CHAPTER 2

Higher Education in Science and Engineering

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APPENDIX TABLE 2-1

S&E degrees awarded, by degree level, Carnegie institution type, and field: 2015

(Number)

Degree and institution type	All fields	S&E field							
		All S&E	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology
Associate's	1,024,187	90,589	2,678	5,071	36,421	153	2,697	4,909	8,736
Doctorate-granting universities — very high research activity	2,819	78	50	0	18	0	0	0	0
Doctorate-granting universities — high research activity	4,462	242	38	0	187	0	2	1	0
Doctoral/ research universities	2,069	108	24	6	64	0	0	1	11
Master's colleges and universities	52,684	2,815	101	66	1,446	1	7	71	358
Baccalaureate colleges	50,529	3,408	190	114	2,142	0	19	202	338
Associate's colleges	844,568	73,245	2,210	4,751	25,437	149	2,654	4,630	7,928
Medical schools and medical centers	235	0	0	0	0	0	0	0	0
Schools of engineering	4	0	0	0	0	0	0	0	0
Other specialized institutions	19,002	2,457	0	18	2,415	0	0	0	6
Tribal colleges	1,603	279	49	10	38	3	0	0	17
Not classified	46,212	7,957	16	106	4,674	0	15	4	78

Degree and institution type	All fields	S&E field							
		All S&E	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology
Bachelor's	1,916,129	650,057	29,460	115,124	60,309	7,155	23,136	22,481	118,768
Doctorate-granting universities — very high research activity	474,852	239,879	12,655	43,939	14,340	2,786	9,616	7,925	29,727
Doctorate-granting universities — high research activity	277,111	98,419	4,713	17,808	7,250	1,203	2,790	3,039	16,321
Doctoral/ research universities	111,622	31,009	1,176	5,537	3,175	342	994	1,045	6,719
Master's colleges and universities	697,075	184,770	7,201	30,410	20,003	1,862	6,603	6,584	48,638
Baccalaureate colleges	211,522	73,498	3,231	15,904	6,500	936	2,943	3,701	15,082
Associate's colleges	15,266	2,086	90	168	1,471	0	13	0	127
Medical schools and medical centers	6,017	19	0	19	0	0	0	0	0
Schools of engineering	1,457	1,332	0	10	89	12	17	21	0
Other specialized institutions	52,706	3,033	0	482	1,745	0	6	24	501
Tribal colleges	356	126	35	4	12	3	0	0	4
Not classified	68,145	15,886	359	843	5,724	11	154	142	1,649
Master's	763,980	180,955	5,792	14,370	31,552	2,212	8,269	4,744	24,029
Doctorate-granting universities — very high research activity	215,096	76,457	3,136	6,890	11,197	1,244	4,817	2,751	1,957

Degree and institution type	All fields	S&E field							
		All S&E	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology
Doctorate-granting universities — high research activity	111,476	33,972	1,106	2,295	6,393	597	1,665	993	2,608
Doctoral/ research universities	70,977	15,023	268	781	2,678	76	547	331	4,600
Master's colleges and universities	272,784	45,939	1,120	2,924	9,717	261	1,138	636	10,943
Baccalaureate colleges	18,880	1,565	152	78	101	18	24	14	628
Associate's colleges	802	137	1	72	34	0	0	0	26
Medical schools and medical centers	9,615	1,345	4	1,151	4	2	0	1	101
Schools of engineering	515	446	0	0	115	9	0	3	0
Other specialized institutions	28,901	2,871	0	63	400	0	0	5	2,130
Tribal colleges	30	4	0	0	0	0	0	0	0
Not classified	34,904	3,196	5	116	913	5	78	10	1,036
Doctorate	69,115	39,177	1,381	7,889	1,951	827	1,802	4,971	4,533
Doctorate-granting universities — very high research activity	42,086	28,121	999	5,774	1,352	703	1,483	3,920	1,562
Doctorate-granting universities — high research activity	11,979	6,563	314	916	419	115	296	911	938
Doctoral/ research universities	7,403	2,153	26	141	111	3	16	72	1,242

Degree and institution type	All fields	S&E field							
		All S&E	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology
Master's colleges and universities	3,339	540	32	29	50	5	4	25	223
Baccalaureate colleges	549	114	0	2	0	0	3	7	93
Associate's colleges	23	15	0	4	0	0	0	0	11
Medical schools and medical centers	1,662	1,094	4	969	5	0	0	17	33
Schools of engineering	23	23	0	0	14	1	0	0	0
Other specialized institutions	1,020	422	0	8	0	0	0	5	386
Not classified	1,031	132	6	46	0	0	0	14	45

Note(s)

Medical and other health sciences are not included in S&E. Carnegie institution type corresponds to the 2010 Carnegie Classification of Institutions of Higher Education.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-2

Degrees awarded by private for-profit academic institutions, by broad field and degree level: 2000–15

(Number and percent)

Broad field and degree level	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Number															
All fields	103,517	113,566	122,874	139,595	167,391	187,200	215,323	236,543	256,950	290,900	328,410	386,560	418,080	397,870	372,175	347,491
Associate's	70,238	74,861	77,870	88,741	93,878	100,646	105,765	111,755	121,765	138,371	156,384	189,714	202,170	173,813	152,304	137,345
Bachelor's	21,350	24,461	27,828	32,509	43,143	49,189	62,139	70,707	76,465	84,902	97,213	114,171	132,196	141,310	139,738	133,689
Master's	11,248	13,303	16,386	17,362	29,031	35,728	45,765	51,810	55,954	64,817	71,862	79,453	80,366	78,714	75,434	71,750
Doctorate	681	941	790	983	1,339	1,637	1,654	2,271	2,766	2,810	2,951	3,222	3,348	4,033	4,699	4,707
S&E																
Associate's	8,112	10,797	14,568	18,913	17,504	15,637	14,052	12,781	13,577	16,187	19,755	24,460	26,106	21,433	19,137	16,357
Bachelor's	4,116	5,206	6,925	10,018	13,258	12,881	13,681	13,039	13,605	15,409	19,562	23,284	27,055	28,409	27,645	23,213
Master's	1,398	1,525	1,542	1,940	2,550	2,377	2,517	3,179	4,229	6,874	7,434	8,700	9,934	10,584	10,499	9,067
Doctorate	424	640	469	510	628	767	751	990	1,057	726	660	869	864	1,125	1,360	1,274
Non-S&E																
Associate's	62,126	64,064	63,302	69,828	76,374	85,009	91,713	98,974	108,188	122,184	136,629	165,254	176,064	152,380	133,167	120,988
Bachelor's	17,234	19,255	20,903	22,491	29,885	36,308	48,458	57,668	62,860	69,493	77,651	90,887	105,141	112,901	112,093	110,476
Master's	9,850	11,778	14,844	15,422	26,481	33,351	43,248	48,631	51,725	57,943	64,428	70,753	70,432	68,130	64,935	62,683
Doctorate	257	301	321	473	711	870	903	1,281	1,709	2,084	2,291	2,353	2,484	2,908	3,339	3,433

Broad field and degree level	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Percent															
All fields																
Associate's	12.2	12.8	13.0	13.9	14.0	14.3	14.7	15.2	16.1	17.4	18.3	20.0	19.7	17.1	15.0	13.4
Bachelor's	1.7	1.9	2.1	2.4	3.0	3.4	4.1	4.6	4.8	5.2	5.8	6.6	7.3	7.6	7.4	7.0
Master's	2.4	2.8	2.5	2.8	3.3	3.3	5.2	6.2	7.6	8.5	8.8	9.7	10.2	10.7	10.5	10.3
Doctorate	1.5	2.1	1.8	2.1	2.8	3.1	2.9	3.7	4.5	4.6	5.1	5.4	5.4	6.2	7.0	6.8
S&E																
Associate's	21.1	23.9	28.5	30.1	29.0	28.6	28.2	26.9	27.6	28.8	31.8	32.2	30.8	25.0	21.8	18.1
Bachelor's	1.0	1.3	1.7	2.3	2.9	2.7	2.9	2.7	2.7	3.0	3.7	4.2	4.6	4.6	4.3	3.6
Master's	1.4	1.5	1.5	1.8	2.1	2.0	2.1	2.6	3.3	5.1	5.3	5.8	6.2	6.4	6.1	5.0
Doctorate	1.7	2.5	1.9	2.0	2.4	2.7	2.5	3.0	3.2	2.2	2.0	2.2	2.4	3.0	3.5	3.3
Non-S&E																
Associate's	11.6	11.9	11.5	12.1	12.5	13.1	13.7	14.4	15.3	16.5	17.2	18.9	18.7	16.4	14.4	13.0
Bachelor's	2.0	2.2	2.3	2.4	3.1	3.7	4.7	5.5	5.8	6.2	6.8	7.7	8.6	9.1	8.9	8.7
Master's	2.7	3.2	3.8	3.8	6.0	7.3	9.0	9.9	10.2	10.9	11.5	12.1	11.8	11.5	11.0	10.8
Doctorate	1.3	1.5	1.6	2.3	3.2	3.6	3.5	4.5	6.0	7.3	9.2	9.2	9.3	10.4	11.6	11.4

Note(s)

Medical and other health sciences are included in non-S&E.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-3

Degrees awarded by private for-profit academic institutions, by field and degree level: 2015

(Number)

Field	Associate's	Bachelor's	Master's	Doctorate
All fields	137,345	133,689	71,750	4,707
S&E	16,357	23,213	9,067	1,274
Agricultural sciences	12	828	124	0
Biological sciences	45	159	7	4
Computer sciences	12,313	10,975	2,455	48
Mathematics	0	6	0	0
Physical sciences	23	2	0	0
Psychology	271	3,039	3,476	1,001
Social sciences	3,541	8,010	2,869	221
Engineering	152	164	136	0
Non-S&E	120,988	110,476	62,683	3,433
Architecture and environmental design	0	75	101	0
Arts and music	5,508	9,705	1,902	4
Business and management	23,185	44,073	28,672	1,214
Communication and librarianship	184	1,055	338	0
Education	2,152	4,433	11,667	1,610
Engineering technologies	7,916	3,291	399	0
English and literature	4	585	7	0
Health technologies	37,198	1,115	2,335	18
History	41	356	396	0
Law	46	418	175	0
Medical and other health sciences	14,936	29,688	12,183	415
Religion and theology	8	67	38	33
Science technologies	3	0	0	0
Social services	0	169	349	22

Field	Associate's	Bachelor's	Master's	Doctorate
Vocational studies and home economics	15,698	12,933	3,687	100
Other non-S&E	14,109	2,513	434	17

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-4

Distance education programs by institutional control, field, and degree level: 2015

(Number and percent)

Control and field	Associate's		Bachelor's		Master's		Doctoral/ research	
	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)
Public institutions								
4-year								
All fields	4,700	11.4	31,008	6.2	19,157	13.4	7,173	2.6
S&E	654	12.7	10,991	3.4	7,156	7.7	4,229	1.1
Engineering	57	0.0	1,688	1.7	1,463	17.6	911	2.1
Science	597	13.9	9,303	3.8	5,693	5.2	3,318	0.9
Natural sciences	526	12.7	5,450	2.6	3,594	4.9	2,402	0.7
Agricultural sciences	85	5.9	913	1.4	528	8.9	328	0.9
Biological sciences	34	0.0	1,379	0.6	1,345	1.9	1,149	0.3
Earth, atmospheric, and ocean sciences	7	0.0	440	0.4	263	1.1	178	1.1
Computer sciences	346	17.9	974	11.6	475	16.8	158	201.0
Mathematics	12	0.0	742	1.1	471	4.9	218	0.0
Physical sciences	42	0.0	1,002	0.0	512	0.0	371	0.0
Social and behavioral sciences	71	22.5	3,853	5.3	2,099	5.5	916	1.4
Psychology	12	33.3	603	10.6	489	3.5	266	1.1
Social sciences	59	20.3	3,250	4.3	1,610	6.1	650	1.5
Non-S&E	4,046	11.2	20,017	7.8	12,001	16.8	2,944	4.8
S&E technologies	1,244	4.7	1,315	10.6	459	20.7	53	5.7
Science technologies	31	3.2	15	26.7	9	11.0	1	0.0

Control and field	Associate's		Bachelor's		Master's		Doctoral/ research	
	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)
Engineering technologies	571	3.3	640	6.6	114	24.6	13	7.7
Health technologies	641	5.8	655	14.2	335	19.4	39	5.1
Other S&E technologies	1	100.0	5	0.0	1	100.0	0	0.0
Other non-S&E	2,802	14.1	18,702	7.6	11,542	16.6	2,891	4.7
2-year								
All fields	31,511	9.6	0	0.0	0	0.0	0	0.0
S&E	5,009	8.9	0	0.0	0	0.0	0	0.0
Engineering	514	3.3	0	0.0	0	0.0	0	0.0
Science	4,495	9.5	0	0.0	0	0.0	0	0.0
Natural sciences	3,437	8.9	0	0.0	0	0.0	0	0.0
Agricultural sciences	320	5.3	0	0.0	0	0.0	0	0.0
Biological sciences	348	3.2	0	0.0	0	0.0	0	0.0
Earth, atmospheric, and ocean sciences	79	1.3	0	0.0	0	0.0	0	0.0
Computer sciences	2,066	12.2	0	0.0	0	0.0	0	0.0
Mathematics	240	5.4	0	0.0	0	0.0	0	0.0
Physical sciences	384	3.1	0	0.0	0	0.0	0	0.0
Social and behavioral sciences	1,058	11.4	0	0.0	0	0.0	0	0.0
Psychology	228	13.2	0	0.0	0	0.0	0	0.0
Social sciences	830	11.0	0	0.0	0	0.0	0	0.0
Non-S&E	26,502	9.8	0	0.0	0	0.0	0	0.0
S&E technologies	6,824	3.7	0	0.0	0	0.0	0	0.0

Control and field	Associate's		Bachelor's		Master's		Doctoral/ research	
	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)
Science technologies	181	2.2	0	0.0	0	0.0	0	0.0
Engineering technologies	2,900	2.8	0	0.0	0	0.0	0	0.0
Health technologies	3,732	4.4	0	0.0	0	0.0	0	0.0
Other S&E technologies	11	9.1	0	0.0	0	0.0	0	0.0
Other non-S&E	19,678	11.9	0	0.0	0	0.0	0	0.0
Private non-profit institutions								
All fields	3,844	18.2	41,726	6.3	15,876	17.5	3,446	3.9
S&E	489	17.4	12,673	3.5	3,618	11.6	1,789	1.3
Engineering	35	5.7	961	0.9	687	17.0	359	2.5
Science	454	18.3	11,712	3.7	2,931	10.3	1,430	1.0
Natural sciences	339	18.0	6,420	3.0	1,577	10.3	934	0.9
Agricultural sciences	31	3.2	635	1.9	96	11.4	18	0.0
Biological sciences	42	9.5	1,981	1.0	680	2.6	556	0.2
Earth, atmospheric, and ocean sciences	1	0.0	204	1.0	64	0.0	46	0.0
Computer sciences	238	22.7	1,269	10.7	352	33.2	72	9.7
Mathematics	12	8.3	1,001	1.6	193	4.7	96	0.0
Physical sciences	15	6.7	1,330	0.4	192	4.2	146	0.0
Social and behavioral sciences	115	19.1	5,292	4.6	1,354	10.2	496	1.4
Psychology	36	30.5	1,126	11.4	574	8.4	207	2.9
Social sciences	79	13.9	4,166	2.8	780	11.5	289	0.3
Non-S&E	3,355	18.4	29,053	7.4	12,258	19.3	1,657	6.7
S&E technologies	645	8.8	860	9.4	465	12.9	21	9.5
Science technologies	6	16.7	16	31.2	1	0.0	0	0.0

Control and field	Associate's		Bachelor's		Master's		Doctoral/ research	
	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)
Engineering technologies	145	6.9	206	7.8	59	18.6	5	0.0
Health technologies	492	9.3	633	9.2	399	11.5	16	12.5
Other S&E technologies	2	0.0	5	40.0	6	50.0	0	0.0
Other non-S&E	2,710	20.6	28,193	7.4	11,793	19.6	1,636	6.7
Private for-profit institutions								
4-year								
All fields	4,679	29.6	4,823	44.0	1,722	61.4	262	40.4
S&E	815	29.3	1,127	48.4	309	68.0	57	42.1
Engineering	10	80.0	25	32.0	14	50.0	0	0.0
Science	805	28.7	1,102	48.8	295	68.8	57	42.1
Natural sciences	758	27.6	944	45.0	147	73.5	7	85.7
Agricultural sciences	1	0.0	20	95.0	11	100.0	0	0.0
Biological sciences	2	50.0	8	12.5	1	0.0	1	0.0
Earth, atmospheric, and ocean sciences	0	0.0	0	0.0	0	0.0	0	0.0
Computer sciences	755	27.5	912	44.4	135	71.8	6	100.0
Mathematics	0	0.0	2	0.0	0	0.0	0	0.0
Physical sciences	0	0.0	2	0.0	0	0.0	0	0.0
Social and behavioral sciences	47	46.8	158	71.5	148	64.2	50	36.0
Psychology	21	9.5	66	39.4	79	51.9	46	30.4
Social sciences	26	76.9	92	94.6	69	78.3	4	100.0
Non-S&E	3,864	29.7	3,696	42.8	1,413	59.9	205	40.0
S&E technologies	1,177	24.0	319	14.4	54	20.4	2	50.0

Control and field	Associate's		Bachelor's		Master's		Doctoral/ research	
	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)
Science technologies	3	0.0	0	0.0	0	0.0	0	0.0
Engineering technologies	365	5.8	231	10.8	2	100.0	0	0.0
Health technologies	806	32.1	86	22.1	52	17.3	2	50.0
Other S&E technologies	3	100.0	2	100.0	0	0.0	0	0.0
Other non-S&E	2,687	32.2	3,377	45.4	1,359	61.5	203	39.9
2-year								
All fields	2,255	14.4	4	25.0	0	0.0	0	0.0
S&E	200	9.5	2	0.0	0	0.0	0	0.0
Engineering	2	50.0	1	0.0	0	0.0	0	0.0
Science	198	9.1	1	0.0	0	0.0	0	0.0
Natural sciences	198	9.1	1	0.0	0	0.0	0	0.0
Agricultural sciences	1	100.0	0	0.0	0	0.0	0	0.0
Biological sciences	2	50.0	0	0.0	0	0.0	0	0.0
Earth, atmospheric, and ocean sciences	0	0.0	0	0.0	0	0.0	0	0.0
Computer sciences	194	8.8	1	0.0	0	0.0	0	0.0
Mathematics	0	0.0	0	0.0	0	0.0	0	0.0
Physical sciences	1	0.0	0	0.0	0	0.0	0	0.0
Social and behavioral sciences	0	0.0	0	0.0	0	0.0	0	0.0
Psychology	0	0.0	0	0.0	0	0.0	0	0.0
Social sciences	0	0.0	0	0.0	0	0.0	0	0.0
Non-S&E	2,055	14.9	2	50.0	0	0.0	0	0.0

Control and field	Associate's		Bachelor's		Master's		Doctoral/ research	
	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)	Total	Distance education (%)
S&E technologies	956	13.9	0	0.0	0	0.0	0	0.0
Science technologies	0	0.0	0	0.0	0	0.0	0	0.0
Engineering technologies	122	6.6	0	0.0	0	0.0	0	0.0
Health technologies	834	15.0	0	0.0	0	0.0	0	0.0
Other S&E technologies	0	0.0	0	0.0	0	0.0	0	0.0
Other non-S&E	1,099	15.7	2	50.0	0	0.0	0	0.0

Note(s)

Engineering technologies are focused more on applied skills than on fundamental science and mathematics. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data from *Science and Engineering Indicators 2008* and earlier years that were based on accredited higher education institutions.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

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APPENDIX TABLE 2-5

Undergraduate and total enrollment in higher education, by Carnegie institution type: 2000–15

(Number)

