0	0	na	1	*	9	0	0	0	2	0	0	100	0	3	0	134	0	0	0
2003	707	0	0	*	9	*	7	0	0	0	1	0	0	479	0	21	0	190	0	*	0
2004	435	0	0	1	26	0	5	0	0	0	1	0	0	117	0	59	0	226	0	0	0
2005	511	0	0	3	47	*	4	*	0	0	1	0	0	188	0	69	0	200	0	0	0
2006	398	0	0	2	53	1	1	3	*	0	3	0	0	40	0	0	0	295	0	0	0
2007	338	0	0	4	46	*	2	1	*	0	1	0	0	24	0	0	0	259	0	0	na
2008	277	0	0	2	48	1	6	0	0	0	2	0	0	42	0	0	0	178	0	*	na
2009[d]	806	0	0	*	51	0	14	2	0	0	1	0	0	97	0	0	0	640	0	0	na
2010[d]	1,831	0	0	0	36	0	5	0	0	0	1	0	0	890	0	5	0	894	0	*	na
2011	330	0	0	0	35	0	1	0	0	0	1	0	0	18	0	*	0	275	0	0	na
2012	437	0	0	0	25	0	0	*	0	0	1	0	0	6	0	0	0	404	0	*	na
2013	273	0	0	3	8	0	0	1	0	0	1	0	0	9	0	0	0	250	0	1	na
2014	400	0	0	9	21	0	55	1	0	0	*	0	0	67	0	0	0	246	0	0	na
2015	371	0	0	0	21	0	92	0	0	0	1	0	0	7	0	0	0	250	0	0	na
2016	370	0	0	0	17	0	108	0	0	0	*	0	0	6	0	0	0	239	0	0	na
2017	432	0	0	0	0	0	100	0	0	0	1	0	0	5	0	0	0	326	0	0	na
2018	506	0	0	0	0	0	97	0	0	0	*	0	0	8	0	0	0	401	0	0	na
2019	594	0	0	0	0	0	75	0	0	0	*	0	0	70	0	0	0	448	0	0	na

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2022

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE[a]	DOI	DOJ	DOL	DOT	ED	EPA	HHS[b]	HUD	NASA	NRC	NSF	SSA	USDA	Other[c]
2020	400	0	0	0	0	0	40	0	0	0	1	0	0	55	na	0	0	304	0	0	na
2021	419	0	0	0	*	0	5	0	0	0	0	0	0	88	na	0	0	325	0	0	0
2022	513	0	0	0	0	0	*	0	0	0	1	0	0	158	na	0	0	354	0	0	0
Facilities and equipment for instruction in S&E																					
1971[e]	29	0	na	na	0	0	2	*	na	0	0	na	0	14	0	0	na	12	na	*	0
1972	26	0	na	na	0	0	2	0	na	0	0	na	0	21	0	0	na	3	na	*	0
1973	13	0	na	na	0	0	2	*	na	0	0	na	0	9	0	0	na	2	na	0	0
1974	4	0	na	na	0	0	0	*	na	0	0	na	0	*	0	0	na	3	na	0	0
1975	5	0	na	na	*	0	0	0	na	0	0	na	0	5	0	0	0	*	na	0	na
1976	3	0	na	na	*	0	0	0	na	0	0	na	0	0	0	0	0	3	na	0	na
1977	3	0	na	na	0	0	*	0	na	0	0	na	0	0	0	0	0	3	na	0	na
1978	5	0	na	na	0	0	1	*	na	0	0	na	0	0	0	0	0	4	na	0	na
1979	7	0	na	na	0	0	3	0	na	0	0	0	0	0	0	0	0	3	na	0	na
1980	4	0	na	na	0	0	1	0	na	0	0	0	*	0	0	0	0	3	na	0	na
1981	5	0	na	na	0	*	1	0	na	0	0	0	*	0	0	0	0	3	na	0	na
1982	1	0	na	na	0	*	1	0	na	0	0	0	0	0	0	0	0	0	na	0	na
1983	3	0	na	na	0	*	2	0	na	0	0	0	*	0	0	0	0	0	na	0	na
1984	2	0	na	na	2	*	0	0	na	0	0	0	0	0	0	0	0	0	na	0	na
1985	5	0	na	na	0	0	0	0	na	0	0	0	0	0	0	0	*	5	na	0	na
1986	5	0	na	na	0	0	0	0	na	0	0	0	0	0	0	0	0	5	na	0	na
1987	14	0	na	na	0	0	0	0	na	0	0	5	0	0	0	0	0	9	na	0	na
1988	13	0	na	na	3	0	0	*	na	0	0	0	0	0	0	0	0	10	na	0	na
1989	17	0	na	na	2	0	0	0	na	0	0	0	0	0	0	0	0	15	na	0	na
1990	19	0	na	na	5	0	0	0	na	0	0	0	0	0	0	0	0	15	na	0	0
1991	33	0	na	na	5	*	0	0	na	0	6	0	0	0	0	0	0	22	na	0	0
1992	39	0	na	na	7	0	1	0	na	0	9	0	0	0	0	0	0	21	na	*	0
1993	33	0	na	na	4	0	0	0	na	0	7	0	0	0	0	0	0	21	na	1	0
1994	49	0	na	na	3	22	0	0	na	0	3	0	0	0	0	0	0	20	na	1	0
1995	52	0	na	na	3	30	*	0	na	0	0	0	0	0	0	0	0	18	na	1	0
1996	49	*	na	na	11	19	0	0	0	0	0	0	0	0	0	0	0	18	0	1	0
1997	30	0	na	na	1	12	*	0	0	0	0	0	0	0	0	0	0	16	0	1	0
1998	23	0	0	na	9	*	0	0	0	0	*	0	0	0	0	0	0	13	0	*	0
1999	47	0	0	na	13	18	0	0	0	0	*	0	0	0	0	0	0	15	0	1	0
2000	60	0	0	na	22	*	0	0	0	0	22	0	0	*	0	0	0	15	0	1	0
2001	67	0	0	na	16	0	0	0	0	0	35	0	0	0	0	*	0	15	0	1	0
2002	110	0	0	na	28	15	0	0	0	0	25	0	0	24	0	0	0	16	0	1	0

TABLE 2

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(Dollars in millions)

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2003	86	0	0	0	6	8	0	0	0	0	28	0	0	26	0	*	0	16	0	1	0
2004	83	0	0	0	9	17	0	0	0	0	25	0	0	19	0	0	0	12	0	1	0
2005	40	0	0	0	0	9	0	*	0	0	22	0	0	0	0	0	0	9	0	1	0
2006	16	0	0	0	0	11	0	0	0	0	4	0	0	1	0	0	0	0	0	*	0
2007	13	0	0	0	*	10	0	*	0	0	2	0	0	0	0	0	0	0	0	1	na
2008	4	0	0	0	0	*	0	0	0	0	2	0	0	0	0	0	0	0	0	1	na
2009[d]	5	0	0	0	0	*	0	0	0	0	4	0	0	0	0	0	0	0	0	1	na
2010[d]	6	0	0	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0	0	1	na
2011	4	0	0	0	0	*	0	0	0	0	3	0	0	0	0	0	0	0	0	*	na
2012	4	0	0	0	0	*	0	0	0	0	4	0	0	0	0	0	0	0	0	*	na
2013	4	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	na
2014	11	0	0	0	0	0	1	0	0	0	10	0	0	1	0	0	0	0	0	0	na
2015	4	0	0	0	0	0	*	0	0	0	4	0	0	1	0	0	0	0	0	0	na
2016	4	0	0	0	0	*	0	0	0	0	3	0	0	1	0	0	0	0	0	*	na
2017	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	na
2018	6	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	na
2019	6	0	0	0	0	0	0	0	0	0	6	0	0	*	0	0	0	0	0	0	na
2020	20	0	0	0	0	13	0	0	0	0	7	0	0	0	na	0	0	0	0	*	na
2021	11	0	0	0	0	5	0	0	0	0	6	0	0	0	na	0	0	0	0	0	0
2022	18	0	0	0	0	12	0	0	0	0	6	0	0	0	na	0	0	0	0	0	0
S&E fellowships, traineeships, and training grants																					
1966[e]	366	na	na	na	0	NA	3	0	na	na	na	na	na	290	na	25	na	47	na	0	na
1967	447	na	na	na	0	NA	4	0	na	na	na	na	na	379	na	15	na	49	na	0	na
1968	441	na	na	na	0	NA	4	0	na	0	0	na	na	387	0	1	na	49	na	0	0
1969	436	0	na	na	0	NA	6	0	na	0	NA	na	na	376	0	1	na	54	na	0	0
1970	429	0	na	na	0	NA	5	0	na	0	0	na	na	370	0	2	na	53	na	0	0
1971	421	0	na	na	*	0	3	*	na	1	3	na	10	361	0	1	na	42	na	0	0
1972	388	0	na	na	*	0	2	0	na	0	3	na	6	347	0	1	na	29	na	0	0
1973	287	0	na	na	1	0	2	0	na	0	1	na	9	257	0	1	na	16	na	0	0
1974	327	0	na	na	*	0	1	0	na	0	1	na	7	302	0	1	na	14	na	0	1
1975	201	0	na	na	*	0	1	0	na	0	3	na	5	182	0	1	0	10	na	0	na
1976	175	0	na	na	0	0	*	0	na	0	1	na	4	156	0	1	*	13	na	0	na
1977	185	0	na	na	0	0	*	0	na	0	1	na	1	166	0	1	*	15	na	0	na
1978	206	1	na	na	0	0	1	3	na	0	1	na	4	184	0	1	*	12	na	0	na
1979	205	0	na	na	0	0	2	*	na	0	0	0	5	182	0	2	0	14	na	0	na
1980	210	0	na	na	0	0	0	1	na	0	0	0	4	188	0	3	0	14	na	0	na