Year	All institutions	Doctorate-granting universities — very high research activity	Doctorate-granting universities — high research activity	Doctoral/ research universities	Master's colleges and universities	Baccalaureate colleges	Associate's colleges	Medical schools and medical centers	Schools of engineering	Other special-focus institutions	Tribal colleges	Not classified
Undergraduate enrollment												
2000	13,329,803	1,719,504	1,125,321	462,975	2,720,644	1,081,865	5,739,088	13,491	9,169	193,696	13,603	250,447
2001	13,895,335	1,764,724	1,156,958	489,260	2,824,105	1,118,359	6,104,082	13,268	9,244	213,588	13,835	187,912
2002	14,444,738	1,802,603	1,187,781	511,419	2,925,381	1,158,924	6,424,455	12,634	9,217	231,635	15,343	165,346
2003	14,666,119	1,824,259	1,202,071	536,510	3,003,697	1,182,851	6,485,355	12,563	9,295	246,010	17,527	145,981
2004	14,974,136	1,830,746	1,215,495	577,482	3,084,864	1,204,865	6,611,034	13,331	9,237	271,975	17,180	137,927
2005	15,157,730	1,845,961	1,220,299	580,383	3,228,183	1,220,137	6,638,361	13,325	9,291	289,518	16,879	95,393
2006	15,379,340	1,867,178	1,235,926	629,485	3,261,174	1,226,350	6,733,782	13,281	9,599	301,830	17,071	83,664
2007	15,799,911	1,889,120	1,255,393	691,830	3,342,695	1,235,442	6,947,933	13,315	9,557	313,525	17,222	83,879
2008	16,570,857	1,933,487	1,276,090	774,634	3,508,566	1,285,628	7,368,489	13,939	9,487	330,105	16,798	53,634
2009	17,778,741	1,966,982	1,309,390	866,197	3,699,649	1,356,407	8,155,018	14,113	9,377	359,041	19,507	23,060
2010	18,312,649	1,995,701	1,340,538	830,631	3,796,023	1,407,614	8,401,309	14,559	9,158	375,238	21,014	120,864
2011	18,299,791	2,023,129	1,369,440	836,182	3,834,973	1,417,963	8,211,697	14,873	9,041	358,354	18,777	205,362

Year	All institutions	Doctorate-granting universities — very high research activity	Doctorate-granting universities — high research activity	Doctoral/ research universities	Master's colleges and universities	Baccalaureate colleges	Associate's colleges	Medical schools and medical centers	Schools of engineering	Other special-focus institutions	Tribal colleges	Not classified
2012	17,963,547	2,045,667	1,380,936	791,941	3,843,334	1,407,583	7,887,474	14,534	9,128	350,945	18,819	213,186
2013	17,700,719	2,054,113	1,378,748	750,608	3,740,163	1,376,984	7,672,416	13,282	9,273	332,611	17,907	354,614
2014	17,519,741	2,086,405	1,396,448	583,815	3,727,183	1,356,438	7,452,412	12,383	9,396	305,748	17,516	571,997
2015	17,255,558	2,116,488	1,415,300	581,646	3,683,148	1,322,171	7,219,879	12,505	9,512	286,285	16,730	591,894
Total enrollment												
2000	15,506,922	2,424,538	1,484,966	643,689	3,384,447	1,121,506	5,740,898	76,973	10,213	308,065	13,680	297,947
2001	16,129,629	2,483,646	1,526,997	685,362	3,517,030	1,157,533	6,105,526	78,162	10,455	329,024	13,996	221,898
2002	16,822,915	2,558,455	1,577,560	730,727	3,681,547	1,199,359	6,426,331	80,595	10,663	355,532	15,468	186,678
2003	17,118,126	2,593,906	1,599,392	778,843	3,776,865	1,224,609	6,488,052	82,081	10,830	379,140	17,776	166,632
2004	17,492,964	2,604,610	1,615,367	844,762	3,878,652	1,247,440	6,613,895	87,260	10,765	413,889	17,605	158,719
2005	17,710,640	2,620,649	1,618,433	863,683	4,037,841	1,263,954	6,642,190	90,647	10,773	435,319	17,167	109,984
2006	17,985,045	2,651,949	1,636,192	921,489	4,096,542	1,270,865	6,737,208	93,438	11,094	450,204	17,255	98,809
2007	18,474,977	2,691,983	1,665,194	998,984	4,200,593	1,282,243	6,951,546	96,616	11,016	464,631	17,418	94,753
2008	19,338,981	2,748,682	1,695,467	1,110,746	4,401,273	1,337,340	7,372,093	101,675	10,883	484,456	17,014	59,352
2009	20,671,503	2,809,366	1,746,651	1,219,751	4,636,037	1,415,501	8,159,022	106,789	10,809	521,473	19,686	26,418
2010	21,280,059	2,854,408	1,785,934	1,193,468	4,739,501	1,472,032	8,406,072	111,305	10,681	545,510	21,225	139,923

Year	All institutions	Doctorate-granting universities — very high research activity	Doctorate-granting universities — high research activity	Doctoral/ research universities	Master's colleges and universities	Baccalaureate colleges	Associate's colleges	Medical schools and medical centers	Schools of engineering	Other special-focus institutions	Tribal colleges	Not classified
2011	21,260,978	2,886,167	1,810,490	1,195,172	4,743,566	1,484,333	8,214,689	114,420	10,582	530,478	18,920	252,161
2012	20,902,515	2,908,258	1,814,961	1,139,238	4,744,685	1,473,295	7,890,753	116,840	10,720	519,355	18,881	265,529
2013	20,630,064	2,920,503	1,804,986	1,090,311	4,636,652	1,444,925	7,675,927	109,383	10,868	497,788	18,083	420,638

Note(s)

Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data from *Science and Engineering Indicators 2008* and earlier years that were based on accredited higher education institutions. Carnegie institution type corresponds to the 2010 Carnegie Classification of Institutions of Higher Education.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey (various years); National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

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APPENDIX TABLE 2-6

Average revenue per FTE, by institution type: 2000–15

(2015 dollars)

Institution type and revenue source	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Community colleges[a]																
Net tuition	2,536	2,576	2,627	2,814	3,009	3,091	3,176	3,274	3,290	3,404	3,559	3,660	3,837	3,943	3,986	4,109
State and local appropriations	7,715	7,795	7,420	6,905	6,838	6,856	7,300	7,630	7,860	7,329	6,241	6,023	5,969	6,253	6,636	7,159
State and local grants and contracts	937	1,067	1005	1,049	1,076	978	1,033	1,111	1,133	1,170	926	874	884	947	1019	1151
Private and affiliated gifts, investment returns, and endowment income	243	233	232	203	178	244	321	405	325	194	168	159	150	136	166	148
Federal appropriations, grants, and contracts	862	904	915	972	974	951	938	934	956	999	1,095	1,062	914	894	879	895
Auxiliary enterprises[b]	919	933	977	994	1,025	1020	991	1001	994	1015	1020	1010	981	939	892	882
Hospitals, independent operations, and other sources[c]	543	581	628	484	509	401	414	431	493	415	476	471	467	483	493	504
4-year and graduate institutions (public)[d]																
Net tuition	4,613	4,664	4,838	5,194	5,740	6,052	6,264	6,416	6,539	6,785	7,190	7,467	7,720	7,869	7,897	8,082
State and local appropriations	8,802	8,915	8,638	7,966	7,584	7,385	7,628	7,932	8,123	7,508	6,743	6,588	6,118	6,115	6,403	6,571
State and local grants and contracts	760	851	1108	1,195	1,213	1,205	1,334	1,327	1,357	1,354	1,311	1,285	1,238	1,261	1,309	1,369
Private and affiliated gifts, investment returns, and endowment income	760	844	551	581	566	610	698	948	638	341	642	681	489	642	795	533
Federal appropriations, grants, and contracts	1,416	1,575	1,627	1,657	1,666	1,649	1,623	1,629	1,631	1,583	1,822	1,753	1,479	1,427	1,340	1,332
Auxiliary enterprises[b]	2,872	2,874	2,779	2,707	2,745	2,797	2,839	2,945	2,988	3,085	3,138	3,179	3,203	3,139	3,216	3,315
Hospitals, independent operations, and other sources[c]	1,234	1,199	1,253	1,276	1,296	1,369	1,273	1,321	1,261	1,385	1,526	1,523	1,366	1,410	1,689	1686

Institution type and revenue source	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Very high research institutions (public)																
Net tuition	6,470	6,527	6,742	7,150	7,801	8,285	8,575	8,778	9,020	9,560	10,274	11,020	11,602	12,010	12,327	12,741
State and local appropriations	13,944	14,221	13,817	12,679	11,856	11,588	11,829	12,328	12,627	11,436	10,560	10,099	8,928	8,794	9,141	9,216
State and local grants and contracts	1,379	1,447	3,477	3,529	3,532	3,706	3,740	3,935	4,033	4,361	4,249	4,370	4,166	4,336	4,239	4,118
Private and affiliated gifts, investment returns, and endowment income	3,928	4,239	2,100	3,475	3,841	3,955	4,323	6,035	2,671	-1,373	4,117	5,246	2,795	4,220	5,683	3,296
Federal appropriations, grants, and contracts	7,162	7,508	8,171	8,647	9,104	9,377	9,136	8,941	8,743	8,894	9,361	9,437	8,997	8,641	8,187	7,972
Auxiliary enterprises[b]	5,159	5,205	5,117	5,140	5,356	5,339	5,427	5,789	5,212	5,193	5,211	5,648	5,316	5,376	5,496	5,708
Hospitals, independent operations, and other sources[c]	10,346	10,667	10,636	10,181	11,064	11,241	11,743	11,997	13,258	14,082	14,434	14,614	14,756	15,311	15,849	17,100
Very high research institutions (private)																
Net tuition	22,700	22,798	23,054	23,849	23,883	24,551	24,260	25,108	25,216	25,276	25,410	25,717	25,661	26,468	27,111	27,670
State and local appropriations	783	799	742	2,108	1,469	1,243	1,461	1,554	1,672	1,395	1,234	1,386	1,274	1,254	1,056	1,085
State and local grants and contracts	2,049	1,934	2,051	1,965	2,191	2,229	2,216	2,095	2,187	2,226	1,944	1,766	1,711	1,551	1,535	1,417
Private and affiliated gifts, investment returns, and endowment income	129,142	16,016	10,564	42,051	83,145	87,753	94,240	129,738	42,901	-89,901	64,314	108,438	37,728	76,617	111,575	66,723
Federal appropriations, grants, and contracts	22,508	23,381	25,392	27,459	29,673	30,948	30,113	29,285	28,231	28,502	29,225	30,446	28,973	27,926	26,109	25,740
Auxiliary enterprises[b]	8,110	8,308	8,453	8,482	8,268	8,198	8,438	8,847	8,773	8,809	8,890	8,892	9,097	9,209	8,987	9,140
Hospitals, independent operations, and other sources[c]	38,077	38,757	38,803	39,156	42,355	45,204	46,623	49,828	51,108	49,073	51,867	57,053	55,329	58,202	59,951	62,148

FTE = full-time equivalent.

[a] Public associate's colleges and universities.

[b] Includes activities that are generally self-supporting, such as residence halls, food services, student health services, and intercollegiate athletics.

[c] Includes revenue generated by hospitals operated by the institution and revenues independent or unrelated to instruction, research, or public services.

[d] Includes doctorate-granting universities — high research activity, doctoral/research universities, master's colleges and universities, and baccalaureate colleges.

Note(s)

Institution type corresponds to the 2010 Carnegie Classification of Institutions of Higher Education. For definitions of standard revenue categories, see Delta Cost Project Trends in College Spending: 2000–13.

Source(s)

Integrated Postsecondary Education Data System (IPEDS) Analytics: Delta Cost Project Database: 2000–2015 (16-year matched set), special tabulations (2017).

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APPENDIX TABLE 2-7

Average expenditures per FTE, by institution type: 2000–15

(2015 dollars)

Institution type and expenditure	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Community colleges[a]																
Instruction	5,867	5,911	5,642	5,355	5,326	5,355	5,490	5,697	5,785	5,615	5,240	5,174	5,257	5,517	5,649	5,979
Research	61	42	68	58	41	58	74	56	48	78	64	69	55	58	78	44
Public service	458	481	450	435	404	402	406	389	399	384	351	331	332	336	325	343
Academic support	1,146	1,180	1,127	1,028	1006	1016	1,047	1,076	1,107	1,078	994	975	1008	1067	1127	1,215
Student services	1,358	1,343	1,318	1,287	1,268	1,290	1,323	1,381	1,386	1,383	1,291	1,254	1,303	1,380	1,430	1,541
Institutional support	1,996	2,033	1,948	1,838	1,886	1,868	1,928	2,005	2,080	2,027	1,841	1,843	1,886	2,010	2,101	2,241
Plant operation and maintenance	1,232	1,271	1,271	1,217	1,197	1,219	1,308	1,348	1,365	1,328	1,126	1,093	1,107	1,153	1,215	1,293
Scholarships and fellowships	1,670	1,828	1,501	1,329	1,232	1,135	1,052	1013	1104	1,275	1,761	1,899	1,754	1,672	1,599	1,565
Auxiliary enterprises, hospitals, and clinics, and independent and other operations[b]	955	973	1274	1,098	1,184	1,172	1,155	1,243	1,351	1,453	1,482	1,512	1,496	1,484	1,479	1,466
4-year and graduate institutions (public)[c]																
Instruction	6,980	7,085	7,019	6,897	6,841	6,835	6,913	7,108	7,319	7,361	7,391	7,426	7,319	7,435	7,628	7,799
Research	1003	1,070	1,074	1,105	1,119	1,134	1,113	1,113	1,104	1,110	1,158	1,140	1,123	1,094	1,079	1,077
Public service	833	879	883	885	851	866	862	836	824	813	795	786	749	750	752	765
Academic support	1,782	1,835	1,685	1,650	1,651	1,671	1,697	1,733	1,798	1,820	1,830	1,819	1,811	1,879	1,930	1,976
Student services	1,431	1,463	1,455	1,422	1,416	1,433	1,458	1,503	1,570	1,592	1,616	1,633	1,640	1,701	1,779	1,832

Institution type and expenditure	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Institutional support	2,269	2,286	2,237	2,222	2,227	2,179	2,229	2,292	2,390	2,372	2,357	2,324	2,329	2,364	2,440	2,514
Plant operation and maintenance	1,615	1,681	1,759	1,693	1,701	1,801	1,916	1,939	1,966	1,937	1,591	1,598	1,558	1,591	1,657	1,692
Scholarships and fellowships	2,180	2,339	1,260	1,134	1,081	1,048	1013	1028	1,067	1,141	1,428	1,527	1,406	1,374	1,338	1,338
Auxiliary enterprises, hospitals, and clinics, and independent and other operations[b]	3,199	3,175	3,148	3,105	3,046	3,070	3,121	3,206	3,522	3,584	3,761	3,767	3,832	3,764	4,074	4,112
Very high research institutions (public)																
Instruction	12,248	12,507	12,449	12,283	12,020	12,287	12,452	12,823	13,038	13,156	13,325	13,334	13,304	13,571	13,958	14,454
Research	8,892	9,099	9,176	9,402	9,616	9,719	9,608	9,609	9,767	10,054	10,545	10,759	10,502	10,527	10,136	9,894
Public service	3,028	3,085	3,004	2,960	3,079	2,994	2,993	3,071	3,189	3,141	3,291	3,263	3,255	3,181	3,232	3,331
Academic support	3,497	3,597	3,231	3,143	3,126	3,167	3,288	3,415	3,898	4,002	4,115	3,851	3,984	4,118	4,229	4,362
Student services	1,358	1,376	1,396	1,379	1,370	1,409	1,420	1,459	1,514	1,529	1,571	1,579	1,631	1,698	1,806	1,867
Institutional support	2,700	2,729	2,690	2,706	2,565	2,626	2,783	2,972	3,087	3,071	3,101	3,109	3,076	3,205	3,270	3,410
Plant operation and maintenance	2,297	2,412	2,511	2,369	2,476	2,574	2,729	2,771	2,730	2,680	2,188	2,240	2,256	2,287	2,341	2,294
Scholarships and fellowships	2,626	2,750	1,400	1,285	1,250	1,279	1,299	1,335	1,382	1,402	1,573	1,644	1,535	1,559	1,538	1,502
Auxiliary enterprises, hospitals, and clinics, and independent and other operations[b]	11,410	12,194	11,926	11,816	12,491	12,727	13,171	13,581	14,677	14,930	15,154	15,787	16,135	16,389	17,216	17,811
Very high research institutions (private)																
Instruction	31,982	32,351	34,210	36,645	37,147	38,857	38,967	41,044	41,284	42,602	41,487	41,659	42,250	42,599	44,323	45,894
Research	21,856	22,468	24,500	26,255	27,633	28,461	28,009	27,830	27,652	28,232	28,642	29,726	28,608	27,634	27,062	27,422
Public service	2,358	2,368	2,468	3,113	2,764	2,989	3,209	3,009	3,002	3,106	2,955	2,831	2,775	2,418	2,464	2,611
Academic support	7,444	8,077	8,265	8,359	8,417	8,418	8,850	9,181	9,957	10,391	10,014	10,106	10,224	10,670	10,879	11,258

Institution type and expenditure	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Student services	3,741	3,957	4,222	4,258	4,331	4,737	5,137	5,203	5,225	5,504	5,352	5,369	5,229	5,520	5,711	6,010
Institutional support	9,357	9,710	9,993	10,559	10,651	10,955	11,092	11,487	12,253	12,752	12,134	11,979	12,004	12,006	12,280	12,876
Plant operation and maintenance	5,924	5,951	6,312	6,076	7,186	7,594	8,562	8,104	9,142	9,831	8,766	8,014	7,858	8,519	8,213	7,928
Scholarships and fellowships	1,778	1,897	2,038	2,190	2,409	2,295	2,381	2,364	2,377	2,548	2,435	2,338	2,709	2,703	2,811	3,071
Auxiliary enterprises, hospitals, and clinics, and independent and other operations[b]	33,566	35,608	36,622	36,871	36,912	37,621	38,396	39,204	39,418	40,607	43,375	43,545	44,883	44,825	47,256	48,982

FTE = full-time equivalent.

[a] Public associate's colleges and universities.

[b] Includes user-fee activities that do not receive general support. Auxiliary enterprises include dormitories, bookstores, and meal services.

[c] Includes doctorate-granting universities — high research activity, doctoral/research universities, master's colleges and universities, and baccalaureate colleges.

Note(s)

Institution type corresponds to the 2010 Carnegie Classification of Institutions of Higher Education. For definitions of standard expense categories, see Delta Cost Project Trends in College Spending: 2000–13. Changes in financial accounting standards during the early 2000s affected public institutions' reporting of scholarships and fellowships in the Integrated Postsecondary Education Data System (IPEDS). Scholarship and fellowship data from 2002 on are not comparable with earlier years' data.

Source(s)

IPEDS Analytics: Delta Cost Project Database: 2000–2015 (16-year matched set), special tabulations (2017).