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2022

(Dollars in millions)

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1981	205	0	na	na	0	0	0	1	na	0	0	0	2	184	0	4	*	15	na	0	na
1982	177	0	na	na	0	0	*	0	na	0	*	0	2	152	0	4	0	17	na	0	na
1983	190	0	na	na	*	1	*	0	na	0	*	0	3	164	0	5	0	16	na	*	na
1984	195	0	na	na	*	0	1	0	na	0	*	0	2	165	0	5	0	22	na	*	na
1985	253	0	na	na	*	1	*	0	na	0	*	0	2	211	0	6	0	26	na	7	na
1986	246	0	na	na	0	1	1	0	na	0	*	0	3	204	0	8	0	25	na	5	na
1987	291	0	na	na	1	2	1	0	na	0	*	12	2	233	0	9	0	28	na	5	na
1988	309	0	na	na	3	1	1	0	na	*	0	14	2	239	0	16	0	29	na	5	na
1989	340	0	na	na	1	*	1	0	na	*	*	23	8	256	0	13	0	33	na	5	na
1990	394	0	na	na	1	*	2	*	na	0	*	28	3	289	0	22	0	41	na	8	0
1991	469	0	na	na	4	1	7	0	na	0	1	54	8	313	0	36	0	35	na	11	0
1992	511	0	na	na	4	3	8	0	na	*	3	64	11	320	0	40	0	46	na	12	0
1993	526	0	na	na	2	2	14	0	na	*	6	58	8	335	0	42	0	48	na	11	0
1994	633	0	na	na	5	26	2	*	na	*	4	99	9	388	0	44	0	46	na	11	0
1995	674	3	na	na	4	4	3	*	na	0	5	96	16	418	0	57	0	51	na	16	0
1996	636	*	na	na	5	7	1	1	*	0	4	81	14	422	0	38	0	50	0	15	0
1997	677	0	na	na	6	9	0	*	0	0	1	81	15	450	0	42	0	51	0	21	0
1998	757	0	0	na	3	8	*	*	0	0	3	112	18	491	0	39	0	61	0	21	0
1999	844	0	0	na	11	14	0	0	*	1	3	114	16	559	0	38	0	70	0	17	0
2000	783	0	0	na	10	18	0	0	*	1	3	34	15	570	0	31	0	58	0	41	0
2001	843	0	*	na	11	13	*	0	*	1	3	33	20	650	*	37	0	20	0	54	0
2002	937	0	*	na	13	15	0	0	*	0	4	37	21	700	0	36	0	81	0	30	0
2003	950	0	*	0	9	25	0	0	*	*	4	62	12	734	0	40	0	35	0	29	0
2004	1,047	0	0	0	8	8	0	0	*	*	4	58	9	886	0	0	0	41	0	33	0
2005	1,044	0	0	0	12	6	0	0	*	*	3	70	13	857	0	0	0	40	0	43	0
2006	1,036	0	0	0	15	12	0	0	0	0	7	70	11	837	0	0	0	43	*	42	0
2007	1,101	0	0	0	9	3	0	0	0	0	5	93	6	811	0	0	0	131	1	42	na
2008	917	0	0	0	9	5	0	0	0	0	7	26	5	767	0	0	0	48	1	50	na
2009[d]	968	0	0	0	7	7	*	0	0	0	7	37	5	815	0	0	0	51	1	38	na
2010[d]	1,137	0	0	*	18	0	4	0	0	0	7	40	1	952	0	0	0	51	*	62	na
2011	1,016	0	0	0	16	3	4	0	0	0	22	35	5	779	0	0	0	50	1	102	na
2012	914	0	0	0	19	*	8	0	0	0	10	29	5	758	0	0	0	28	1	55	na
2013	894	0	0	0	20	*	7	0	0	0	7	17	6	736	0	0	0	26	*	74	na
2014	1,341	0	0	0	23	1	94	0	0	0	9	16	4	732	0	0	0	399	*	63	na
2015	1,347	0	0	9	20	0	51	0	0	0	7	15	4	763	0	0	0	408	*	69	na
2016	1,374	0	0	*	29	0	42	0	0	0	8	16	3	816	0	0	0	397	1	63	na

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2022

(Dollars in millions)

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2017	1,371	0	0	*	5	0	48	0	0	0	7	16	3	835	0	0	0	391	*	66	na
2018	1,515	0	0	*	21	0	46	0	0	0	2	14	2	948	0	0	0	386	1	94	na
2019	1,803	0	0	0	17	0	32	0	8	0	8	8	2	1,083	0	0	0	547	1	98	na
2020	1,622	0	0	0	25	*	43	0	1	0	16	8	4	1,010	na	0	0	462	1	53	na
2021	1,751	0	0	0	*	*	1	0	0	0	2	0	0	1,074	na	*	11	497	0	166	0
2022	1,943	0	0	0	33	1	0	0	0	0	2	0	0	1,136	na	0	0	631	0	140	0
Other general support for S&E[f]																					
1971	100	0	na	na	*	0	0	1	na	1	0	na	0	40	0	0	na	57	na	0	0
1972	83	5	na	na	1	0	0	1	na	0	0	na	0	41	0	0	na	35	na	0	0
1973	39	2	na	na	0	0	0	1	na	1	0	na	0	20	0	0	na	14	na	0	0
1974	87	1	na	na	*	0	0	2	na	1	0	na	0	64	0	0	na	18	na	0	0
1975	46	4	na	na	2	0	0	2	na	2	0	na	0	37	0	0	0	0	na	0	na
1976	74	3	na	na	4	0	0	2	na	1	0	na	0	42	0	0	0	22	na	0	na
1977	76	4	na	na	0	0	3	2	na	0	0	na	0	42	0	0	1	25	na	0	na
1978	74	0	na	na	0	0	*	5	na	0	*	na	0	45	0	0	0	24	na	0	na
1979	92	0	na	na	0	0	*	4	na	0	0	0	1	53	0	0	0	29	na	5	na
1980	92	0	na	na	0	0	6	2	na	0	0	0	0	60	0	0	*	23	na	0	na
1981	93	0	na	na	0	7	0	3	na	0	1	0	1	60	0	0	0	21	na	0	na
1982	80	0	na	na	0	5	*	7	na	0	0	0	2	61	2	0	0	4	na	0	na
1983	95	0	na	na	0	3	4	11	na	0	0	*	2	74	*	0	0	1	na	0	na
1984	113	0	na	na	20	4	1	0	na	0	0	0	3	84	0	0	0	2	na	0	na
1985	119	0	na	na	*	2	*	*	na	0	0	0	1	113	0	0	0	3	na	0	na
1986	111	0	na	na	*	2	0	0	na	0	0	0	0	106	0	0	0	3	na	0	na
1987	237	0	na	na	0	6	0	0	na	0	0	108	4	113	0	0	0	6	na	0	na
1988	172	0	na	na	0	2	*	2	na	0	0	55	0	109	0	0	0	3	na	0	na
1989	198	0	na	na	0	2	0	3	na	0	0	80	0	109	0	0	0	3	na	0	na
1990	144	0	na	na	1	0	1	3	na	0	0	30	3	102	0	0	0	4	na	0	0
1991	193	0	na	na	29	0	*	13	na	0	0	32	3	109	0	0	0	6	na	0	0
1992	160	0	na	na	28	0	0	12	na	0	2	37	4	69	0	0	0	8	na	1	0
1993	67	0	na	na	15	*	0	8	na	0	1	4	2	27	0	0	0	10	na	1	0
1994	137	0	na	na	43	3	6	*	na	0	0	7	1	64	0	0	0	12	na	*	0
1995	264	107	na	na	56	6	16	0	na	0	0	6	0	59	0	0	0	15	na	0	0
1996	219	57	na	na	64	1	6	0	0	0	0	6	0	71	0	0	0	13	0	*	0
1997	171	10	na	na	63	1	6	0	0	0	0	7	0	76	0	0	0	2	0	6	0
1998	238	22	0	na	53	1	9	0	0	0	32	5	0	108	0	0	0	1	0	7	0
1999	315	17	0	na	95	*	9	0	0	0	32	7	0	139	0	0	0	12	0	4	0