Science and Engineering Indicators 2018

APPENDIX TABLE 2-8

Full-time S&E graduate students, by source and mechanism of primary support: 2000–15

(Number and percent)

Source and year	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support[a]	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All sources														
2000	341,283	100.0	94,323	27.6	31,330	9.2	14,171	4.2	66,423	19.5	22,604	6.6	112,432	32.9
2001	354,522	100.0	99,923	28.2	32,270	9.1	14,154	4.0	68,267	19.3	23,272	6.6	116,636	32.9
2002	378,991	100.0	108,185	28.5	34,849	9.2	15,006	4.0	70,732	18.7	23,565	6.2	126,654	33.4
2003	397,420	100.0	114,256	28.7	34,460	8.7	15,126	3.8	73,105	18.4	25,743	6.5	134,730	33.9
2004	402,573	100.0	114,768	28.5	35,034	8.7	14,903	3.7	73,009	18.1	27,781	6.9	137,078	34.1
2005	406,620	100.0	114,304	28.1	36,414	9.0	14,570	3.6	74,238	18.3	27,691	6.8	139,403	34.3
2006	419,015	100.0	114,774	27.4	36,689	8.8	14,571	3.5	75,911	18.1	30,464	7.3	146,606	35.0
2007[b]	427,146	100.0	114,802	26.9	38,033	8.9	13,450	3.1	77,022	18.0	31,569	7.4	152,270	35.6
2008	437,242	100.0	116,979	26.8	37,861	8.7	13,299	3.0	79,595	18.2	29,523	6.8	159,985	36.6
2009	441,744	100.0	120,008	27.2	38,115	8.6	12,799	2.9	78,318	17.7	29,791	6.7	162,713	36.8
2010	446,455	100.0	122,346	27.4	38,984	8.7	12,422	2.8	79,445	17.8	30,027	6.7	163,231	36.6
2011	444,991	100.0	121,010	27.2	40,583	9.1	12,557	2.8	80,719	18.1	29,799	6.7	160,323	36.0
2012	448,065	100.0	117,829	26.3	41,433	9.2	11,590	2.6	82,967	18.5	32,140	7.2	162,106	36.2
2013	457,368	100.0	114,867	25.1	42,774	9.4	10,462	2.3	84,972	18.6	31,892	7.0	172,401	37.7

Source and year	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support[a]	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2014[c]	480,461	100.0	114,205	23.8	42,492	8.8	11,187	2.3	87,388	18.2	33,310	6.9	191,879	39.9
2015	495,213	100.0	114,916	23.2	42,935	8.7	11,120	2.2	89,019	18.0	36,110	7.3	201,113	40.6
Federal														
2000	67,588	100.0	44,620	66.0	7,475	11.1	9,544	14.1	1,371	2.0	4,578	6.8	-	-
2001	68,843	100.0	46,205	67.1	7,406	10.8	9,497	13.8	1,077	1.6	4,658	6.8	-	-
2002	75,538	100.0	51,621	68.3	7,899	10.5	9,996	13.2	1,227	1.6	4,795	6.3	-	-
2003	81,761	100.0	57,255	70.0	7,608	9.3	10,090	12.3	1,531	1.9	5,277	6.5	-	-
2004	83,816	100.0	58,559	69.9	7,965	9.5	9,916	11.8	1,533	1.8	5,843	7.0	-	-
2005	83,723	100.0	58,197	69.5	8,267	9.9	9,731	11.6	1,596	1.9	5,932	7.1	-	-
2006	83,962	100.0	57,547	68.5	8,251	9.8	9,754	11.6	1,659	2.0	6,751	8.0	-	-
2007[b]	81,602	100.0	57,259	70.2	8,598	10.5	8,606	10.5	1,574	1.9	5,565	6.8	-	-
2008	78,215	100.0	55,375	70.8	8,291	10.6	8,206	10.5	1,015	1.3	5,328	6.8	-	-
2009	81,205	100.0	58,341	71.8	8,592	10.6	8,068	9.9	1,248	1.5	4,956	6.1	-	-
2010	85,877	100.0	62,558	72.8	9,534	11.1	7,649	8.9	1,091	1.3	5,045	5.9	-	-
2011	84,816	100.0	61,799	72.9	9,766	11.5	7,600	9.0	1,091	1.3	4,560	5.4	-	-
2012	80,638	100.0	58,070	72.0	10,409	12.9	6,952	8.6	903	1.1	4,304	5.3	-	-
2013	76,507	100.0	55,320	72.3	9,913	13.0	6,259	8.2	916	1.2	4,099	5.4	-	-

Source and year	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support[a]	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2014[c]	72,445	100.0	52,317	72.2	9,690	13.4	6,094	8.4	762	1.1	3,582	4.9	-	-
2015	72,075	100.0	51,404	71.3	9,420	13.1	6,068	8.4	864	1.2	4,319	6.0	-	-
Nonfederal														
2000	161,263	100.0	49,703	30.8	23,855	14.8	4,627	2.9	65,052	40.3	18,026	11.2	-	-
2001	169,043	100.0	53,718	31.8	24,864	14.7	4,657	2.8	67,190	39.7	18,614	11.0	-	-
2002	176,799	100.0	56,564	32.0	26,950	15.2	5,010	2.8	69,505	39.3	18,770	10.6	-	-
2003	180,929	100.0	57,001	31.5	26,852	14.8	5,036	2.8	71,574	39.6	20,466	11.3	-	-
2004	181,679	100.0	56,209	30.9	27,069	14.9	4,987	2.7	71,476	39.3	21,938	12.1	-	-
2005	183,494	100.0	56,107	30.6	28,147	15.3	4,839	2.6	72,642	39.6	21,759	11.9	-	-
2006	188,447	100.0	57,227	30.4	28,438	15.1	4,817	2.6	74,252	39.4	23,713	12.6	-	-
2007[b]	193,274	100.0	57,543	29.8	29,435	15.2	4,844	2.5	75,448	39.0	26,004	13.5	-	-
2008	199,042	100.0	61,604	31.0	29,570	14.9	5,093	2.6	78,580	39.5	24,195	12.2	-	-
2009	197,826	100.0	61,667	31.2	29,523	14.9	4,731	2.4	77,070	39.0	24,835	12.6	-	-
2010	197,347	100.0	59,788	30.3	29,450	14.9	4,773	2.4	78,354	39.7	24,982	12.7	-	-
2011	199,852	100.0	59,211	29.6	30,817	15.4	4,957	2.5	79,628	39.8	25,239	12.6	-	-
2012	205,321	100.0	59,759	29.1	31,024	15.1	4,638	2.3	82,064	40.0	27,836	13.6	-	-
2013	208,460	100.0	59,547	28.6	32,861	15.8	4,203	2.0	84,056	40.3	27,793	13.3	-	-

Source and year	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support[a]	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2014[c]	216,137	100.0	61,888	28.6	32,802	15.2	5,093	2.4	86,626	40.1	29,728	13.8	-	-
2015	222,025	100.0	63,512	28.6	33,515	15.1	5,052	2.3	88,155	39.7	31,791	14.3	-	-

- = no value possible.

[a] Includes any loans (including federal) and support from personal or family financial contributions, and self-support is not counted under federal or nonfederal sources.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. Because of methodological changes, counts should be used with caution for trend analysis. For more details, see appendix A in https://www.nsf.gov/statistics/nsf10307/.

[c] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed U.S. academic institutions with master's- or doctorate-granting programs in science, engineering, or health. For more details on the impact of the frame update, see https://www.nsf.gov/statistics/2016/nsf16314/.

Note(s)

S&E includes health fields (medical sciences and other health sciences), and excludes newly eligible fields (architecture, communication, and family and consumer sciences and human sciences) added starting in 2007. Therefore, the S&E numbers in this table differ from the data used in National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering (annual series), and elsewhere. Percentages may not add to 100% because of rounding. The survey changes in 2007 and 2014 may affect interpretation of trends.

Source(s)

National Science Foundation, National Center for Science and Engineering Statisticsspecial tabulations (2016), 2015 Survey of Graduate Students and Postdoctorates in Science and Engineering.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-9

Full-time S&E graduate students, by field and mechanism of primary support: 2015

(Number and percent)

Field	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support[a]	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
S&E	495,213	100.0	114,916	23.2	42,935	8.7	11,120	2.2	89,019	18.0	36,110	7.3	201,113	40.6
Engineering	126,733	100.0	38,949	30.7	9,230	7.3	1,110	0.9	14,994	11.8	8,422	6.6	54,028	42.6
Aerospace	4,039	100.0	1,633	40.4	339	8.4	72	1.8	497	12.3	289	7.2	1,209	29.9
Chemical	8,835	100.0	4,044	45.8	1,060	12.0	76	0.9	1,028	11.6	402	4.6	2,225	25.2
Civil	15,443	100.0	4,775	30.9	1,008	6.5	82	0.5	2,070	13.4	1,337	8.7	6,171	40.0
Electrical	40,519	100.0	9,854	24.3	1,865	4.6	122	0.3	4,232	10.4	2,458	6.1	21,988	54.3
Industrial	10,215	100.0	1,480	14.5	406	4.0	83	0.8	1,111	10.9	777	7.6	6,358	62.2
Materials	6,826	100.0	3,545	51.9	757	11.1	50	0.7	648	9.5	246	3.6	1,580	23.1
Mechanical	20,320	100.0	6,100	30.0	1,356	6.7	160	0.8	3,148	15.5	1,472	7.2	8,084	39.8
Other	20,536	100.0	7,518	36.6	2,439	11.9	465	2.3	2,260	11.0	1,441	7.0	6,413	31.2
Science	368,480	100.0	75,967	20.6	33,705	9.1	10,010	2.7	74,025	20.1	27,688	7.5	147,085	39.9
Natural sciences	259,192	100.0	62,940	24.3	21,361	8.2	8,141	3.1	50,653	19.5	17,381	6.7	98,716	38.1
Agricultural sciences	13,071	100.0	6,154	47.1	965	7.4	43	0.3	1,896	14.5	679	5.2	3,334	25.5
Biological sciences[b]	71,122	100.0	23,689	33.3	9,287	13.1	5,563	7.8	10,933	15.4	4,871	6.8	16,779	23.6
Earth, atmospheric, and ocean sciences	12,286	100.0	4,362	35.5	1,491	12.1	92	0.7	3,125	25.4	723	5.9	2,493	20.3

Field	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support[a]	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Atmospheric sciences	1,201	100.0	726	60.4	67	5.6	28	2.3	220	18.3	21	1.7	139	11.6
Earth sciences	7,053	100.0	2,213	31.4	842	11.9	28	0.4	2,250	31.9	450	6.4	1,270	18.0
Oceanography	2,081	100.0	953	45.8	249	12.0	6	0.3	382	18.4	109	5.2	382	18.4
Other geosciences	1,951	100.0	470	24.1	333	17.1	30	1.5	273	14.0	143	7.3	702	36.0
Mathematics and computer sciences	79,482	100.0	9,968	12.5	3,472	4.4	441	0.6	16,032	20.2	4,447	5.6	45,122	56.8
Computer sciences	58,329	100.0	8,201	14.1	1,762	3.0	258	0.4	6,069	10.4	3,491	6.0	38,548	66.1
Mathematics and statistics	21,153	100.0	1,767	8.4	1,710	8.1	183	0.9	9,963	47.1	956	4.5	6,574	31.1
Medical and other health sciences	46,857	100.0	5,381	11.5	2,191	4.7	1,644	3.5	4,100	8.8	5,493	11.7	28,048	59.9
Medical sciences	24,937	100.0	3,506	14.1	1,405	5.6	1,025	4.1	1,958	7.9	2,863	11.5	14,180	56.9
Other health sciences	21,920	100.0	1,875	8.6	786	3.6	619	2.8	2,142	9.8	2,630	12.0	13,868	63.3
Physical sciences	36,374	100.0	13,386	36.8	3,955	10.9	358	1.0	14,567	40.0	1,168	3.2	2,940	8.1
Astronomy	1,256	100.0	603	48.0	270	21.5	20	1.6	287	22.9	21	1.7	55	4.4
Chemistry	20,584	100.0	6,827	33.2	2,312	11.2	206	1.0	8,985	43.7	564	2.7	1,690	8.2
Physics	14,075	100.0	5,806	41.3	1,344	9.5	109	0.8	5,215	37.1	532	3.8	1,069	7.6
Other physical sciences	459	100.0	150	32.7	29	6.3	23	5.0	80	17.4	51	11.1	126	27.5
Social and behavioral sciences	103,901	100.0	11,930	11.5	11,943	11.5	1,716	1.7	22,594	21.7	9,650	9.3	46,068	44.3
Psychology	35,478	100.0	4,798	13.5	2,241	6.3	789	2.2	6,634	18.7	3,270	9.2	17,746	50.0

Field	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support[a]	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Social sciences	68,423	100.0	7,132	10.4	9,702	14.2	927	1.4	15,960	23.3	6,380	9.3	28,322	41.4
Anthropology	5,873	100.0	431	7.3	1,337	22.8	117	2.0	1,998	34.0	375	6.4	1,615	27.5
Economics	13,939	100.0	2,243	16.1	2,177	15.6	68	0.5	4,012	28.8	899	6.4	4,540	32.6
History of science	341	100.0	42	12.3	157	46.0	0	0.0	96	28.2	7	2.1	39	11.4
Linguistics	2,540	100.0	230	9.1	369	14.5	47	1.9	898	35.4	189	7.4	807	31.8
Political science and public administration	26,706	100.0	1,969	7.4	3,344	12.5	356	1.3	3,494	13.1	3,173	11.9	14,370	53.8
Sociology	6,532	100.0	880	13.5	1,056	16.2	149	2.3	2,412	36.9	518	7.9	1,517	23.2
Other social sciences	12,492	100.0	1,337	10.7	1,262	10.1	190	1.5	3,050	24.4	1,219	9.8	5,434	43.5
Multidisciplinary and interdisciplinary studies	5,387	100.0	1,097	20.4	401	7.4	153	2.8	778	14.4	657	12.2	2,301	42.7

[a] Includes any loans (including federal) and support from personal or family financial contributions.

[b] Includes neuroscience.

Note(s)

S&E includes health fields (medical sciences and other health sciences) and excludes newly eligible fields (architecture, communication, and family and consumer sciences and human sciences) added starting in 2007. Therefore, the S&E numbers in this table differ from the data used in National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering (annual series), and elsewhere. Percentages may not add to 100% because of rounding.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Graduate Students and Postdoctorates in Science and Engineering.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-10

Full-time S&E graduate students primarily supported by federal government, by field: 2000–15

(Percent)

Field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
S&E	19.8	19.4	19.9	20.6	20.8	20.6	20.0	19.1	17.9	18.4	19.2	19.1	18.0	16.7	15.1	14.6
Engineering	23.1	22.0	22.1	23.8	24.5	25.1	24.3	23.4	22.2	23.0	24.2	23.8	22.5	20.8	18.5	17.6
Aerospace	34.2	34.4	33.3	36.9	37.5	37.5	34.3	32.6	33.5	33.9	32.6	34.3	33.6	31.4	31.2	28.4
Chemical	28.5	29.0	31.3	32.0	33.6	34.2	33.9	31.6	30.2	29.8	32.5	31.4	29.0	28.5	25.9	24.1
Civil	16.5	16.1	16.2	15.9	15.9	15.2	14.3	16.5	14.5	14.7	15.7	16.1	15.5	14.7	13.7	13.4
Electrical	22.0	19.7	20.2	21.4	22.4	23.4	21.9	20.2	20.2	21.4	21.9	21.6	20.6	18.1	15.3	14.9
Industrial	13.3	12.3	11.5	13.9	14.7	15.5	14.0	11.1	10.7	12.0	14.0	13.3	13.2	11.9	10.1	8.5
Materials	37.0	37.1	36.5	38.1	36.5	35.2	35.2	35.1	35.1	39.0	38.0	35.4	33.2	31.6	30.5	29.7
Mechanical	24.6	24.3	23.8	25.6	24.9	25.4	25.6	24.2	23.0	23.2	24.8	24.3	22.1	20.3	18.4	16.6
Other	27.2	25.7	24.9	28.8	30.3	32.1	31.4	30.8	27.6	27.9	29.2	28.7	26.8	25.9	23.1	22.5
Science	18.9	18.7	19.3	19.6	19.8	19.4	18.9	18.0	16.7	17.0	17.7	17.6	16.6	15.4	13.9	13.5
Natural sciences	24.4	24.0	24.7	25.3	25.7	25.2	24.5	23.5	21.9	22.5	23.5	23.4	21.8	20.1	17.7	16.9
Agricultural sciences	20.7	21.0	22.3	25.0	25.1	24.1	24.1	23.4	20.0	20.1	21.8	21.9	20.1	19.4	18.2	18.2
Biological sciences[c]	35.6	34.8	36.1	37.1	38.9	38.4	37.7	35.3	33.7	34.2	34.7	33.7	31.4	29.4	26.9	26.0
Earth, atmospheric, and ocean sciences	28.3	27.8	27.4	28.8	28.6	29.1	29.0	29.2	27.9	26.8	26.9	27.3	26.3	25.7	23.9	24.2
Atmospheric sciences	62.0	55.2	53.3	59.1	54.6	52.8	52.8	53.2	47.3	46.5	43.3	44.6	44.0	45.7	46.4	50.8

Field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Earth sciences	24.5	25.0	25.7	25.8	27.1	27.0	27.5	25.8	23.1	22.8	24.1	23.9	21.8	21.5	19.7	20.0
Oceanography	39.1	41.1	34.7	36.1	36.7	35.6	37.5	42.7	41.7	39.1	32.3	35.4	39.0	33.8	28.9	28.4
Other geosciences	14.6	13.1	15.8	17.1	15.9	19.0	17.2	14.3	17.2	16.1	21.8	20.8	18.3	19.0	19.1	18.5
Mathematics and computer sciences	13.2	13.2	14.2	15.5	15.5	16.3	15.3	14.8	13.9	14.6	15.2	15.0	14.3	12.4	9.8	8.9
Computer sciences	13.8	14.1	15.2	17.3	17.6	19.0	17.5	16.9	15.8	16.3	17.7	17.4	16.7	14.0	10.7	9.7
Mathematics and statistics	11.7	11.1	11.8	11.5	11.5	11.5	11.3	10.7	10.1	11.2	10.7	10.6	9.9	9.1	7.3	6.6
Medical and other health sciences	16.8	17.1	17.2	16.2	15.6	14.2	13.9	12.2	10.5	10.1	11.3	10.6	8.9	8.2	7.1	6.7
Medical sciences	22.3	24.4	24.2	23.0	23.6	21.9	21.3	19.2	15.3	14.9	15.8	14.5	12.5	10.8	9.5	8.6
Other health sciences[d]	14.1	13.3	13.4	12.3	11.2	10.1	10.0	8.6	7.9	6.9	7.6	6.5	5.1	5.3	4.5	4.6
Physical sciences	34.8	34.2	34.8	34.9	35.3	34.6	34.2	34.1	32.2	32.5	32.2	31.7	29.9	28.0	26.8	26.8
Astronomy	46.4	42.2	40.5	43.3	43.6	45.1	45.4	45.4	41.4	43.3	45.7	46.6	43.9	40.9	39.6	36.1
Chemistry	32.8	32.2	33.2	33.6	33.3	32.1	31.3	31.1	29.3	29.8	28.7	28.2	26.7	25.3	23.6	24.0
Physics	37.4	37.2	37.4	36.7	38.3	38.1	38.2	37.7	36.2	35.9	36.6	36.0	33.7	31.2	30.6	30.4
Other physical sciences	16.1	12.8	10.9	8.8	5.6	7.0	10.6	14.9	11.5	16.6	21.6	23.5	20.0	20.8	19.5	19.8
Social and behavioral sciences	7.6	7.4	7.7	7.5	7.2	7.0	6.9	6.3	6.1	6.2	6.2	6.1	5.8	5.3	4.9	5.1
Psychology[d]	9.4	9.3	10.3	10.0	9.6	9.5	9.1	8.5	8.0	8.5	8.6	8.0	7.7	6.9	6.6	7.2
Social sciences	6.4	6.2	6.2	6.0	5.8	5.5	5.5	5.0	4.9	4.9	5.0	5.1	4.8	4.5	4.0	4.0
Anthropology	6.7	6.6	6.9	7.1	7.7	6.3	6.6	6.4	6.1	6.6	6.6	6.2	5.7	5.1	4.6	4.8
Economics	8.5	8.0	7.5	7.3	7.4	6.9	6.7	6.6	6.3	5.8	5.9	5.9	5.4	4.9	4.2	3.8

Field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
History of science	5.6	5.8	4.5	4.4	1.7	3.8	3.5	3.5	3.1	2.5	3.6	2.4	1.7	2.8	2.4	1.5
Linguistics	5.9	6.0	5.2	6.2	6.3	5.6	6.3	7.6	6.4	7.1	6.9	6.2	5.1	3.9	3.7	4.4
Political science and public administration	3.9	4.1	3.8	3.6	3.7	3.5	3.5	2.5	2.7	2.8	2.9	3.7	3.5	3.4	2.9	3.1
Sociology	7.6	6.5	7.1	7.1	6.8	6.4	7.0	6.9	6.3	7.0	7.2	6.4	5.6	5.3	5.4	5.3
Other social sciences	7.4	7.2	7.8	7.3	6.6	6.9	6.5	6.0	5.7	5.7	5.8	6.1	6.0	5.8	5.2	4.8
Multidisciplinary and interdisciplinary studies	ne	ne	ne	ne	ne	ne	ne	15.6	11.8	9.8	12.5	16.2	18.9	18.8	14.7	13.1

ne = not eligible; data were not collected for this field before 2007.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. Because of methodological changes, counts should be used with caution for trend analysis. For more details, see appendix A in https://www.nsf.gov/statistics/nsf10307/.

[b] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed U.S. academic institutions with master's- or doctorate-granting programs in science, engineering, or health. For more details on the impact of the frame update, see https://www.nsf.gov/statistics/2016/nsf16314/.

[c] Starting in 2007, includes neuroscience, which may have been reported under other fields in prior years.

[d] Beginning with 2008, more rigorous follow-up was done in recent years with institutions regarding the exclusion of practitioner-oriented graduate degree programs in psychology and in other health sciences (a subfield of health). This change may affect interpretation of trends in these fields.