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2022

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE[a]	DOI	DOJ	DOL	DOT	ED	EPA	HHS[b]	HUD	NASA	NRC	NSF	SSA	USDA	Other[c]
2000	314	16	0	na	82	*	0	0	0	*	34	0	0	171	0	0	0	2	0	9	0
2001	332	14	0	na	77	2	1	0	0	0	34	0	0	195	0	0	0	4	0	5	0
2002	432	14	0	na	78	4	0	0	0	0	34	0	0	289	0	0	0	8	0	3	0
2003	429	14	0	0	106	1	0	0	0	*	37	0	0	263	0	0	0	6	0	3	0
2004	421	14	0	0	30	1	0	0	0	*	42	0	0	326	0	0	0	8	0	*	0
2005	389	14	0	0	33	1	0	1	0	0	43	0	0	289	0	0	0	7	0	1	0
2006	323	14	0	0	46	1	0	1	0	0	60	0	0	191	0	0	0	9	1	*	0
2007	222	0	0	0	29	1	0	1	0	0	*	0	0	166	0	0	0	23	1	0	na
2008	304	0	0	0	5	154	0	*	0	0	0	0	0	116	0	0	0	27	1	0	na
2009[d]	245	0	0	*	0	67	0	*	0	0	0	0	0	146	0	0	0	31	1	0	na
2010[d]	361	0	0	0	0	0	0	0	0	0	14	0	0	311	0	0	0	34	3	0	na
2011	208	0	0	0	0	64	0	0	0	0	24	0	0	86	0	0	0	32	1	*	na
2012	142	0	0	0	0	21	0	0	0	0	15	0	0	75	0	0	0	31	1	0	na
2013	132	0	0	0	0	11	0	0	0	0	5	0	0	81	0	0	0	33	1	*	na
2014	138	0	0	0	0	13	0	0	0	0	3	0	0	84	0	0	0	34	1	2	na
2015	138	0	0	1	0	11	0	0	0	0	4	0	0	83	0	0	0	36	2	1	na
2016	128	0	0	0	0	16	0	0	0	0	*	0	0	75	0	0	0	35	1	2	na
2017	96	0	0	0	0	20	0	0	0	0	1	0	0	68	0	0	0	1	1	5	na
2018	121	0	0	0	0	24	0	0	0	0	2	0	0	89	0	0	0	*	0	6	na
2019	96	0	0	0	0	0	0	0	0	0	0	0	0	89	0	0	0	0	0	8	na
2020	96	0	0	0	0	0	0	0	0	0	1	0	0	89	na	0	0	0	0	6	na
2021	1,538	0	0	0	57	725	0	0	0	0	0	10	0	93	na	0	0	73	0	581	0
2022	851	0	0	0	63	16	1	0	0	0	1	4	0	96	na	0	0	89	0	582	0
Other S&E activities[f,g]																					
1963	393	na	na	na	*	0	5	*	na	na	na	na	na	209	na	14	na	101	na	63	na
1964	452	na	na	na	1	0	5	*	na	na	na	na	na	245	na	20	na	114	na	67	na
1965	595	na	na	na	1	0	6	*	na	na	na	na	na	360	na	25	na	130	na	73	na
1966	431	na	na	na	1	0	3	*	na	na	na	na	na	263	na	2	na	85	na	76	na
1967	464	na	na	na	1	0	3	*	na	na	na	na	na	257	na	2	na	123	na	79	na
1968	414	na	na	na	1	0	2	*	na	0	*	na	na	186	1	3	na	141	na	80	0
1969	396	0	na	na	*	*	1	1	na	0	NA	na	na	198	*	4	na	100	na	91	0
1970	267	0	na	na	1	*	1	1	na	0	0	na	na	32	0	2	na	117	na	114	0
1971	212	2	na	na	1	0	*	0	na	*	0	na	0	16	0	4	na	50	na	139	0
1972	212	0	na	na	1	0	*	0	na	0	0	na	0	9	0	5	na	47	na	150	0
1973	211	0	na	na	3	0	1	0	na	*	0	na	0	8	0	5	na	31	na	163	0
1974	206	0	na	na	2	0	*	0	na	0	0	na	0	6	0	6	na	28	na	164	0