Note(s)

S&E includes health fields (medical sciences and other health sciences) and excludes newly eligible fields (architecture, communication, and family and consumer sciences and human sciences) added starting in 2007. Therefore, the S&E numbers in this table differ from the data used in National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering (annual series), and elsewhere. The survey changes in 2007 and 2014 may affect interpretation of trends.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Graduate Students and Postdoctorates in Science and Engineering.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-11

Proportion of full-time S&E graduate students primarily supported by federal government, by field and mechanism of primary support: 2015

(Percent)

Field	All mechanisms	Research assistantship	Fellowship	Traineeship	Teaching assistantship	Other
S&E	14.6	44.7	21.9	54.6	1.0	1.8
Engineering	17.6	46.7	25.0	49.7	0.9	1.7
Aerospace	28.4	54.7	32.4	18.1	1.0	8.3
Chemical	24.1	43.4	26.4	73.7	1.8	0.6
Civil	13.4	34.2	18.9	41.5	0.8	2.6
Electrical	14.9	54.8	19.8	18.9	0.6	0.9
Industrial	8.5	37.3	10.8	66.3	1.6	2.9
Materials	29.7	49.8	29.1	38.0	1.1	0.8
Mechanical	16.6	46.7	27.1	35.0	0.4	0.9
Other	22.5	44.7	29.8	63.7	1.5	2.5
Science	13.5	43.7	21.1	55.1	1.0	1.9
Natural sciences	16.9	48.0	27.3	61.5	1.2	1.9
Agricultural sciences	18.2	33.2	18.8	34.9	2.4	2.3
Biological sciences[a]	26.0	46.3	32.7	67.3	1.2	3.0
Earth, atmospheric, and ocean sciences	24.2	53.8	28.6	50.0	2.6	2.3

Field	All mechanisms	Research assistantship	Fellowship	Traineeship	Teaching assistantship	Other
Atmospheric sciences	50.8	72.9	59.7	46.4	11.4	1.9
Earth sciences	20.0	50.3	24.1	53.6	2.0	2.1
Oceanography	28.4	48.9	39.0	16.7	2.6	3.5
Other geosciences	18.5	50.4	26.1	56.7	0.7	2.1
Mathematics and computer sciences	8.9	54.6	20.7	44.0	0.6	1.2
Computer sciences	9.7	55.4	25.1	34.9	1.0	1.3
Mathematics and statistics	6.6	51.0	16.1	56.8	0.4	1.0
Medical and other health sciences	6.7	25.8	17.7	46.5	1.0	1.7
Medical sciences	8.6	29.7	20.5	52.3	0.9	1.6
Other health sciences	4.6	18.7	12.7	37.0	1.2	1.8
Physical sciences	26.8	59.8	27.0	69.3	1.4	5.6
Astronomy	36.1	57.4	35.2	30.0	1.0	3.9
Chemistry	24.0	58.0	28.4	78.6	1.1	2.7
Physics	30.4	62.8	23.1	62.4	2.0	9.7
Other physical sciences	19.8	42.0	17.2	52.2	1.3	5.6
Social and behavioral sciences	5.1	21.3	9.8	24.4	0.5	1.8
Psychology	7.2	27.7	21.1	27.6	0.6	2.3
Social sciences	4.0	16.9	7.2	21.6	0.4	1.5

Field	All mechanisms	Research assistantship	Fellowship	Traineeship	Teaching assistantship	Other
Anthropology	4.8	19.5	11.4	13.7	0.2	1.4
Economics	3.8	16.3	4.4	23.5	0.4	0.7
History of science	1.5	4.8	1.9	0.0	0.0	0.0
Linguistics	4.4	22.6	10.8	2.1	0.9	1.1
Political science and public administration	3.1	10.2	5.4	28.4	0.3	1.9
Sociology	5.3	20.8	8.7	26.8	0.3	1.1
Other social sciences	4.8	23.9	10.9	13.7	0.8	1.4
Multidisciplinary and interdisciplinary studies	13.1	41.4	28.9	57.5	0.3	1.6

[a] Includes neuroscience.

Note(s)

S&E includes health fields (medical sciences and other health sciences) and excludes newly eligible fields (architecture, communication, and family and consumer sciences and human sciences) added starting in 2007. Therefore, the S&E numbers in this table differ from the data used in National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering (annual series), and elsewhere.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics special tabulations (2016), 2015 Survey of Graduate Students and Postdoctorates in Science and Engineering.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-12

Full-time S&E graduate students primarily supported by federal government, by agency: 2000–15

(Number and percent)

Year	All federal		National Institutes of Health (NIH)		Department of Health and Human Services (excluding NIH)		National Science Foundation		Department of Defense		Department of Agriculture		National Aeronautics and Space Administration		Department of Energy		Other federal agencies	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2000	67,588	100.0	19,472	28.8	4,018	5.9	14,599	21.6	8,141	12.0	2,630	3.9	2,780	4.1	2,995	4.4	12,953	19.2
2001	68,843	100.0	19,904	28.9	4,433	6.4	15,429	22.4	7,960	11.6	2,735	4.0	2,819	4.1	3,116	4.5	12,447	18.1
2002	75,538	100.0	22,129	29.3	4,830	6.4	17,135	22.7	7,977	10.6	3,100	4.1	3,082	4.1	3,548	4.7	13,737	18.2
2003	81,761	100.0	24,309	29.7	4,922	6.0	19,308	23.6	9,204	11.3	3,468	4.2	3,230	4.0	4,024	4.9	13,296	16.3
2004	83,816	100.0	26,689	31.8	4,211	5.0	19,975	23.8	9,007	10.7	3,563	4.3	2,916	3.5	4,135	4.9	13,320	15.9
2005	83,723	100.0	26,868	32.1	3,912	4.7	20,387	24.4	8,993	10.7	3,351	4.0	2,691	3.2	4,392	5.2	13,129	15.7
2006	83,962	100.0	27,587	32.9	3,662	4.4	20,339	24.2	8,867	10.6	3,000	3.6	2,364	2.8	4,480	5.3	13,663	16.3
2007[a]	81,602	100.0	26,965	33.0	3,066	3.8	19,763	24.2	8,865	10.9	2,798	3.4	2,317	2.8	4,282	5.2	13,546	16.6
2008	78,215	100.0	25,949	33.2	2,481	3.2	19,845	25.4	8,200	10.5	2,736	3.5	2,344	3.0	4,334	5.5	12,326	15.8
2009	81,205	100.0	26,443	32.6	2,183	2.7	21,617	26.6	8,653	10.7	2,689	3.3	2,426	3.0	4,603	5.7	12,591	15.5
2010	85,877	100.0	27,547	32.1	2,228	2.6	23,149	27.0	9,202	10.7	3,037	3.5	2,470	2.9	5,493	6.4	12,751	14.8
2011	84,816	100.0	25,612	30.2	2,173	2.6	24,138	28.5	9,076	10.7	2,835	3.3	2,391	2.8	5,725	6.7	12,866	15.2
2012	80,638	100.0	24,208	30.0	1,899	2.4	24,171	30.0	8,719	10.8	2,639	3.3	2,172	2.7	5,330	6.6	11,500	14.3
2013	76,507	100.0	22,316	29.2	1,628	2.1	23,220	30.4	8,277	10.8	2,550	3.3	2,003	2.6	4,798	6.3	11,715	15.3
2014[b]	72,445	100.0	21,141	29.2	1,366	1.9	22,837	31.5	7,429	10.3	2,384	3.3	2,008	2.8	4,397	6.1	10,883	15.0

Year	All federal		National Institutes of Health (NIH)		Department of Health and Human Services (excluding NIH)		National Science Foundation		Department of Defense		Department of Agriculture		National Aeronautics and Space Administration		Department of Energy		Other federal agencies	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2015	72,075	100.0	20,589	28.6	1,697	2.4	22,861	31.7	8,103	11.2	2,626	3.6	2,035	2.8	4,308	6.0	9,856	13.7

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. Because of methodological changes, counts should be used with caution for trend analysis. For more details, see appendix A in https://www.nsf.gov/statistics/nsf10307/.

[b] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed U.S. academic institutions with master's- or doctorate-granting programs in science, engineering, or health. For more details on the impact of the frame update, see https://www.nsf.gov/statistics/2016/nsf16314/.

Note(s)

S&E includes health fields (medical sciences and other health sciences) and excludes newly eligible fields (architecture, communication, and family and consumer sciences and human sciences) added starting in 2007. Therefore, the S&E numbers in this table differ from the data used in National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering (annual series), and elsewhere. Percentages may not add to 100% because of rounding. The survey changes in 2007 and 2014 may affect interpretation of trends.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Graduate Students and Postdoctorates in Science and Engineering.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-13

Full-time S&E graduate students primarily supported by federal government, by field and agency: 2015

(Number and percent)

Field	All federal		National Institutes of Health		Department of Health and Human Services (excluding NIH)		National Science Foundation		Department of Defense		Department of Agriculture		National Aeronautics and Space Administration		Department of Energy		Other federal agencies	
	Total	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
S&E	72,075	100.0	20,589	29	1,697	2	22,861	32	8,103	11	2,626	4	2,035	3	4,308	6	9,856	14
Engineering	22,276	100.0	2,529	11	186	1	8,599	39	4,414	20	273	1	852	4	2,094	9	3,329	15
Aerospace	1,146	100.0	3	0	0	0	170	15	538	47	0	0	314	27	51	5	70	6
Chemical	2,127	100.0	244	12	24	1	1,019	48	195	9	48	2	31	2	372	18	194	9
Civil	2,066	100.0	30	2	7	0	753	36	166	8	31	2	55	3	106	5	918	44
Electrical	6,045	100.0	327	5	20	0	2,957	49	1,625	27	13	0	161	3	279	5	663	11
Industrial	873	100.0	75	9	17	2	272	31	266	31	3	0	20	2	47	5	173	20
Materials	2,026	100.0	69	3	9	0	875	43	457	23	14	1	28	1	348	17	226	11
Mechanical	3,376	100.0	176	5	31	1	1,393	41	754	22	19	1	179	5	343	10	481	14
Other	4,617	100.0	1,605	35	78	2	1,160	25	413	9	145	3	64	1	548	12	604	13
Science	49,799	100.0	18,060	36	1,511	3	14,262	29	3,689	7	2,353	5	1,183	2	2,214	4	6,527	13
Natural sciences	43,846	100.0	16,641	38	1,264	3	12,746	29	2,995	7	2,113	5	1,121	3	2,178	5	4,788	11
Agricultural sciences	2,377	100.0	43	2	8	0	350	15	53	2	1,132	48	38	2	47	2	706	30

Field	All federal		National Institutes of Health		Department of Health and Human Services (excluding NIH)		National Science Foundation		Department of Defense		Department of Agriculture		National Aeronautics and Space Administration		Department of Energy		Other federal agencies	
	Total	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Biological sciences[a]	18,526	100.0	12,930	70	633	3	2,602	14	342	2	767	4	66	0	124	1	1,062	6
Earth, atmospheric, and ocean sciences	2,974	100.0	17	1	1	0	1,517	51	146	5	51	2	476	16	132	4	634	21
Atmospheric sciences	610	100.0	0	0	0	0	232	38	33	5	5	1	147	24	48	8	145	24
Earth sciences	1,412	100.0	5	0	1	0	822	58	26	2	18	1	251	18	69	5	220	16
Oceanography	591	100.0	4	1	0	0	296	50	52	9	11	2	43	7	7	1	178	30
Other geosciences	361	100.0	8	2	0	0	167	46	35	10	17	5	35	10	8	2	91	25
Mathematics and computer sciences	7,058	100.0	433	6	42	1	4,077	58	1,387	20	42	1	50	1	168	2	859	12
Computer sciences	5,664	100.0	269	5	32	1	3,235	57	1,228	22	32	1	37	1	119	2	712	13
Mathematics and statistics	1,394	100.0	164	12	10	1	842	60	159	11	10	1	13	1	49	4	147	11
Medical and other health sciences	3,147	100.0	1,614	51	472	15	116	4	206	7	82	3	5	0	6	0	646	21
Medical sciences	2,147	100.0	1,224	57	346	16	94	4	177	8	75	4	5	0	3	0	223	10
Other health sciences	1,000	100.0	390	39	126	13	22	2	29	3	7	1	0	0	3	0	423	42
Physical sciences	9,764	100.0	1,604	16	108	1	4,084	42	861	9	39	0	486	5	1,701	17	881	9
Astronomy	453	100.0	1	0	0	0	209	46	5	1	0	0	147	33	58	13	33	7
Chemistry	4,939	100.0	1,410	29	89	2	2,049	42	331	7	21	0	55	1	555	11	429	9
Physics	4,281	100.0	167	4	11	0	1,807	42	506	12	18	0	277	7	1,084	25	411	10

Field	All federal		National Institutes of Health		Department of Health and Human Services (excluding NIH)		National Science Foundation		Department of Defense		Department of Agriculture		National Aeronautics and Space Administration		Department of Energy		Other federal agencies	
	Total	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Other physical sciences	91	100.0	26	28.6	8	9	19	21	19	21	0	0	7	8	4	4	8	9
Social and behavioral sciences	5,247	100.0	1,141	22	238	5	1,348	26	646	12	215	4	42	1	17	0	1,600	31
Psychology	2,540	100.0	903	36	142	6	544	21	421	17	2	0	7	0	3	0	518	20
Social sciences	2,707	100.0	238	9	96	4	804	30	225	8	213	8	35	1	14	1	1,082	40
Anthropology	283	100.0	8	3	3	1	164	58	5	2	9	3	0	0.0	1	0	93	33
Economics	532	100.0	37	7	6	1	120	23	11	2	169	32	0	0.0	7	1	182	34
History of science	5	100.0	1	20	0	0	3	60	0	0	0	0	0	0.0	0	0	1	20
Linguistics	112	100.0	8	7	0	0	64	57	8	7	0	0	0	0.0	0	0	32	29
Political science and public administration	829	100.0	66	8	71	9	142	17	153	19	6	1	1	0.1	3	0	387	47
Sociology	344	100.0	92	27	8	2	157	46	13	4	15	4	0	0.0	0	0	59	17
Other social sciences	602	100.0	26	4	8	1	154	26	6	*	14	2	34	5.6	3	1	328	55
Multidisciplinary and interdisciplinary studies	706	100.0	278	39	9	1	168	24	48	7	25	4	20	3	19	3	139	20

* = less than .05.

[a] Includes neuroscience.

Note(s)

S&E includes health fields (medical sciences and other health sciences) and excludes newly eligible fields (architecture, communication, and family and consumer sciences and human sciences) added starting in 2007. Therefore, the S&E numbers in this table differ from the data used in National Science Foundation (NSF), National Center for Science and Engineering Statistics (NCSES), Survey of Graduate Students and Postdoctorates in Science and Engineering (annual series), and elsewhere. Percentages may not add to 100% because of rounding.

Source(s)

NSF, NCSES, special tabulations (2016), 2015 Survey of Graduate Students and Postdoctorates in Science and Engineering.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-14

Doctorate recipients' source of primary support, by broad field of study, sex, citizenship, ethnicity, and race: 2013–15

(Percent)

Source of primary support and broad field of study	Total[a]	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
All fields (number)	161,716	47,671	103,093	50,458	52,635	6,778	352	8,846	6,625	74,990	2,643	800	2,059	10,952
Fellowship or traineeship	19.9	15.4	24.0	23.2	24.6	30.7	29.3	27.1	26.1	23.0	30.9	24.5	7.5	2.2
Grant	5.1	3.6	6.3	6.6	6.0	6.2	4.0	8.9	4.0	6.3	6.8	5.6	2.0	0.3
Teaching assistantship	18.3	21.1	18.8	19.3	18.3	17.4	13.6	16.8	10.6	20.3	17.2	16.8	6.3	1.8
Research assistantship	27.4	46.2	21.3	25.0	17.7	15.2	8.8	28.4	11.9	22.3	21.2	17.5	7.9	2.7
Personal	13.6	2.8	19.8	15.6	23.9	21.0	30.4	11.0	36.6	19.7	18.5	18.0	7.2	1.7
Other	4.1	4.5	4.3	4.7	3.9	3.4	4.8	3.9	5.0	4.5	2.7	4.0	1.5	0.5
Unknown	11.6	6.4	5.5	5.6	5.5	6.2	9.1	4.0	5.8	3.9	2.6	13.6	67.6	90.8
S&E (number)	121,808	41,373	72,565	37,828	34,737	4,636	217	7,171	3,963	52,625	1,943	556	1,454	7,870
Fellowship or traineeship	19.9	13.2	25.7	23.9	27.6	34.4	37.8	26.4	31.3	24.6	32.4	24.1	7.8	2.0
Grant	6.4	4.0	8.4	8.5	8.4	8.4	s	10.6	5.9	8.5	9.0	s	2.7	0.4
Teaching assistantship	16.5	19.8	16.2	16.5	15.9	14.1	12.4	15.1	11.0	17.3	14.3	16.5	5.7	1.6
Research assistantship	33.4	50.6	26.8	31.1	22.1	19.2	11.5	32.1	14.8	28.3	25.8	22.5	9.7	3.4
Personal	9.0	1.9	13.9	10.4	17.6	14.7	19.4	8.4	28.3	13.7	13.6	12.1	4.9	1.2

Source of primary support and broad field of study	Total[a]	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	3.6	4.2	3.7	4.3	3.1	3.1	s	3.7	3.7	3.9	2.2	s	1.0	0.4
Unknown	11.1	6.3	5.2	5.3	5.2	6.2	9.7	3.7	5.1	3.6	2.6	12.9	68.3	90.9
Agricultural sciences (number)	3,796	1,421	2,142	1,076	1,066	144	10	107	97	1,699	36	14	35	233
Fellowship or traineeship	16.8	15.3	19.4	17.1	21.8	23.6	60.0	16.8	21.6	18.7	27.8	21.4	17.1	1.3
Grant	5.1	2.9	7.0	6.6	7.5	9.7	0.0	5.6	s	7.2	s	0.0	0.0	0.4
Teaching assistantship	9.6	8.7	10.9	7.7	14.2	9.7	0.0	13.1	7.2	11.4	s	s	0.0	3.0
Research assistantship	43.3	58.3	37.7	41.3	34.1	27.8	s	48.6	s	38.8	41.7	28.6	8.6	3.9
Personal	8.2	0.9	13.8	13.9	13.6	13.2	s	10.3	21.6	13.7	s	14.3	8.6	2.1
Other	7.0	9.5	6.1	8.2	4.0	4.9	s	3.7	4.1	6.6	0.0	s	2.9	0.4
Unknown	9.9	4.4	5.0	5.2	4.8	11.1	0.0	1.9	5.2	3.6	0.0	7.1	62.9	88.8
Biological sciences (number)	25,658	6,570	17,554	8,103	9,451	1,264	36	2,063	714	12,600	525	125	227	1,534
Fellowship or traineeship	30.4	21.0	36.3	35.8	36.6	46.5	50.0	35.9	47.8	34.7	43.8	34.4	13.7	3.1
Grant	16.1	9.6	19.8	20.0	19.7	18.2	s	22.0	20.6	19.9	18.5	s	7.9	1.0
Teaching assistantship	11.2	14.3	10.9	10.9	10.9	7.8	s	8.7	7.7	12.0	9.9	s	5.3	0.7
Research assistantship	26.9	44.4	22.6	22.9	22.3	14.8	13.9	24.0	13.6	23.9	22.1	19.2	12.3	2.0
Personal	3.4	0.7	4.6	4.4	4.8	6.6	s	3.8	4.1	4.7	2.7	s	2.6	0.5

Source of primary support and broad field of study	Total[a]	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	2.4	4.5	1.8	1.6	1.9	1.3	0.0	2.4	1.1	1.8	1.3	2.4	0.0	0.4
Unknown	9.6	5.4	4.0	4.3	3.7	4.8	13.9	3.2	5.2	3.0	1.7	9.6	58.1	92.4
Computer sciences (number)	5,837	3,116	2,338	1,859	479	94	s	368	97	1,629	55	s	65	383
Fellowship or traineeship	12.4	9.1	18.6	16.7	26.3	33.0	0.0	13.3	32.0	18.3	27.3	29.6	6.2	1.0
Grant	3.1	2.6	4.1	4.2	3.5	s	s	2.7	s	4.7	s	0.0	s	1.0
Teaching assistantship	11.6	15.1	8.7	8.2	10.6	s	s	10.9	s	8.9	s	11.1	s	1.0
Research assistantship	50.7	63.0	41.4	44.1	31.3	24.5	0.0	49.5	20.6	43.1	s	s	21.5	7.0
Personal	6.5	1.3	14.3	13.3	18.0	20.2	0.0	13.0	33.0	13.4	14.5	11.1	9.2	1.3
Other	4.7	2.9	7.7	8.1	6.1	7.4	0.0	6.8	4.1	8.3	9.1	7.4	0.0	1.3
Unknown	11.1	6.1	5.2	5.4	4.2	5.3	33.3	3.8	4.1	3.3	5.5	7.4	58.5	87.2
Earth, atmospheric, and ocean sciences (number)	2,838	883	1,825	990	835	97	5	60	34	1,533	47	12	37	130
Fellowship or traineeship	19.7	12.1	24.6	20.5	29.5	36.1	s	18.3	44.1	23.9	27.7	s	10.8	2.3
Grant	8.4	7.5	9.4	9.1	9.7	s	0.0	s	s	10.2	s	0.0	s	0.0
Teaching assistantship	14.2	14.0	15.1	15.1	15.1	s	0.0	13.3	s	15.3	s	0.0	s	3.8
Research assistantship	42.1	54.4	38.7	40.8	36.2	25.8	s	50.0	29.4	40.1	s	50.0	16.2	6.2
Personal	4.1	1.0	5.9	6.9	4.7	7.2	s	s	s	5.6	s	0.0	5.4	0.8

Source of primary support and broad field of study	Total[a]	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	3.4	5.1	2.7	3.7	1.6	s	0.0	3.3	0.0	2.6	6.4	s	2.7	0.8
Unknown	8.1	5.9	3.7	3.9	3.4	3.1	0.0	1.7	2.9	2.3	8.5	16.7	54.1	86.2
Engineering (number)	28,531	14,844	12,056	9,007	3,049	728	19	1,799	504	8,291	298	102	315	1,631
Fellowship or traineeship	14.9	7.5	25.8	22.4	35.8	35.9	s	21.1	40.5	25.6	33.6	s	5.7	1.7
Grant	5.2	3.6	7.8	7.6	8.4	7.0	s	9.1	4.2	8.0	8.1	s	2.2	0.6
Teaching assistantship	7.6	10.1	5.5	5.7	4.7	5.1	s	6.2	6.2	5.5	4.4	s	1.3	1.0
Research assistantship	52.8	66.3	42.5	44.1	38.0	34.5	47.4	49.6	27.8	43.8	44.6	35.3	10.5	5.3
Personal	3.4	1.6	6.1	6.6	4.6	4.5	s	5.3	9.1	6.5	2.3	s	1.0	0.4
Other	5.1	4.3	6.7	7.7	3.6	7.3	0.0	5.2	6.9	7.2	4.7	9.8	1.3	0.6
Unknown	10.9	6.5	5.6	5.9	4.8	5.8	10.5	3.6	5.4	3.3	2.3	11.8	78.1	90.5
Mathematics (number)	5,511	2,492	2,692	1,947	745	112	s	291	88	2,047	54	s	75	327
Fellowship or traineeship	14.3	11.0	18.8	19.0	18.4	24.1	0.0	19.6	29.5	18.1	40.7	8.7	2.7	1.5
Grant	1.7	1.0	2.4	2.3	2.8	s	0.0	2.4	s	2.6	s	0.0	0.0	0.0
Teaching assistantship	53.8	60.1	53.8	54.5	51.9	47.3	s	49.8	43.2	56.2	s	52.2	26.7	6.4
Research assistantship	14.2	17.8	12.2	12.2	12.2	11.6	0.0	12.4	6.8	12.8	s	s	8.0	2.8
Personal	3.0	0.7	5.5	5.1	6.4	7.1	0.0	5.5	s	5.3	s	8.7	1.3	0.3

Source of primary support and broad field of study	Total[a]	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	2.3	2.6	2.2	2.1	2.6	s	0.0	4.5	s	1.9	0.0	0.0	1.3	0.3
Unknown	10.8	6.7	5.1	4.9	5.6	4.5	0.0	5.8	3.4	3.2	0.0	13.0	60.0	88.7
Medical and other health sciences (number)	7,761	1,500	5,666	1,593	4,073	310	27	504	659	3,899	133	38	96	595
Fellowship or traineeship	21.0	18.9	23.5	20.5	24.7	31.3	37.0	29.2	23.1	22.3	29.3	26.3	8.3	1.5
Grant	5.3	3.9	6.3	7.4	5.9	7.4	0.0	8.3	4.6	6.2	9.8	5.3	5.2	0.0
Teaching assistantship	9.4	17.3	8.2	11.9	6.8	7.4	0.0	8.3	4.9	9.2	4.5	7.9	3.1	0.5
Research assistantship	18.4	37.5	15.1	19.8	13.2	14.8	s	20.2	s	15.4	19.5	21.1	12.5	2.0
Personal	24.9	6.5	32.2	25.4	34.9	31.3	29.6	19.6	49.6	31.5	30.1	28.9	15.6	1.8
Other	9.0	9.5	9.7	8.5	10.1	5.8	s	9.7	s	11.1	4.5	5.3	1.0	0.8
Unknown	12.0	6.3	4.9	6.5	4.3	1.9	11.1	4.6	3.8	4.3	2.3	5.3	54.2	93.3
Physical sciences (number)	14,275	5,409	7,949	5,462	2,487	435	18	682	251	6,142	212	62	147	917
Fellowship or traineeship	12.8	7.2	17.9	15.7	22.8	29.7	55.6	15.1	30.7	16.9	21.7	17.7	8.2	1.9
Grant	4.9	3.1	6.8	7.0	6.3	7.1	s	s	4.4	6.7	11.3	3.2	2.7	0.2
Teaching assistantship	21.9	27.9	20.1	19.5	21.4	21.4	s	22.9	27.1	19.9	18.4	s	3.4	2.4
Research assistantship	46.6	54.1	46.4	48.6	41.6	32.2	s	47.5	29.5	49.0	43.4	s	15.6	5.0
Personal	1.8	0.3	3.0	3.1	2.7	2.5	s	s	2.8	3.3	2.4	1.6	0.7	0.1

Source of primary support and broad field of study	Total[a]	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	1.2	1.3	1.3	1.4	0.9	1.6	5.6	1.8	2.0	1.2	0.5	0.0	0.7	0.0
Unknown	10.7	6.2	4.5	4.6	4.4	5.5	0.0	3.7	3.6	3.1	2.4	14.5	68.7	90.4
Psychology (number)	11,098	791	9,216	2,567	6,649	712	38	508	626	6,772	250	53	257	1,091
Fellowship or traineeship	15.4	20.2	16.7	17.2	16.5	21.5	34.2	23.6	21.2	15.6	18.4	17.0	3.1	0.8
Grant	2.3	1.6	2.5	3.0	2.4	3.7	s	2.6	1.1	2.6	2.4	s	0.0	0.3
Teaching assistantship	18.4	25.8	19.9	23.2	18.6	12.6	s	25.8	12.5	21.6	18.4	s	5.1	1.1
Research assistantship	16.6	23.0	17.9	16.9	18.2	12.4	s	18.3	11.7	19.7	19.6	s	1.2	1.1
Personal	28.2	13.3	32.4	28.3	34.0	36.8	28.9	23.8	44.6	32.5	35.2	17.0	7.0	3.2
Other	1.4	5.2	1.2	1.9	0.9	1.4	0.0	0.0	1.8	1.3	0.4	3.8	0.0	0.2
Unknown	17.7	10.9	9.4	9.5	9.3	11.7	15.8	5.9	7.2	6.7	5.6	37.7	83.7	93.3
Social sciences (number)	16,503	4,347	11,127	5,224	5,903	740	59	789	893	8,013	333	100	200	1,029
Fellowship or traineeship	26.4	29.1	27.4	27.3	27.6	32.2	33.9	34.1	26.8	26.6	32.7	22.0	10.0	3.3
Grant	0.8	0.7	0.9	0.7	1.0	0.8	s	1.5	0.6	0.8	s	2.0	1.0	0.1
Teaching assistantship	28.8	36.4	28.2	29.8	26.9	29.6	22.0	31.9	13.5	30.0	23.7	31.0	11.0	2.7
Research assistantship	13.2	17.9	12.4	12.4	12.4	10.1	s	11.9	8.4	13.4	s	7.0	6.5	2.5
Personal	17.1	4.9	23.2	21.4	24.7	19.1	27.1	15.5	41.1	22.4	28.5	25.0	8.0	2.2

Source of primary support and broad field of study	Total[a]	Temporary visa holder	U.S. citizens and permanent residents											Unknown citizenship
			Total	Male	Female	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported	
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Other	3.6	4.7	3.4	3.8	3.0	2.4	3.4	1.9	4.6	3.6	1.8	4.0	2.5	0.4
Unknown	10.2	6.3	4.5	4.6	4.4	5.8	6.8	3.2	5.0	3.1	1.5	9.0	61.0	88.7
Non-S&E (number)	39,908	6,298	30,528	12,630	17,898	2,142	135	1,675	2,662	22,365	700	244	605	3,082
Fellowship or traineeship	20.0	29.3	19.8	21.3	18.8	22.6	15.6	30.3	18.3	19.1	26.9	25.4	6.9	2.6
Grant	1.1	1.2	1.2	1.0	1.3	1.3	s	1.4	1.3	1.2	0.7	s	0.5	0.1
Teaching assistantship	23.8	29.2	24.9	27.5	23.1	24.6	15.6	24.0	10.0	27.4	25.3	17.2	7.8	2.4
Research assistantship	9.0	17.5	8.1	6.7	9.1	6.6	4.4	12.8	7.6	8.1	8.3	6.1	3.6	0.8
Personal	27.6	8.8	34.0	31.1	36.1	34.6	48.1	21.9	48.9	33.7	32.0	31.6	12.7	2.9
Other	5.5	6.7	5.8	6.2	5.5	3.9	s	4.7	7.1	6.1	4.0	s	2.6	0.6
Unknown	12.9	7.3	6.2	6.3	6.1	6.3	8.1	5.0	6.8	4.6	2.9	15.2	65.8	90.7

s = suppressed for reasons of confidentiality and/or reliability.

[a] Total includes doctorate recipients for whom sex was not reported.

Note(s)

Includes only doctorate recipients who reported a primary source of support. Reporting categories for ethnicity and race were expanded in 2013; comparisons with data before 2013 should be made with caution. Personal support mechanisms include personal savings, other personal earnings, other family earnings or savings, and loans. Research assistantships include research assistantships and other assistantships. Traineeships include internships and residencies. Other support mechanisms include employer reimbursement or assistance, foreign support, and other sources. Percentages may not add to total because of rounding.

Source(s)

CHAPTER 2 | Higher Education in Science and Engineering

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Earned Doctorates (SED).

Science and Engineering Indicators 2018

APPENDIX TABLE 2-15

Amount of undergraduate and graduate debt of S&E doctorate recipients, by field: 2015

(Percent)

Debt and field	Doctorates (number)	Debt										
		None	≤ $10,000	$10,001–$20,000	$20,001–$30,000	$30,001–$40,000	$40,001–$50,000	$50,001–$60,000	$60,001–$70,000	$70,001–$80,000	$80,001–$90,000	≥ $90,001
Cumulative debt												
All fields	49,355	53.1	9.1	7.1	5.9	3.7	3.2	2.4	2.1	1.8	2.5	9.1
S&E	37,442	56.8	9.2	6.9	5.7	3.5	2.9	2.1	1.8	1.6	2.1	7.3
Engineering	8,955	66.9	9.9	6.1	4.7	2.8	2.1	1.4	1.2	0.9	1.1	3.0
Sciences	28,487	53.6	9.0	7.2	6.1	3.7	3.2	2.3	2.0	1.8	2.5	8.7
Agricultural sciences	1,218	56.9	11.0	8.0	6.3	3.6	2.7	2.0	1.6	2.1	1.1	4.8
Biological sciences	7,825	57.8	9.6	8.2	6.9	3.5	3.0	2.0	1.7	1.4	1.6	4.3
Computer sciences	1,786	73.2	7.6	4.5	3.1	2.2	1.5	0.9	0.6	0.9	1.3	4.3
Earth, atmospheric, and ocean sciences	893	57.1	12.3	7.8	6.5	4.4	2.8	1.1	2.0	0.8	1.2	3.9
Mathematics	1,648	70.9	8.6	5.9	4.4	1.6	2.1	1.2	1.0	0.9	1.5	1.9
Medical and other health sciences	2,392	41.7	8.1	6.4	5.5	5.3	4.0	4.1	2.6	2.9	4.7	14.9
Physical sciences	4,413	62.4	10.1	7.2	6.1	3.2	2.7	1.6	1.5	0.8	1.1	3.3
Psychology	3,124	30.9	6.5	6.4	6.4	4.3	4.7	3.9	3.7	3.7	5.6	23.9

Debt and field	Doctorates (number)	Debt										
		None	≤ $10,000	$10,001–$20,000	$20,001–$30,000	$30,001–$40,000	$40,001–$50,000	$50,001–$60,000	$60,001–$70,000	$70,001–$80,000	$80,001–$90,000	≥ $90,001
Social sciences	5,188	45.3	8.8	7.7	6.3	4.4	3.7	2.8	2.6	2.2	3.2	13.1
Non-S&E	11,913	41.5	8.8	7.4	6.3	4.3	4.1	3.5	3.0	2.4	3.7	14.9
Undergraduate debt												
All fields	49,250	70.2	7.2	7.2	5.7	3.1	2.1	1.4	0.9	0.6	0.8	0.9
S&E	37,353	71.3	7.1	6.9	5.6	3.0	1.9	1.3	0.9	0.5	0.7	0.8
Engineering	8,932	78.6	6.2	5.0	3.9	2.2	1.2	0.9	0.6	0.3	0.5	0.4
Sciences	28,421	69.0	7.4	7.5	6.1	3.2	2.1	1.4	0.9	0.6	0.8	0.9
Agricultural sciences	1,217	72.4	7.3	7.6	4.5	2.7	2.1	1.0	0.7	0.8	s	s
Biological sciences	7,815	66.9	7.8	8.4	7.0	3.4	2.3	1.2	0.9	0.6	0.8	0.7
Computer sciences	1,782	84.5	4.5	3.1	2.6	1.5	1.0	0.7	0.4	0.4	0.6	0.8
Earth, atmospheric, and ocean sciences	892	68.7	9.5	7.3	5.8	3.3	1.8	1.0	s	0.7	s	0.7
Mathematics	1,645	78.8	6.7	6.1	3.5	1.8	1.3	0.7	s	0.4	0.3	s

Debt and field	Doctorates (number)	Debt										
		None	≤ $10,000	$10,001–$20,000	$20,001–$30,000	$30,001–$40,000	$40,001–$50,000	$50,001–$60,000	$60,001–$70,000	$70,001–$80,000	$80,001–$90,000	≥ $90,001
Medical and other health sciences	2,379	69.0	6.9	5.8	5.3	3.0	2.9	2.0	1.5	0.8	1.2	1.6
Physical sciences	4,409	69.9	7.5	7.3	6.6	3.0	1.9	1.0	1.0	0.6	0.5	0.7
Psychology	3,113	58.0	9.0	9.3	8.1	5.1	3.2	2.4	1.1	0.8	1.4	1.6
Social sciences	5,169	68.6	6.8	8.0	6.2	3.3	1.8	1.7	1.1	0.4	0.9	1.1
Non-S&E	11,897	67.1	7.7	8.0	5.9	3.5	2.5	1.7	0.9	0.7	1.0	1.2
Graduate debt												
All fields	48,809	63.3	8.6	5.2	4.0	2.8	2.5	2.2	1.7	1.6	2.6	5.4
S&E	37,044	68.3	8.3	4.7	3.5	2.4	2.1	1.8	1.4	1.3	2.0	4.2
Engineering	8,841	76.9	8.8	4.3	2.7	1.6	1.3	1.1	0.8	0.7	0.8	1.1
Sciences	28,203	65.6	8.2	4.9	3.7	2.6	2.3	2.0	1.6	1.5	2.4	5.1
Agricultural sciences	1,207	67.0	10.2	6.1	4.0	3.3	2.4	1.7	1.0	1.4	0.8	2.0
Biological sciences	7,745	75.7	8.1	4.3	2.9	1.5	1.6	1.2	0.7	0.8	1.1	1.9
Computer sciences	1,772	79.3	6.7	3.1	1.9	1.5	1.6	0.8	0.6	0.6	1.5	2.3

Debt and field	Doctorates (number)	Debt										
		None	≤ $10,000	$10,001–$20,000	$20,001–$30,000	$30,001–$40,000	$40,001–$50,000	$50,001–$60,000	$60,001–$70,000	$70,001–$80,000	$80,001–$90,000	≥ $90,001
Earth, atmospheric, and ocean sciences	886	75.3	9.0	3.8	2.9	2.0	1.5	0.8	1.4	0.6	1.4	1.4
Mathematics	1,636	82.0	6.3	3.4	1.9	1.1	1.2	1.0	0.6	0.6	1.2	0.8
Medical and other health sciences	2,357	48.0	8.1	6.1	5.3	4.7	3.9	4.2	2.7	3.4	3.9	9.7
Physical sciences	4,364	79.2	8.5	3.6	2.3	1.4	1.0	0.9	0.8	0.5	0.9	1.0
Psychology	3,092	37.6	7.3	5.5	6.0	4.6	4.4	4.3	3.7	3.6	6.2	16.8
Social sciences	5,144	52.0	9.2	7.0	5.3	3.9	3.2	3.0	2.5	2.2	3.7	8.0
Non-S&E	11,765	47.6	9.4	6.5	5.7	4.3	3.7	3.6	2.7	2.6	4.6	9.3

s = suppressed for reasons of confidentiality and/or reliability.

Note(s)

Of doctorate recipients, 5,756 did not report undergraduate debt, and 6,197 did not report graduate debt. Percentages may not add to total because of rounding.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Earned Doctorates (SED).

Science and Engineering Indicators 2018

APPENDIX TABLE 2-16

International undergraduate student enrollment in U.S. universities, by field and selected places of origin: 2016 and 2017

(Number)

Place of origin	All fields	S&E									Non-S&E
		Total	Agricultural sciences	Biological sciences	Computer sciences	Engineering	Mathematics	Physical sciences	Psychology	Social sciences	
2016											
All locations	450,850	176,570	2,970	16,570	29,140	64,110	14,650	8,420	9,350	31,360	274,280
China	141,060	57,600	1,300	3,580	8,420	14,560	10,510	3,420	2,620	13,190	83,460
Saudi Arabia	35,030	17,000	50	870	3,050	11,110	150	580	200	990	18,030
South Korea	32,300	10,710	130	1,230	1,710	2,750	770	640	900	2,580	21,600
India	19,460	10,680	80	810	2,920	4,460	310	310	370	1,420	8,780
Kuwait	8,000	6,010	0	150	40	5,510	50	80	20	170	1,990
Vietnam	16,620	5,110	60	840	1,410	1,450	260	380	190	530	11,510
Canada	14,410	4,040	120	980	290	1,050	130	190	450	850	10,370
Nepal	7,460	3,880	30	560	2,130	680	110	160	70	160	3,580
Malaysia	5,590	3,410	70	330	250	1,620	350	170	270	360	2,180
Nigeria	6,540	3,160	20	600	630	1,250	50	150	100	360	3,380
Mexico	7,070	2,330	50	240	260	1,130	60	110	160	320	4,740
Japan	9,470	2,150	70	220	270	260	100	120	260	840	7,320
Indonesia	5,480	2,070	130	130	330	860	120	60	110	330	3,400

Place of origin	All fields	S&E									Non-S&E
		Total	Agricultural sciences	Biological sciences	Computer sciences	Engineering	Mathematics	Physical sciences	Psychology	Social sciences	
Taiwan	6,790	1,910	60	300	320	510	120	100	170	350	4,880
Brazil	7,330	1,850	10	200	290	720	30	50	140	400	5,480
Hong Kong	4,840	1,740	60	180	240	350	130	80	220	470	3,100
Turkey	3,770	1,690	10	70	340	810	30	40	90	310	2,080
Oman	2,470	1,630	10	40	80	1,340	10	60	20	70	840
Venezuela	5,710	1,590	10	140	210	820	30	40	100	240	4,130
United Kingdom	6,660	1,530	40	230	110	230	90	80	270	480	5,130
Other locations	104,800	36,480	670	4,880	5,840	12,650	1,240	1,620	2,630	6,960	68,320
2017											
All locations	440,720	176,930	2,980	16,670	32,460	61,100	15,340	8,410	9,440	30,530	263,790
China	140,950	59,420	1,320	3,740	10,080	13,730	11,010	3,470	2,870	13,210	81,540
Saudi Arabia	28,810	13,910	40	710	2,500	9,040	130	530	180	790	14,890
India	21,020	11,810	90	920	3,470	4,650	410	380	410	1,510	9,210
South Korea	28,850	10,000	130	1,140	1,870	2,560	780	560	770	2,190	18,850
Kuwait	8,150	6,250	10	160	50	5,700	40	90	30	190	1,900
Vietnam	17,540	5,650	60	950	1,680	1,580	270	390	220	520	11,890

Place of origin	All fields	S&E									Non-S&E
		Total	Agricultural sciences	Biological sciences	Computer sciences	Engineering	Mathematics	Physical sciences	Psychology	Social sciences	
Nepal	8,390	4,330	30	530	2,350	910	140	150	70	150	4,060
Canada	13,670	3,930	100	920	340	990	140	180	440	820	9,730
Malaysia	5,420	3,410	80	310	300	1,530	340	220	270	360	2,020
Nigeria	6,390	3,050	20	600	680	1,190	40	120	100	310	3,340
Mexico	9,340	2,150	70	210	310	280	90	110	240	860	7,180
Brazil	6,380	2,140	50	240	250	1,020	50	110	150	280	4,240
Japan	8,140	2,120	30	250	330	780	50	60	170	450	6,020
Taiwan	6,900	2,050	70	270	410	500	130	100	180	390	4,850
Indonesia	4,970	1,960	90	140	360	770	130	60	100	320	3,010
Oman	3,640	1,660	10	60	380	760	30	30	90	300	1,980
Turkey	2,510	1,640	10	50	90	1,300	20	80	20	80	860
Pakistan	3,230	1,640	10	110	430	660	70	50	40	290	1,580
United Kingdom	4,310	1,530	60	170	250	300	120	80	190	370	2,790
Venezuela	6,390	1,500	40	210	130	220	80	80	260	480	4,890
Other locations	105,750	36,770	700	4,990	6,200	12,660	1,280	1,590	2,670	6,680	68,970

Note(s)

Data include active foreign national students on F-1 visas and exclude those on optional practical training. Undergraduate enrollment includes associate's and bachelor's degrees. Numbers are rounded to the nearest 10. Places of origin are ordered by total number of S&E students. Detail may not add to total because of rounding. Physical sciences include earth, atmospheric, and ocean sciences. Data include students who are in the SEVIS database between 16 April and 15 November of each year.