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2022

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE[a]	DOI	DOJ	DOL	DOT	ED	EPA	HHS[b]	HUD	NASA	NRC	NSF	SSA	USDA	Other[c]
1975	262	0	na	na	2	0	*	0	na	*	0	na	0	15	0	6	*	59	na	180	na
1976	252	0	na	na	4	0	*	*	na	0	0	na	0	17	0	11	0	16	na	204	na
1977	248	0	na	na	*	0	*	*	na	0	0	na	0	15	0	6	0	25	na	201	na
1978	255	3	na	na	1	0	*	0	na	0	*	na	0	4	0	4	0	26	na	216	na
1979	263	0	na	na	1	0	3	0	na	0	0	0	*	7	0	5	*	22	na	224	na
1980	287	0	na	na	1	0	3	0	na	0	0	0	0	3	0	7	*	40	na	232	na
1981	321	0	na	na	1	17	8	*	na	0	*	0	*	5	0	6	*	34	na	250	na
1982	336	0	na	na	1	38	3	0	na	0	0	0	*	4	*	5	0	12	na	273	na
1983	332	0	na	na	1	23	*	*	na	0	0	0	*	3	*	8	0	15	na	282	na
1984	500	0	na	na	8	123	1	0	na	*	0	0	*	3	0	7	0	33	na	325	na
1985	521	0	na	na	1	150	*	0	na	*	*	0	0	7	0	8	*	19	na	336	na
1986	506	0	na	na	1	149	*	0	na	0	*	0	0	9	0	8	0	23	na	317	na
1987	555	0	na	na	1	171	0	0	na	0	2	21	1	10	0	7	0	33	na	309	na
1988	720	0	na	na	*	179	0	0	na	0	3	116	0	10	0	8	0	55	na	348	na
1989	760	0	na	na	4	206	*	0	na	0	3	97	0	17	0	12	0	72	na	350	na
1990	756	0	na	na	7	145	0	0	na	0	3	130	0	19	0	17	0	73	na	360	0
1991	957	0	na	na	22	200	0	*	na	0	3	172	*	17	0	22	0	132	na	389	0
1992	992	0	na	na	23	193	0	0	na	0	8	197	*	19	0	57	0	87	na	408	0
1993	924	0	na	na	30	245	0	0	na	*	9	0	*	40	0	76	0	111	na	413	0
1994	934	0	na	na	27	238	0	*	na	*	1	15	0	20	0	42	0	171	na	420	0
1995	949	32	na	na	16	196	0	*	na	0	2	18	0	35	0	49	0	177	na	423	0
1996	952	30	na	na	16	155	*	1	0	0	1	20	0	39	0	49	0	227	0	414	0
1997	923	4	na	na	31	159	*	*	0	0	1	20	0	31	0	53	0	216	0	408	0
1998	1,042	2	0	na	37	153	*	0	0	0	2	28	0	36	0	94	0	280	0	410	0
1999	1,110	2	0	na	49	82	*	0	0	0	*	96	0	41	0	91	0	324	0	424	0
2000	1,191	2	0	na	53	157	0	0	0	0	0	82	0	45	0	113	0	273	0	467	0
2001	1,461	2	0	na	98	190	0	0	0	0	0	83	0	21	0	116	0	473	0	477	0
2002	1,496	1	0	na	62	225	0	0	0	0	*	78	0	28	0	123	0	530	0	450	0
2003	1,664	*	0	0	79	270	0	0	0	*	0	74	0	28	0	117	0	632	5	459	0
2004	1,593	*	0	0	56	298	0	0	0	0	0	65	0	29	0	0	0	687	2	454	0
2005	1,486	*	0	0	88	215	0	*	0	0	25	83	0	45	0	0	0	566	1	462	0
2006	1,637	*	0	0	154	111	0	*	0	*	49	53	0	147	0	0	0	642	0	480	0
2007	1,614	0	0	0	44	161	0	*	0	*	47	50	0	266	0	0	0	569	0	477	na
2008	1,474	0	0	0	106	155	0	*	0	0	68	12	0	11	0	0	0	638	0	484	na
2009[d]	1,769	0	0	0	190	149	0	*	0	0	65	18	0	4	0	0	0	799	0	545	na
2010[d]	1,609	0	0	0	221	102	0	0	0	0	66	20	0	10	0	0	0	627	0	565	na