Source(s)

U.S. Department of Homeland Security, U.S. Immigration and Customs Enforcement, special tabulations (2017), Student and Exchange Visitor Information System (SEVIS) database.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-17

Undergraduate enrollment in engineering and engineering technology programs: 2006–15

(Number)

Enrollment level	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Full-time engineering students	374,202	385,690	403,191	427,503	450,685	471,730	504,690	543,942	569,930	610,461
Freshman	102,125	106,110	110,543	113,588	118,831	122,820	133,082	141,143	143,063	149,473
Sophomore	79,883	83,753	88,227	94,111	97,909	102,125	110,011	120,328	124,120	132,769
Junior	79,244	80,647	86,835	92,758	97,519	102,102	108,862	118,600	128,228	135,804
Senior	112,950	115,180	117,586	127,046	136,426	144,683	152,735	163,871	174,519	192,415
Part-time engineering students	31,331	30,971	31,828	32,085	34,903	38,470	42,724	45,644	48,781	54,450

Source(s)

American Society for Engineering Education, Engineering by the Numbers, Fall 2015 (2017), https://www.asee.org/papers-and-publications/publications/college-profiles/15EngineeringbytheNumbersPart1.pdf.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-18

Earned associate's degrees, by sex and field: 2000–15

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Both sexes																
All fields	573,496	585,610	600,294	637,953	670,335	701,734	718,182	733,151	755,598	793,279	856,381	949,963	1,025,882	1,015,211	1,012,523	1,024,187
S&E	38,434	45,226	51,194	62,805	60,246	54,750	49,850	47,485	49,166	54,284	62,211	76,021	84,641	85,798	87,976	90,589
Engineering	1,794	1,898	1,781	2,278	2,843	2,557	2,291	2,272	2,403	2,329	2,665	2,994	3,538	3,871	4,409	5,004
Aerospace	1	0	0	0	0	0	2	0	0	0	2	0	3	1	0	3
Chemical	16	18	28	7	305	2	7	3	1	10	9	31	13	22	21	50
Civil	58	53	46	62	58	52	43	64	37	62	47	71	93	121	110	103
Electrical	280	309	182	672	910	691	531	459	422	242	236	199	209	202	319	346
Industrial	67	132	80	81	49	88	57	56	57	83	72	69	67	64	66	99
Materials	11	14	10	12	12	13	10	8	9	5	10	6	1	6	11	11
Mechanical	77	67	65	69	70	64	68	77	100	121	137	139	177	184	213	209
Other	1,284	1,305	1,370	1,375	1,439	1,647	1,573	1,605	1,777	1,806	2,152	2,479	2,975	3,271	3,669	4,183
Science	36,640	43,328	49,413	60,527	57,403	52,193	47,559	45,213	46,763	51,955	59,546	73,027	81,103	81,927	83,567	85,585
Natural sciences	29,130	35,718	41,243	52,130	48,289	42,494	37,622	34,536	35,299	37,536	40,801	48,061	52,834	51,535	51,491	51,929
Agricultural sciences	1,976	2,106	2,001	2,018	1,966	1,908	1,934	1,790	1,762	1,811	1,952	2,138	2,530	2,392	2,484	2,678
Biological sciences	1,484	1,536	1,577	1,786	1,753	1,979	2,028	2,224	2,379	2,546	2,881	3,440	4,003	4,340	4,689	5,071

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth, atmospheric, and ocean sciences	82	82	58	52	41	45	67	69	67	98	99	95	103	112	136	153
Atmospheric sciences	0	1	0	0	2	2	7	10	5	4	16	10	9	4	6	3
Earth sciences	28	38	28	34	25	23	40	41	39	59	55	50	67	70	96	112
Oceanography	54	43	30	18	14	20	20	18	23	35	28	35	27	38	34	38
Mathematics and computer sciences	24,251	30,809	36,264	47,135	42,955	36,947	31,923	28,507	29,182	30,980	33,565	39,320	42,631	40,699	39,783	39,118
Computer sciences	23,576	30,113	35,578	46,400	42,153	36,140	31,170	27,680	28,327	30,050	32,514	37,675	41,102	38,897	37,643	36,421
Mathematics and statistics	675	696	686	735	802	807	753	827	855	930	1,051	1,645	1,529	1,802	2,140	2,697
Physical sciences	1,337	1,185	1,343	1,139	1,574	1,615	1,670	1,946	1,909	2,101	2,304	3,068	3,567	3,992	4,399	4,909
Astronomy	1	1	2	2	1	3	4	2	2	4	3	1	4	4	9	5
Chemistry	301	183	201	251	279	304	298	354	387	422	404	459	533	626	704	828
Physics	171	167	177	191	193	196	143	164	151	184	248	260	318	378	516	738
Other physical sciences	864	834	963	695	1,101	1,112	1,225	1,426	1,369	1,491	1,649	2,348	2,712	2,984	3,170	3,338
Social and behavioral sciences	7,510	7,610	8,170	8,397	9,114	9,699	9,937	10,677	11,464	14,419	18,745	24,966	28,269	30,392	32,076	33,656
Psychology	1,454	1,553	1,704	1,785	1,887	1,942	1,944	2,213	2,412	3,949	6,582	3,866	4,701	6,118	7,529	8,736
Social sciences	6,056	6,057	6,466	6,612	7,227	7,757	7,993	8,464	9,052	10,470	12,163	21,100	23,568	24,274	24,547	24,920
Anthropology	52	80	83	76	95	120	114	117	153	149	191	231	337	326	384	441
Area and ethnic studies	250	299	314	121	98	106	114	148	163	170	208	216	189	254	341	365
Economics	210	209	221	222	268	298	316	281	311	361	387	357	402	484	434	575
Linguistics	0	0	0	0	0	6	1	4	1	1	3	0	1	3	30	8

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Political science and public administration	1,033	913	926	1,159	1,402	1,566	1,749	1,788	1,746	1,831	2,052	4,592	5,799	6,549	6,911	6,835
Sociology	366	371	416	456	552	500	475	510	546	599	658	862	1,063	1,598	2,050	2,554
Other social sciences	4,145	4,185	4,506	4,578	4,812	5,161	5,224	5,616	6,132	7,359	8,664	14,842	15,777	15,060	14,397	14,142
Non-S&E	535,062	540,384	549,100	575,148	610,089	646,984	668,332	685,666	706,432	738,995	794,170	873,942	941,241	929,413	924,547	933,598
S&E technologies	83,653	82,055	76,677	82,133	87,943	92,521	96,772	101,898	106,183	111,172	124,476	148,636	165,631	156,573	148,966	144,098
Engineering technologies	40,470	39,732	37,901	39,600	37,020	32,488	29,710	30,097	31,643	33,243	34,553	38,222	40,609	37,475	34,638	34,764
Health technologies	41,959	41,013	37,687	41,353	49,497	58,432	65,227	69,591	72,241	75,734	87,437	107,577	121,797	115,739	110,779	105,513
Science technologies	1,159	1,190	1,027	1,095	1,133	1,246	1,225	1,429	1,448	1,474	1,818	1,981	2,239	2,357	2,465	2,592
Other S&E technologies	65	120	62	85	293	355	610	781	851	721	668	856	986	1,002	1,084	1,229
Male																
All fields	228,913	234,384	239,864	254,633	261,845	269,283	271,951	277,006	284,443	300,266	325,486	363,998	395,067	391,816	394,169	400,407
S&E	20,101	24,722	29,609	38,126	36,955	33,964	30,680	29,069	30,266	32,506	36,468	43,490	48,776	48,607	49,753	50,540
Engineering	1,545	1,582	1,483	1,905	2,247	2,185	1,970	1,944	2,089	2,002	2,308	2,557	3,049	3,329	3,819	4,309
Aerospace	1	0	0	0	0	0	2	0	0	0	2	0	3	1	0	1
Chemical	11	16	26	6	117	1	5	2	1	8	5	24	11	14	12	37
Civil	38	34	29	48	41	39	31	44	31	48	40	55	70	95	84	91
Electrical	250	269	144	554	766	600	475	403	387	221	215	172	189	173	293	308
Industrial	52	115	74	70	43	82	48	47	50	76	62	61	59	56	64	91
Materials	10	11	9	8	10	11	7	7	8	5	7	5	1	5	8	10

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mechanical	69	60	56	62	66	62	65	71	91	102	122	124	164	164	195	174
Other	1,114	1,077	1,145	1,157	1,204	1,390	1,337	1,370	1,521	1,542	1,855	2,116	2,552	2,821	3,163	3,597
Science	18,556	23,140	28,126	36,221	34,708	31,779	28,710	27,125	28,177	30,504	34,160	40,933	45,727	45,278	45,934	46,231
Natural sciences	16,356	21,000	25,834	33,749	32,187	29,026	25,889	24,056	24,826	26,465	29,003	34,432	38,351	37,134	37,188	37,036
Agricultural sciences	1,185	1,319	1,237	1,244	1,257	1,259	1,194	1,116	1,127	1,124	1,157	1,364	1,588	1,469	1,485	1,623
Biological sciences	496	501	500	580	608	667	702	751	741	823	942	1,192	1,348	1,405	1,542	1,689
Earth, atmospheric, and ocean sciences	45	48	37	30	21	25	38	44	34	65	65	63	69	77	94	97
Atmospheric sciences	0	1	0	0	1	1	4	8	2	3	13	7	9	3	5	2
Earth sciences	12	26	17	15	12	11	24	22	18	42	31	29	42	43	60	69
Oceanography	33	21	20	15	8	13	10	14	14	20	21	27	18	31	29	26
Mathematics and computer sciences	14,011	18,534	23,362	31,299	29,417	26,115	22,965	21,040	21,818	23,243	25,455	30,140	33,338	31,911	31,504	30,772
Computer sciences	13,603	18,084	22,916	30,833	28,914	25,586	22,482	20,492	21,243	22,608	24,730	29,115	32,288	30,668	30,012	28,857
Mathematics and statistics	408	450	446	466	503	529	483	548	575	635	725	1,025	1,050	1,243	1,492	1,915
Physical sciences	619	598	698	596	884	960	990	1,105	1,106	1,210	1,384	1,673	2,008	2,272	2,563	2,855
Astronomy	1	1	1	1	1	3	4	1	2	3	3	0	2	3	7	5
Chemistry	126	99	108	121	125	156	153	150	183	197	214	222	276	314	384	443
Physics	94	107	109	132	134	132	117	131	118	145	189	194	252	290	389	559
Other physical sciences	398	391	480	342	624	669	716	823	803	865	978	1,257	1,478	1,665	1,783	1,848
Social and behavioral sciences	2,200	2,140	2,292	2,472	2,521	2,753	2,821	3,069	3,351	4,039	5,157	6,501	7,376	8,144	8,746	9,195

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Psychology	326	360	370	441	434	445	446	517	554	744	1,271	896	1,090	1,496	1,795	2,050
Social sciences	1,874	1,780	1,922	2,031	2,087	2,308	2,375	2,552	2,797	3,295	3,886	5,605	6,286	6,648	6,951	7,145
Anthropology	21	30	28	35	26	40	26	33	44	50	61	67	127	115	126	151
Area and ethnic studies	56	44	63	33	40	40	36	53	59	52	88	66	63	100	131	148
Economics	116	114	90	113	141	158	178	154	165	220	233	209	240	284	263	325
Linguistics	0	0	0	0	0	3	0	0	0	0	1	0	0	1	12	2
Political science and public administration	251	204	225	271	286	372	367	361	386	437	475	811	1,061	1,186	1,308	1,357
Sociology	89	104	111	126	130	123	134	133	142	158	166	221	291	428	532	682
Other social sciences	1,341	1,284	1,405	1,453	1,464	1,572	1,634	1,818	2,001	2,378	2,862	4,231	4,504	4,534	4,579	4,480
Non-S&E	208,812	209,662	210,255	216,507	224,890	235,319	241,271	247,937	254,177	267,760	289,018	320,508	346,291	343,209	344,416	349,867
S&E technologies	42,251	40,951	38,395	40,095	40,027	38,269	37,651	39,063	41,208	42,897	45,746	52,795	58,228	54,566	51,978	51,343
Engineering technologies	34,511	33,581	32,084	33,146	31,393	27,632	25,295	25,788	27,183	28,505	29,864	33,301	35,697	32,699	30,353	30,401
Health technologies	6,995	6,591	5,668	6,232	7,712	9,620	11,129	11,810	12,493	12,947	14,208	17,536	20,374	19,602	19,248	18,328
Science technologies	691	683	589	645	682	714	717	824	838	882	1,143	1,265	1,387	1,492	1,479	1,599
Other S&E technologies	54	96	54	72	240	303	510	641	694	563	531	693	770	773	898	1,015
Female																
All fields	344,583	351,226	360,430	383,320	408,490	432,451	446,231	456,145	471,155	493,013	530,895	585,965	630,815	623,395	618,354	623,780
S&E	18,333	20,504	21,585	24,679	23,291	20,786	19,170	18,416	18,900	21,778	25,743	32,531	35,865	37,191	38,223	40,049
Engineering	249	316	298	373	596	372	321	328	314	327	357	437	489	542	590	695

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aerospace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Chemical	5	2	2	1	188	1	2	1	0	2	4	7	2	8	9	13
Civil	20	19	17	14	17	13	12	20	6	14	7	16	23	26	26	12
Electrical	30	40	38	118	144	91	56	56	35	21	21	27	20	29	26	38
Industrial	15	17	6	11	6	6	9	9	7	7	10	8	8	8	2	8
Materials	1	3	1	4	2	2	3	1	1	0	3	1	0	1	3	1
Mechanical	8	7	9	7	4	2	3	6	9	19	15	15	13	20	18	35
Other	170	228	225	218	235	257	236	235	256	264	297	363	423	450	506	586
Science	18,084	20,188	21,287	24,306	22,695	20,414	18,849	18,088	18,586	21,451	25,386	32,094	35,376	36,649	37,633	39,354
Natural sciences	12,774	14,718	15,409	18,381	16,102	13,468	11,733	10,480	10,473	11,071	11,798	13,629	14,483	14,401	14,303	14,893
Agricultural sciences	791	787	764	774	709	649	740	674	635	687	795	774	942	923	999	1,055
Biological sciences	988	1,035	1,077	1,206	1,145	1,312	1,326	1,473	1,638	1,723	1,939	2,248	2,655	2,935	3,147	3,382
Earth, atmospheric, and ocean sciences	37	34	21	22	20	20	29	25	33	33	34	32	34	35	42	56
Atmospheric sciences	0	0	0	0	1	1	3	2	3	1	3	3	0	1	1	1
Earth sciences	16	12	11	19	13	12	16	19	21	17	24	21	25	27	36	43
Oceanography	21	22	10	3	6	7	10	4	9	15	7	8	9	7	5	12
Mathematics and computer sciences	10,240	12,275	12,902	15,836	13,538	10,832	8,958	7,467	7,364	7,737	8,110	9,180	9,293	8,788	8,279	8,346
Computer sciences	9,973	12,029	12,662	15,567	13,239	10,554	8,688	7,188	7,084	7,442	7,784	8,560	8,814	8,229	7,631	7,564
Mathematics and statistics	267	246	240	269	299	278	270	279	280	295	326	620	479	559	648	782

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Physical sciences	718	587	645	543	690	655	680	841	803	891	920	1,395	1,559	1,720	1,836	2,054
Astronomy	0	0	1	1	0	0	0	1	0	1	0	1	2	1	2	0
Chemistry	175	84	93	130	154	148	145	204	204	225	190	237	257	312	320	385
Physics	77	60	68	59	59	64	26	33	33	39	59	66	66	88	127	179
Other physical sciences	466	443	483	353	477	443	509	603	566	626	671	1,091	1,234	1,319	1,387	1,490
Social and behavioral sciences	5,310	5,470	5,878	5,925	6,593	6,946	7,116	7,608	8,113	10,380	13,588	18,465	20,893	22,248	23,330	24,461
Psychology	1,128	1,193	1,334	1,344	1,453	1,497	1,498	1,696	1,858	3,205	5,311	2,970	3,611	4,622	5,734	6,686
Social sciences	4,182	4,277	4,544	4,581	5,140	5,449	5,618	5,912	6,255	7,175	8,277	15,495	17,282	17,626	17,596	17,775
Anthropology	31	50	55	41	69	80	88	84	109	99	130	164	210	211	258	290
Area and ethnic studies	194	255	251	88	58	66	78	95	104	118	120	150	126	154	210	217
Economics	94	95	131	109	127	140	138	127	146	141	154	148	162	200	171	250
Linguistics	0	0	0	0	0	3	1	4	1	1	2	0	1	2	18	6
Political science and public administration	782	709	701	888	1,116	1,194	1,382	1,427	1,360	1,394	1,577	3,781	4,738	5,363	5,603	5,478
Sociology	277	267	305	330	422	377	341	377	404	441	492	641	772	1,170	1,518	1,872
Other social sciences	2,804	2,901	3,101	3,125	3,348	3,589	3,590	3,798	4,131	4,981	5,802	10,611	11,273	10,526	9,818	9,662
Non-S&E	326,250	330,722	338,845	358,641	385,199	411,665	427,061	437,729	452,255	471,235	505,152	553,434	594,950	586,204	580,131	583,731
S&E technologies	41,402	41,104	38,282	42,038	47,916	54,252	59,121	62,835	64,975	68,275	78,730	95,841	107,403	102,007	96,988	92,755
Engineering technologies	5,959	6,151	5,817	6,454	5,627	4,856	4,415	4,309	4,460	4,738	4,689	4,921	4,912	4,776	4,285	4,363
Health technologies	34,964	34,422	32,019	35,121	41,785	48,812	54,098	57,781	59,748	62,787	73,229	90,041	101,423	96,137	91,531	87,185

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Science technologies	468	507	438	450	451	532	508	605	610	592	675	716	852	865	986	993
Other S&E technologies	11	24	8	13	53	52	100	140	157	158	137	163	216	229	186	214

Note(s)

Engineering technologies are more focused on applied skills than on fundamental science and mathematics. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data from *Science and Engineering Indicators 2008* and earlier years that were based on accredited higher education institutions.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-19

Earned associate's degrees, by citizenship, field, race, and ethnicity: 2000–15

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All citizenships, races, and ethnicities																
All fields	573,496	585,610	600,294	637,953	670,335	701,734	718,182	733,151	755,598	793,279	856,381	949,963	1,025,882	1,015,211	1,012,523	1,024,187
S&E	38,434	45,226	51,194	62,805	60,246	54,750	49,850	47,485	49,166	54,284	62,211	76,021	84,641	85,798	87,976	90,589
Engineering	1,794	1,898	1,781	2,278	2,843	2,557	2,291	2,272	2,403	2,329	2,665	2,994	3,538	3,871	4,409	5,004
Aerospace	1	0	0	0	0	0	2	0	0	0	2	0	3	1	0	3
Chemical	16	18	28	7	305	2	7	3	1	10	9	31	13	22	21	50
Civil	58	53	46	62	58	52	43	64	37	62	47	71	93	121	110	103
Electrical	280	309	182	672	910	691	531	459	422	242	236	199	209	202	319	346
Industrial	67	132	80	81	49	88	57	56	57	83	72	69	67	64	66	99
Materials	11	14	10	12	12	13	10	8	9	5	10	6	1	6	11	11
Mechanical	77	67	65	69	70	64	68	77	100	121	137	139	177	184	213	209
Other	1,284	1,305	1,370	1,375	1,439	1,647	1,573	1,605	1,777	1,806	2,152	2,479	2,975	3,271	3,669	4,183
Science	36,640	43,328	49,413	60,527	57,403	52,193	47,559	45,213	46,763	51,955	59,546	73,027	81,103	81,927	83,567	85,585
Natural sciences	29,130	35,718	41,243	52,130	48,289	42,494	37,622	34,536	35,299	37,536	40,801	48,061	52,834	51,535	51,491	51,929
Agricultural sciences	1,976	2,106	2,001	2,018	1,966	1,908	1,934	1,790	1,762	1,811	1,952	2,138	2,530	2,392	2,484	2,678
Biological sciences	1,484	1,536	1,577	1,786	1,753	1,979	2,028	2,224	2,379	2,546	2,881	3,440	4,003	4,340	4,689	5,071

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth, atmospheric, and ocean sciences	82	82	58	52	41	45	67	69	67	98	99	95	103	112	136	153
Atmospheric sciences	0	1	0	0	2	2	7	10	5	4	16	10	9	4	6	3
Earth sciences	28	38	28	34	25	23	40	41	39	59	55	50	67	70	96	112
Oceanography	54	43	30	18	14	20	20	18	23	35	28	35	27	38	34	38
Mathematics and computer sciences	24,251	30,809	36,264	47,135	42,955	36,947	31,923	28,507	29,182	30,980	33,565	39,320	42,631	40,699	39,783	39,118
Computer sciences	23,576	30,113	35,578	46,400	42,153	36,140	31,170	27,680	28,327	30,050	32,514	37,675	41,102	38,897	37,643	36,421
Mathematics	675	696	686	735	802	807	753	827	855	930	1,051	1,645	1,529	1,802	2,140	2,697
Physical sciences	1,337	1,185	1,343	1,139	1,574	1,615	1,670	1,946	1,909	2,101	2,304	3,068	3,567	3,992	4,399	4,909
Astronomy	1	1	2	2	1	3	4	2	2	4	3	1	4	4	9	5
Chemistry	301	183	201	251	279	304	298	354	387	422	404	459	533	626	704	828
Physics	171	167	177	191	193	196	143	164	151	184	248	260	318	378	516	738
Other physical sciences	864	834	963	695	1,101	1,112	1,225	1,426	1,369	1,491	1,649	2,348	2,712	2,984	3,170	3,338
Social and behavioral sciences	7,510	7,610	8,170	8,397	9,114	9,699	9,937	10,677	11,464	14,419	18,745	24,966	28,269	30,392	32,076	33,656
Psychology	1,454	1,553	1,704	1,785	1,887	1,942	1,944	2,213	2,412	3,949	6,582	3,866	4,701	6,118	7,529	8,736
Social sciences	6,056	6,057	6,466	6,612	7,227	7,757	7,993	8,464	9,052	10,470	12,163	21,100	23,568	24,274	24,547	24,920
Anthropology	52	80	83	76	95	120	114	117	153	149	191	231	337	326	384	441
Area and ethnic studies	250	299	314	121	98	106	114	148	163	170	208	216	189	254	341	365
Economics	210	209	221	222	268	298	316	281	311	361	387	357	402	484	434	575
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Linguistics	0	0	0	0	0	6	1	4	1	1	3	0	1	3	30	8
Political science and public administration	1,033	913	926	1,159	1,402	1,566	1,749	1,788	1,746	1,831	2,052	4,592	5,799	6,549	6,911	6,835
Sociology	366	371	416	456	552	500	475	510	546	599	658	862	1,063	1,598	2,050	2,554
Other social sciences	4,145	4,185	4,506	4,578	4,812	5,161	5,224	5,616	6,132	7,359	8,664	14,842	15,777	15,060	14,397	14,142
Non-S&E	535,062	540,384	549,100	575,148	610,089	646,984	668,332	685,666	706,432	738,995	794,170	873,942	941,241	929,413	924,547	933,598
S&E technologies	83,653	82,055	76,677	82,133	87,943	92,521	96,772	101,898	106,183	111,172	124,476	148,636	165,631	156,573	148,966	144,098
Engineering technologies	40,470	39,732	37,901	39,600	37,020	32,488	29,710	30,097	31,643	33,243	34,553	38,222	40,609	37,475	34,638	34,764
Health technologies	41,959	41,013	37,687	41,353	49,497	58,432	65,227	69,591	72,241	75,734	87,437	107,577	121,797	115,739	110,779	105,513
Science technologies	1,159	1,190	1,027	1,095	1,133	1,246	1,225	1,429	1,448	1,474	1,818	1,981	2,239	2,357	2,465	2,592
Other S&E technologies	65	120	62	85	293	355	610	781	851	721	668	856	986	1,002	1,084	1,229
U.S. citizen or permanent resident																
All fields	563,380	574,008	588,000	624,467	655,767	687,613	704,750	719,324	741,153	778,055	840,221	933,331	1,008,751	998,339	995,410	1,006,203
S&E	37,585	44,071	49,778	61,190	58,625	53,398	48,751	46,590	48,212	53,128	60,911	74,500	83,039	84,211	86,261	88,653
Engineering	1,726	1,801	1,724	2,197	2,725	2,435	2,204	2,179	2,314	2,180	2,514	2,810	3,298	3,697	4,213	4,776
Aerospace	1	0	0	0	0	0	1	0	0	0	2	0	3	0	0	3
Chemical	14	17	26	7	302	2	5	2	1	6	7	22	12	19	18	43
Civil	54	53	44	56	57	52	39	63	34	55	41	65	84	110	105	102
Electrical	277	271	181	668	896	682	529	452	416	227	228	189	198	193	305	334
Industrial	66	130	78	80	49	85	55	53	57	83	72	69	67	64	66	98

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Materials	11	14	10	12	12	13	10	8	9	5	10	6	1	6	11	11
Mechanical	76	67	64	68	69	62	68	76	95	118	120	127	162	175	185	185
Other	1,227	1,249	1,321	1,306	1,340	1,539	1,497	1,525	1,702	1,686	2,034	2,332	2,771	3,130	3,523	4,000
Science	35,859	42,270	48,054	58,993	55,900	50,963	46,547	44,411	45,898	50,948	58,397	71,690	79,741	80,514	82,048	83,877
Natural sciences	28,500	34,841	40,055	50,791	47,015	41,475	36,791	33,910	34,627	36,761	39,955	47,075	51,861	50,566	50,410	50,726
Agricultural sciences	1,953	2,060	1,949	2,007	1,923	1,893	1,892	1,782	1,746	1,799	1,939	2,128	2,517	2,376	2,462	2,586
Biological sciences	1,457	1,501	1,547	1,737	1,696	1,921	1,964	2,163	2,296	2,474	2,773	3,348	3,910	4,226	4,577	4,979
Earth, atmospheric, and ocean sciences	81	78	57	52	39	45	65	65	64	98	96	93	101	109	135	152
Atmospheric sciences	0	1	0	0	2	2	7	9	5	4	16	9	9	4	6	3
Earth sciences	27	34	27	34	23	23	38	38	36	59	52	49	65	67	95	111
Oceanography	54	43	30	18	14	20	20	18	23	35	28	35	27	38	34	38
Mathematics and computer sciences	23,727	30,050	35,203	45,914	41,869	36,118	31,327	28,059	28,744	30,455	33,009	38,696	42,053	40,117	39,143	38,476
Computer sciences	23,085	29,396	34,553	45,225	41,114	35,371	30,628	27,261	27,934	29,567	32,019	37,126	40,610	38,384	37,098	35,874
Mathematics	642	654	650	689	755	747	699	798	810	888	990	1,570	1,443	1,733	2,045	2,602
Physical sciences	1,282	1,152	1,299	1,081	1,488	1,498	1,543	1,841	1,777	1,935	2,138	2,810	3,280	3,738	4,093	4,533
Astronomy	1	1	2	2	1	3	4	2	1	4	3	1	4	4	9	4
Chemistry	269	174	196	238	266	285	279	336	377	399	383	431	500	607	683	803
Physics	163	164	172	175	184	185	131	160	137	174	242	251	307	370	495	715
Other physical sciences	849	813	929	666	1,037	1,025	1,129	1,343	1,262	1,358	1,510	2,127	2,469	2,757	2,906	3,011

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Social and behavioral sciences	7,359	7,429	7,999	8,202	8,885	9,488	9,756	10,501	11,271	14,187	18,442	24,615	27,880	29,948	31,638	33,151
Psychology	1,432	1,528	1,668	1,742	1,843	1,904	1,922	2,192	2,382	3,897	6,501	3,810	4,664	6,056	7,449	8,621
Social sciences	5,927	5,901	6,331	6,460	7,042	7,584	7,834	8,309	8,889	10,290	11,941	20,805	23,216	23,892	24,189	24,530
Anthropology	49	78	82	76	93	119	111	113	150	148	187	228	335	324	384	434
Area and ethnic studies	234	278	299	115	95	104	110	148	161	164	196	205	185	249	331	361
Economics	192	182	201	191	230	266	287	262	279	326	338	312	344	431	382	510
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	2	1	4	1	1	2	0	1	2	27	8
Political science and public administration	1,021	899	915	1,149	1,379	1,553	1,723	1,767	1,723	1,812	2,032	4,558	5,753	6,483	6,858	6,778
Sociology	362	361	410	450	531	481	460	491	528	592	649	850	1,047	1,580	2,037	2,536
Other social sciences	4,069	4,103	4,424	4,479	4,714	5,059	5,142	5,524	6,047	7,247	8,537	14,652	15,551	14,823	14,170	13,903
Non-S&E	525,795	529,937	538,222	563,277	597,142	634,215	655,999	672,734	692,941	724,927	779,310	858,831	925,712	914,128	909,149	917,550
S&E technologies	83,092	80,940	75,972	81,329	87,045	91,648	95,965	101,114	105,255	110,297	123,446	147,677	164,609	155,529	148,010	143,213
Engineering technologies	40,133	38,894	37,459	39,140	36,513	32,131	29,391	29,800	31,315	32,966	34,210	37,934	40,345	37,157	34,327	34,452
Health technologies	41,743	40,756	37,435	41,022	49,127	57,936	64,760	69,133	71,670	75,163	86,793	106,941	121,083	115,062	110,177	104,976
Science technologies	1,151	1,170	1,016	1,082	1,112	1,226	1,204	1,400	1,419	1,447	1,775	1,946	2,195	2,308	2,422	2,556
Other S&E technologies	65	120	62	85	293	355	610	781	851	721	668	856	986	1,002	1,084	1,229
Hispanic or Latino[a]																
All fields	57,971	61,364	62,072	67,476	72,626	78,555	80,417	84,462	89,899	96,387	110,056	123,212	148,604	156,071	166,346	181,156

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
S&E	4,361	5,105	5,582	6,994	6,910	6,615	6,006	6,118	6,376	7,157	8,412	9,845	12,369	14,526	16,963	19,046
Engineering	181	196	143	339	558	373	345	344	350	326	348	409	453	579	709	815
Aerospace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemical	3	0	2	0	89	0	2	0	0	1	0	3	1	5	4	2
Civil	5	2	6	2	5	2	6	19	9	25	6	11	21	30	51	42
Electrical	48	57	14	195	320	199	171	110	124	64	51	45	36	42	65	68
Industrial	7	33	11	8	3	0	9	8	5	1	1	3	9	6	11	25
Materials	0	0	1	0	0	0	0	1	0	0	1	1	0	0	2	1
Mechanical	21	19	23	18	17	14	17	27	20	29	28	35	32	32	30	36
Other	97	85	86	116	124	158	140	179	192	206	261	311	354	464	546	641
Science	4,180	4,909	5,439	6,655	6,352	6,242	5,661	5,774	6,026	6,831	8,064	9,436	11,916	13,947	16,254	18,231
Natural sciences	2,986	3,653	4,081	5,149	4,772	4,493	3,914	3,772	3,709	3,940	4,501	4,972	6,125	6,789	7,492	8,078
Agricultural sciences	77	109	86	68	54	43	58	59	47	44	63	67	91	108	115	158
Biological sciences	186	222	189	218	208	229	279	352	377	438	522	649	945	1,072	1,258	1,463
Earth, atmospheric, and ocean sciences	1	3	1	1	2	5	3	3	1	4	7	3	12	13	13	18
Atmospheric sciences	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Earth sciences	1	3	1	1	1	4	1	2	1	3	7	3	12	12	11	17
Oceanography	0	0	0	0	1	1	2	0	0	1	0	0	0	1	2	1
Mathematics and computer sciences	2,550	3,158	3,654	4,717	4,347	4,042	3,416	3,151	3,065	3,193	3,581	3,852	4,479	4,922	5,251	5,382

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Computer sciences	2,453	3,058	3,549	4,593	4,216	3,888	3,261	2,980	2,897	2,995	3,337	3,511	4,081	4,450	4,574	4,601
Mathematics	97	100	105	124	131	154	155	171	168	198	244	341	398	472	677	781
Physical sciences	172	161	151	145	161	174	158	207	219	261	328	401	598	674	855	1,057
Astronomy	1	0	0	2	0	0	0	0	0	1	3	0	0	1	3	2
Chemistry	42	27	24	42	37	48	40	56	62	61	60	74	117	140	181	208
Physics	76	70	68	59	50	61	30	34	31	45	92	75	102	127	169	242
Other physical sciences	53	64	59	42	74	65	88	117	126	154	173	252	379	406	502	605
Social and behavioral sciences	1,194	1,256	1,358	1,506	1,580	1,749	1,747	2,002	2,317	2,891	3,563	4,464	5,791	7,158	8,762	10,153
Psychology	193	222	260	298	338	384	366	447	492	678	942	944	1,364	1,930	2,648	3,379
Social sciences	1,001	1,034	1,098	1,208	1,242	1,365	1,381	1,555	1,825	2,213	2,621	3,520	4,427	5,228	6,114	6,774
Anthropology	8	11	13	16	17	14	11	15	29	24	29	49	93	95	108	131
Area and ethnic studies	17	7	15	24	12	20	18	28	29	31	39	41	45	60	84	78
Economics	50	43	55	50	58	65	60	58	55	84	85	82	102	132	142	172
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	0	0	1	0	1	0	0	0	1	7	3
Political science and public administration	249	195	219	250	223	241	259	287	280	308	358	574	686	816	1,026	1,189
Sociology	63	79	92	109	124	123	123	138	167	160	207	270	389	616	947	1,267
Other social sciences	614	699	704	759	808	902	910	1,028	1,265	1,605	1,903	2,504	3,112	3,508	3,800	3,934
Non-S&E	53,610	56,259	56,490	60,482	65,716	71,940	74,411	78,344	83,523	89,230	101,644	113,367	136,235	141,545	149,383	162,110

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
S&E technologies	8,513	9,053	8,169	8,393	9,141	9,694	9,971	11,227	12,015	12,870	14,593	16,699	21,181	21,059	20,979	21,482
Engineering technologies	4,724	4,560	4,220	4,174	4,160	3,652	3,230	3,466	3,841	3,944	4,420	4,488	5,154	4,850	4,514	4,676
Health technologies	3,669	4,344	3,828	4,094	4,832	5,868	6,553	7,518	7,936	8,686	9,889	11,871	15,637	15,736	15,964	16,182
Science technologies	107	133	118	114	119	139	138	167	162	160	218	235	291	350	356	451
Other S&E technologies	13	16	3	11	30	35	50	76	76	80	66	105	99	123	145	173
Not Hispanic or Latino																
All fields	505,409	512,644	525,928	556,991	583,141	609,058	624,333	634,862	651,254	681,668	730,165	810,119	860,147	842,268	829,064	825,047
S&E	33,224	38,966	44,196	54,196	51,715	46,783	42,745	40,472	41,836	45,971	52,499	64,655	70,670	69,685	69,298	69,607
Engineering	1,545	1,605	1,581	1,858	2,167	2,062	1,859	1,835	1,964	1,854	2,166	2,401	2,845	3,118	3,504	3,961
Aerospace	1	0	0	0	0	0	1	0	0	0	2	0	3	0	0	3
Chemical	11	17	24	7	213	2	3	2	1	5	7	19	11	14	14	41
Civil	49	51	38	54	52	50	33	44	25	30	35	54	63	80	54	60
Electrical	229	214	167	473	576	483	358	342	292	163	177	144	162	151	240	266
Industrial	59	97	67	72	46	85	46	45	52	82	71	66	58	58	55	73
Materials	11	14	9	12	12	13	10	7	9	5	9	5	1	6	9	10
Mechanical	55	48	41	50	52	48	51	49	75	89	92	92	130	143	155	149
Other	1,130	1,164	1,235	1,190	1,216	1,381	1,357	1,346	1,510	1,480	1,773	2,021	2,417	2,666	2,977	3,359
Science	31,679	37,361	42,615	52,338	49,548	44,721	40,886	38,637	39,872	44,117	50,333	62,254	67,825	66,567	65,794	65,646
Natural sciences	25,514	31,188	35,974	45,642	42,243	36,982	32,877	30,138	30,918	32,821	35,454	42,103	45,736	43,777	42,918	42,648

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Agricultural sciences	1,876	1,951	1,863	1,939	1,869	1,850	1,834	1,723	1,699	1,755	1,876	2,061	2,426	2,268	2,347	2,428
Biological sciences	1,271	1,279	1,358	1,519	1,488	1,692	1,685	1,811	1,919	2,036	2,251	2,699	2,965	3,154	3,319	3,516
Earth, atmospheric, and ocean sciences	80	75	56	51	37	40	62	62	63	94	89	90	89	96	122	134
Atmospheric sciences	0	1	0	0	2	2	7	8	5	4	16	9	9	4	6	3
Earth sciences	26	31	26	33	22	19	37	36	35	56	45	46	53	55	84	94
Oceanography	54	43	30	18	13	19	18	18	23	34	28	35	27	37	32	37
Mathematics and computer sciences	21,177	26,892	31,549	41,197	37,522	32,076	27,911	24,908	25,679	27,262	29,428	34,844	37,574	35,195	33,892	33,094
Computer sciences	20,632	26,338	31,004	40,632	36,898	31,483	27,367	24,281	25,037	26,572	28,682	33,615	36,529	33,934	32,524	31,273
Mathematics	545	554	545	565	624	593	544	627	642	690	746	1,229	1,045	1,261	1,368	1,821
Physical sciences	1,110	991	1,148	936	1,327	1,324	1,385	1,634	1,558	1,674	1,810	2,409	2,682	3,064	3,238	3,476
Astronomy	0	1	2	0	1	3	4	2	1	3	0	1	4	3	6	2
Chemistry	227	147	172	196	229	237	239	280	315	338	323	357	383	467	502	595
Physics	87	94	104	116	134	124	101	126	106	129	150	176	205	243	326	473
Other physical sciences	796	749	870	624	963	960	1,041	1,226	1,136	1,204	1,337	1,875	2,090	2,351	2,404	2,406
Social and behavioral sciences	6,165	6,173	6,641	6,696	7,305	7,739	8,009	8,499	8,954	11,296	14,879	20,151	22,089	22,790	22,876	22,998
Psychology	1,239	1,306	1,408	1,444	1,505	1,520	1,556	1,745	1,890	3,219	5,559	2,866	3,300	4,126	4,801	5,242
Social sciences	4,926	4,867	5,233	5,252	5,800	6,219	6,453	6,754	7,064	8,077	9,320	17,285	18,789	18,664	18,075	17,756
Anthropology	41	67	69	60	76	105	100	98	121	124	158	179	242	229	276	303
Area and ethnic studies	217	271	284	91	83	84	92	120	132	133	157	164	140	189	247	283