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2022

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE[a]	DOI	DOJ	DOL	DOT	ED	EPA	HHS[b]	HUD	NASA	NRC	NSF	SSA	USDA	Other[c]
2011	2,001	0	0	0	57	756	0	0	0	0	56	15	0	3	0	0	0	538	0	574	na
2012	2,019	0	0	0	63	863	0	0	0	0	66	14	0	6	0	0	0	499	0	507	na
2013	1,948	0	0	0	64	864	0	0	0	0	57	11	0	5	0	0	0	475	2	471	na
2014	1,616	0	0	0	70	919	0	0	0	0	66	10	0	5	0	0	0	30	0	516	na
2015	1,597	0	0	0	82	813	*	1	0	0	58	1	0	6	0	0	0	50	*	586	na
2016	1,239	0	0	0	74	552	0	*	0	0	53	1	0	5	0	0	0	55	*	499	na
2017	732	0	0	0	78	505	0	0	0	0	53	9	0	2	0	0	0	74	*	12	na
2018	844	0	0	0	86	616	0	0	0	0	7	11	0	38	0	0	0	77	0	9	na
2019	461	0	0	0	59	0	0	0	0	0	73	11	0	8	0	0	0	87	0	223	na
2020	415	0	0	0	67	7	0	0	0	0	138	13	0	2	na	0	0	88	0	101	na
2021	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2022	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

* = amount greater than $0 but less than $500,000. na = not applicable; agency did not exist as such or data were not collected at this level of detail. NA = not available; data were not provided by agency.

AID = Agency for International Development; ARC = Appalachian Regional Commission; DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOJ = Department of Justice; DOL = Department of Labor; DOT = Department of Transportation; ED = Department of Education; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; HUD = Department of Housing and Urban Development; NASA = National Aeronautics and Space Administration; NRC = Nuclear Regulatory Commission; NSF = National Science Foundation; S&E = science and engineering; SSA = Social Security Administration; USDA = Department of Agriculture.

[a] Data shown for FYs 1963–74 and FYs 1975–77 represent obligations of the Atomic Energy Commission and the Energy Research Development Commission, respectively.

[b] Data shown for FYs 1963–79 represent obligations of the Department of Health, Education, and Welfare. Also, HHS's Centers for Disease Control and Prevention data were excluded for FYs 2009 and 2010 due to their poor quality.

[c] Includes obligations from the following agencies: the Consumer Product Safety Commission, the Department of the Treasury, the General Services Administration, and the Office of Economic Opportunity.

[d] Includes American Recovery and Reinvestment Act of 2009 obligations.

[e] Data collected before this year are not separately identified but are included under Other S&E activities.

[f] Category was General support for S&E through 2020; as of 2021, the category was changed to Other general support for S&E and includes the obligations previously reported under Other S&E activities.

[g] Other S&E activities include data collected on Fellowships, traineeships, and training grants before FY 1966, Facilities for instruction in S&E before FY 1971, and General support for S&E before FY 1971.

Note(s):
Detail may not add to total because of rounding. Some trend shifts are related to institutional reclassification. For example, beginning in FY 1978, two laboratories that were formerly considered academically administered federally funded research and development centers became part of their respective institutions: the Applied Physics Laboratory (Johns Hopkins University) and the Applied Research Laboratory (Pennsylvania State University). Data for these laboratories are included in academic figures beginning in FY 1978. Similarly, Draper Laboratories separated from the Massachusetts Institute of Technology as of FY 1974 to become an independent nonprofit institution; data for this laboratory are included in the Massachusetts Institute of Technology's figures prior to FY 1974. For the FY 2020 survey, 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.