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Economics	142	139	146	141	172	201	227	204	224	242	253	230	242	299	240	338
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	2	1	3	1	0	2	0	1	1	20	5
Political science and public administration	772	704	696	899	1,156	1,312	1,464	1,480	1,443	1,504	1,674	3,984	5,067	5,667	5,832	5,589
Sociology	299	282	318	341	407	358	337	353	361	432	442	580	658	964	1,090	1,269
Other social sciences	3,455	3,404	3,720	3,720	3,906	4,157	4,232	4,496	4,782	5,642	6,634	12,148	12,439	11,315	10,370	9,969
Non-S&E	472,185	473,678	481,732	502,795	531,426	562,275	581,588	594,390	609,418	635,697	677,666	745,464	789,477	772,583	759,766	755,440
S&E technologies	74,579	71,887	67,803	72,936	77,904	81,954	85,994	89,887	93,240	97,427	108,853	130,978	143,428	134,470	127,031	121,731
Engineering technologies	35,409	34,334	33,239	34,966	32,353	28,479	26,161	26,334	27,474	29,022	29,790	33,446	35,191	32,307	29,813	29,776
Health technologies	38,074	36,412	33,607	36,928	44,295	52,068	58,207	61,615	63,734	66,477	76,904	95,070	105,446	99,326	94,213	88,794
Science technologies	1,044	1,037	898	968	993	1,087	1,066	1,233	1,257	1,287	1,557	1,711	1,904	1,958	2,066	2,105
Other S&E technologies	52	104	59	74	263	320	560	705	775	641	602	751	887	879	939	1,056
American Indian or Alaska Native																
All fields	6,282	6,392	6,565	7,134	7,692	8,001	8,068	8,076	8,256	8,235	9,589	9,451	9,898	9,930	9,780	9,517
S&E	608	605	703	811	825	839	801	851	870	835	909	1,051	1,046	1,096	1,117	1,077
Engineering	17	18	17	24	41	38	26	34	29	20	21	42	29	45	38	36
Aerospace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	0	9	0	0	0	0	0	0	0	0	0	1	1
Civil	2	1	1	1	4	2	0	0	1	2	0	0	0	2	3	0

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Electrical	0	2	2	5	7	11	2	4	4	1	0	1	1	0	1	2
Industrial	0	0	0	2	0	2	0	0	0	2	1	2	0	0	0	1
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Mechanical	0	1	0	0	0	0	0	0	1	0	1	0	0	2	0	1
Other	15	14	14	16	21	23	24	30	23	15	19	39	28	40	33	30
Science	591	587	686	787	784	801	775	817	841	815	888	1,009	1,017	1,051	1,079	1,041
Natural sciences	384	417	444	546	524	504	498	446	474	459	531	509	543	582	601	537
Agricultural sciences	74	53	55	70	65	68	72	56	64	64	125	66	75	75	98	96
Biological sciences	39	33	43	27	47	44	65	55	59	52	54	46	66	79	69	64
Earth, atmospheric, and ocean sciences	0	0	0	1	0	0	0	1	1	2	0	0	3	2	5	6
Atmospheric sciences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Earth sciences	0	0	0	0	0	0	0	1	0	2	0	0	3	1	5	6
Oceanography	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0
Mathematics and computer sciences	258	314	329	431	388	365	335	305	313	304	315	350	358	376	380	313
Computer sciences	251	302	322	418	377	352	325	291	298	293	308	328	336	362	358	298
Mathematics	7	12	7	13	11	13	10	14	15	11	7	22	22	14	22	15
Physical sciences	13	17	17	17	24	27	26	29	37	37	37	47	41	50	49	58
Astronomy	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Chemistry	1	4	4	2	2	3	6	2	3	2	2	3	4	5	5	4

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Physics	0	2	0	3	0	2	1	5	3	2	0	2	2	2	3	4
Other physical sciences	12	11	13	12	22	21	19	22	31	33	35	42	35	43	41	50
Social and behavioral sciences	207	170	242	241	260	297	277	371	367	356	357	500	474	469	478	504
Psychology	38	34	32	31	36	56	41	73	67	71	95	81	88	85	103	124
Social sciences	169	136	210	210	224	241	236	298	300	285	262	419	386	384	375	380
Anthropology	1	2	0	1	0	2	3	3	1	3	3	5	7	4	3	5
Area and ethnic studies	32	23	30	48	42	30	52	67	75	78	75	86	69	71	84	85
Economics	2	1	3	2	1	1	0	2	0	1	2	2	6	1	1	3
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Political science and public administration	21	5	10	22	35	34	37	48	43	40	36	74	70	87	69	78
Sociology	1	4	4	6	5	17	10	20	9	11	6	7	16	23	29	25
Other social sciences	112	101	163	131	141	157	134	158	172	152	140	245	218	198	189	184
Non-S&E	5,674	5,787	5,862	6,323	6,867	7,162	7,267	7,225	7,386	7,400	8,680	8,400	8,852	8,834	8,663	8,440
S&E technologies	790	734	684	799	940	952	1,003	1,001	1,077	1,162	1,154	1,288	1,432	1,472	1,337	1,302
Engineering technologies	367	299	295	366	415	330	313	289	315	355	340	399	377	424	363	388
Health technologies	414	424	385	423	516	610	681	695	741	786	799	867	1,031	1,022	955	886
Science technologies	9	9	4	10	6	7	6	10	13	13	5	14	17	18	14	13
Other S&E technologies	0	2	0	0	3	5	3	7	8	8	10	8	7	8	5	15

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Asian																
All fields	na	na	na	na	na	na	na	na	na	na	na	38,472	41,688	43,041	44,170	46,155
S&E	na	na	na	na	na	na	na	na	na	na	na	3,952	4,471	5,235	5,466	6,206
Engineering	na	na	na	na	na	na	na	na	na	na	na	199	272	291	357	405
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	2	3	3	0	4
Civil	na	na	na	na	na	na	na	na	na	na	na	3	5	4	5	10
Electrical	na	na	na	na	na	na	na	na	na	na	na	11	19	16	29	29
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	2	1	0	3
Materials	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Mechanical	na	na	na	na	na	na	na	na	na	na	na	12	12	22	18	12
Other	na	na	na	na	na	na	na	na	na	na	na	171	231	245	305	347
Science	na	na	na	na	na	na	na	na	na	na	na	3,753	4,199	4,944	5,109	5,801
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	2,457	2,735	3,078	3,209	3,607
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	13	18	23	22	26
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	405	471	499	522	542
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	4	6	1	1	5
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	4	4	1	1	5

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	2	0	0	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	1,662	1,779	2,048	2,087	2,335
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	1,438	1,582	1,770	1,777	1,907
Mathematics	na	na	na	na	na	na	na	na	na	na	na	224	197	278	310	428
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	373	461	507	577	699
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	1	1	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	104	131	132	159	170
Physics	na	na	na	na	na	na	na	na	na	na	na	21	44	59	88	127
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	248	286	315	329	402
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	1,296	1,464	1,866	1,900	2,194
Psychology	na	na	na	na	na	na	na	na	na	na	na	174	243	364	480	562
Social sciences	na	na	na	na	na	na	na	na	na	na	na	1,122	1,221	1,502	1,420	1,632
Anthropology	na	na	na	na	na	na	na	na	na	na	na	15	16	19	22	24
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	3	10	10	13	10
Economics	na	na	na	na	na	na	na	na	na	na	na	39	49	55	36	76
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	1	4	2
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	78	83	137	122	166
Sociology	na	na	na	na	na	na	na	na	na	na	na	58	56	115	154	171

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	929	1,007	1,165	1,069	1,183
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	34,520	37,217	37,806	38,704	39,949
S&E technologies	na	na	na	na	na	na	na	na	na	na	na	4,798	5,647	5,446	5,515	5,385
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	1,007	992	1,023	966	1,040
Health technologies	na	na	na	na	na	na	na	na	na	na	na	3,665	4,489	4,273	4,392	4,137
Science technologies	na	na	na	na	na	na	na	na	na	na	na	87	122	113	131	169
Other S&E technologies	na	na	na	na	na	na	na	na	na	na	na	39	44	37	26	39
Asian or Pacific Islander[b]																
All fields	27,313	27,919	30,322	31,597	31,908	32,498	33,800	35,623	36,754	38,619	41,472	na	na	na	na	na
S&E	2,649	2,907	3,381	4,075	3,694	3,129	2,769	2,715	2,877	3,314	3,706	na	na	na	na	na
Engineering	160	132	101	142	169	147	132	175	140	177	216	na	na	na	na	na
Aerospace	0	0	0	0	0	0	0	0	0	0	0	na	na	na	na	na
Chemical	0	0	2	1	8	0	0	0	0	0	0	na	na	na	na	na
Civil	3	4	5	6	2	1	1	2	2	5	6	na	na	na	na	na
Electrical	38	18	5	36	40	14	10	59	10	7	15	na	na	na	na	na
Industrial	0	2	0	0	1	2	1	3	1	3	5	na	na	na	na	na
Materials	0	0	0	0	0	0	0	0	0	0	0	na	na	na	na	na
Mechanical	2	0	0	2	0	1	3	3	3	6	7	na	na	na	na	na
Other	117	108	89	97	118	129	117	108	124	156	183	na	na	na	na	na

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Science	2,489	2,775	3,280	3,933	3,525	2,982	2,637	2,540	2,737	3,137	3,490	na	na	na	na	na
Natural sciences	2,010	2,342	2,802	3,432	2,955	2,359	2,002	1,822	1,935	2,176	2,308	na	na	na	na	na
Agricultural sciences	19	9	10	9	18	12	10	21	20	24	24	na	na	na	na	na
Biological sciences	109	94	93	143	148	204	224	257	319	337	340	na	na	na	na	na
Earth, atmospheric, and ocean sciences	1	0	0	1	0	0	1	0	0	6	1	na	na	na	na	na
Atmospheric sciences	0	0	0	0	0	0	0	0	0	0	0	na	na	na	na	na
Earth sciences	1	0	0	1	0	0	1	0	0	5	1	na	na	na	na	na
Oceanography	0	0	0	0	0	0	0	0	0	1	0	na	na	na	na	na
Mathematics and computer sciences	1,736	2,158	2,613	3,174	2,599	1,968	1,559	1,290	1,323	1,527	1,659	na	na	na	na	na
Computer sciences	1,646	2,052	2,522	3,072	2,499	1,871	1,474	1,212	1,205	1,397	1,521	na	na	na	na	na
Mathematics	90	106	91	102	100	97	85	78	118	130	138	na	na	na	na	na
Physical sciences	145	81	86	105	190	175	208	254	273	282	284	na	na	na	na	na
Astronomy	0	0	0	0	1	0	0	0	0	1	0	na	na	na	na	na
Chemistry	51	29	15	35	43	45	45	80	89	97	89	na	na	na	na	na
Physics	15	9	18	17	26	21	20	16	19	17	18	na	na	na	na	na
Other physical sciences	79	43	53	53	120	109	143	158	165	167	177	na	na	na	na	na
Social and behavioral sciences	479	433	478	501	570	623	635	718	802	961	1,182	na	na	na	na	na
Psychology	51	54	51	75	76	74	79	92	113	159	227	na	na	na	na	na
Social sciences	428	379	427	426	494	549	556	626	689	802	955	na	na	na	na	na

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Anthropology	1	5	0	4	2	9	1	12	6	12	7	na	na	na	na	na
Area and ethnic studies	3	6	2	3	1	11	3	6	2	10	6	na	na	na	na	na
Economics	41	32	36	29	27	47	41	35	38	60	49	na	na	na	na	na
History of science	0	0	0	0	0	0	0	0	0	0	0	na	na	na	na	na
Linguistics	0	0	0	0	0	1	0	2	0	0	0	na	na	na	na	na
Political science and public administration	89	71	68	51	100	94	94	64	65	70	80	na	na	na	na	na
Sociology	24	12	12	18	26	31	28	46	33	54	40	na	na	na	na	na
Other social sciences	270	253	309	321	338	356	389	461	545	596	773	na	na	na	na	na
Non-S&E	24,664	25,012	26,941	27,522	28,214	29,369	31,031	32,908	33,877	35,305	37,766	na	na	na	na	na
S&E technologies	3,675	3,642	3,461	3,729	3,458	3,386	3,779	4,211	4,656	4,932	5,301	na	na	na	na	na
Engineering technologies	2,200	2,120	2,192	2,375	1,687	1,255	1,055	1,125	1,230	1,204	1,291	na	na	na	na	na
Health technologies	1,429	1,484	1,241	1,320	1,723	2,063	2,631	2,944	3,299	3,615	3,898	na	na	na	na	na
Science technologies	44	35	28	32	40	60	55	96	85	79	86	na	na	na	na	na
Other S&E technologies	2	3	0	2	8	8	38	46	42	34	26	na	na	na	na	na
Black or African American																
All fields	58,408	61,658	64,745	72,051	76,930	81,825	84,527	85,944	89,074	94,440	105,503	119,153	131,258	127,770	127,067	131,171
S&E	4,629	5,328	6,120	8,198	7,727	6,891	6,499	5,890	6,064	6,597	7,816	9,541	10,152	10,564	10,899	11,101
Engineering	131	117	134	217	289	288	215	190	227	169	165	183	236	244	308	322
Aerospace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Chemical	0	0	0	0	14	0	0	0	0	0	1	1	0	3	1	1
Civil	5	3	3	2	8	9	3	5	2	7	3	4	2	4	6	6
Electrical	27	30	32	121	161	146	97	79	96	32	16	23	17	17	44	52
Industrial	1	3	3	3	2	2	2	3	3	5	0	3	3	3	0	7
Materials	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
Mechanical	0	0	1	0	0	0	1	0	4	2	3	1	4	3	7	4
Other	98	81	94	90	104	131	112	103	121	123	142	151	210	214	250	252
Science	4,498	5,211	5,986	7,981	7,438	6,603	6,284	5,700	5,837	6,428	7,651	9,358	9,916	10,320	10,591	10,779
Natural sciences	3,497	4,263	4,990	6,899	6,272	5,384	4,956	4,367	4,507	4,667	5,221	6,017	6,208	6,529	6,564	6,632
Agricultural sciences	20	4	14	13	19	8	18	28	18	17	25	12	25	20	34	30
Biological sciences	139	131	138	145	135	142	185	207	172	183	243	272	327	363	376	431
Earth, atmospheric, and ocean sciences	0	0	1	1	0	1	4	0	2	0	1	2	0	1	2	2
Atmospheric sciences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Earth sciences	0	0	0	1	0	1	1	0	2	0	1	2	0	1	2	2
Oceanography	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	3,253	4,048	4,760	6,677	6,043	5,154	4,652	4,032	4,214	4,351	4,826	5,369	5,463	5,723	5,730	5,767
Computer sciences	3,215	3,998	4,733	6,636	6,007	5,119	4,617	3,988	4,171	4,316	4,778	5,278	5,402	5,653	5,670	5,678
Mathematics	38	50	27	41	36	35	35	44	43	35	48	91	61	70	60	89
Physical sciences	85	80	77	63	75	79	97	100	101	116	126	362	393	422	422	402

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Astronomy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemistry	17	12	9	15	15	22	16	17	15	22	15	13	17	29	18	32
Physics	2	1	1	6	5	3	5	4	7	3	11	20	9	8	10	15
Other physical sciences	66	67	67	42	55	54	76	79	79	91	100	329	367	385	394	355
Social and behavioral sciences	1,001	948	996	1,082	1,166	1,219	1,328	1,333	1,330	1,761	2,430	3,341	3,708	3,791	4,027	4,147
Psychology	136	144	141	146	158	173	198	203	214	370	730	314	416	457	587	698
Social sciences	865	804	855	936	1,008	1,046	1,130	1,130	1,116	1,391	1,700	3,027	3,292	3,334	3,440	3,449
Anthropology	3	1	1	1	0	6	3	2	0	4	3	5	6	8	7	16
Area and ethnic studies	16	7	13	24	17	23	19	15	26	25	37	22	18	27	39	31
Economics	7	5	9	9	19	14	22	23	21	22	27	18	10	18	19	12
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Political science and public administration	276	254	248	292	312	350	449	449	395	434	531	1,069	1,402	1,544	1,699	1,588
Sociology	55	66	73	77	100	76	67	67	64	90	79	108	143	176	176	236
Other social sciences	508	471	511	533	560	577	570	574	610	816	1,023	1,805	1,713	1,561	1,498	1,566
Non-S&E	53,779	56,330	58,625	63,853	69,203	74,934	78,028	80,054	83,010	87,843	97,687	109,612	121,106	117,206	116,168	120,070
S&E technologies	8,258	8,575	8,054	9,560	10,585	11,678	12,563	13,189	13,748	14,244	16,908	20,451	22,576	21,235	19,018	19,724
Engineering technologies	4,040	4,143	3,860	4,364	3,864	3,454	3,167	3,168	3,295	3,575	3,889	4,319	4,294	4,392	3,943	4,282
Health technologies	4,044	4,212	4,048	5,031	6,518	8,016	9,140	9,779	10,142	10,416	12,737	15,818	17,889	16,483	14,660	14,996

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Science technologies	147	163	119	134	136	128	151	142	160	175	217	222	247	249	266	276
Other S&E technologies	27	57	27	31	67	80	105	100	151	78	65	92	146	111	149	170
Native Hawaiian or Other Pacific Islander																
All fields	na	na	na	na	na	na	na	na	na	na	na	4,749	4,417	4,422	4,326	4,103
S&E	na	na	na	na	na	na	na	na	na	na	na	496	505	533	428	435
Engineering	na	na	na	na	na	na	na	na	na	na	na	21	23	20	21	16
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Civil	na	na	na	na	na	na	na	na	na	na	na	0	2	0	0	0
Electrical	na	na	na	na	na	na	na	na	na	na	na	2	2	2	3	3
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Materials	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Mechanical	na	na	na	na	na	na	na	na	na	na	na	0	2	0	0	1
Other	na	na	na	na	na	na	na	na	na	na	na	19	17	18	18	12
Science	na	na	na	na	na	na	na	na	na	na	na	475	482	513	407	419
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	236	254	268	251	239
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	15	23	27	25	27
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	52	25	31	29	34
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	148	194	193	177	159
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	146	189	190	174	153
Mathematics	na	na	na	na	na	na	na	na	na	na	na	2	5	3	3	6
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	21	12	17	20	18
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	1	3	0	3	3
Physics	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	4
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	20	9	17	17	11
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	239	228	245	156	180
Psychology	na	na	na	na	na	na	na	na	na	na	na	18	19	31	23	20
Social sciences	na	na	na	na	na	na	na	na	na	na	na	221	209	214	133	160
Anthropology	na	na	na	na	na	na	na	na	na	na	na	1	2	1	0	2
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	1	3	11	17	15
Economics	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	3
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	26	24	29	13	23
Sociology	na	na	na	na	na	na	na	na	na	na	na	6	10	10	11	7
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	187	170	163	90	110
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	4,253	3,912	3,889	3,898	3,668
S&E technologies	na	na	na	na	na	na	na	na	na	na	na	576	538	569	534	483
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	102	101	130	95	95
Health technologies	na	na	na	na	na	na	na	na	na	na	na	459	416	430	427	368
Science technologies	na	na	na	na	na	na	na	na	na	na	na	8	11	6	5	7
Other S&E technologies	na	na	na	na	na	na	na	na	na	na	na	7	10	3	7	13
White																
All fields	396,145	396,412	401,199	417,683	431,419	449,935	456,951	461,859	467,389	487,473	513,086	560,422	586,043	580,945	568,298	561,723
S&E	23,837	28,362	31,883	37,939	35,655	32,581	29,621	28,050	28,652	31,177	34,712	41,359	43,551	44,789	44,307	44,059
Engineering	1,177	1,278	1,265	1,387	1,569	1,488	1,354	1,316	1,453	1,384	1,621	1,797	2,068	2,266	2,507	2,862
Aerospace	1	0	0	0	0	0	1	0	0	0	2	0	2	0	0	1
Chemical	11	17	22	6	175	2	3	2	1	4	5	14	8	8	11	26
Civil	31	40	25	43	35	35	26	35	17	16	25	45	50	64	37	42
Electrical	157	159	123	288	337	287	196	180	168	115	133	94	100	106	142	161
Industrial	58	92	59	66	43	79	42	38	46	71	64	49	50	45	52	54
Materials	8	12	8	11	12	13	10	7	8	5	8	5	1	5	9	9

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mechanical	52	46	40	48	50	43	47	45	60	79	77	69	96	99	118	110
Other	859	912	988	925	917	1,029	1,029	1,009	1,153	1,094	1,307	1,521	1,761	1,939	2,138	2,459
Science	22,660	27,084	30,618	36,552	34,086	31,093	28,267	26,734	27,199	29,793	33,091	39,562	41,483	42,523	41,800	41,197
Natural sciences	18,573	22,788	26,034	32,049	29,249	25,958	23,025	21,286	21,426	22,835	24,222	27,932	29,134	29,160	28,269	27,928
Agricultural sciences	1,741	1,840	1,725	1,795	1,695	1,716	1,686	1,556	1,557	1,571	1,618	1,838	2,160	1,995	2,051	2,113
Biological sciences	937	989	1,047	1,132	1,084	1,219	1,115	1,178	1,260	1,300	1,432	1,628	1,802	1,886	2,015	2,158
Earth, atmospheric, and ocean sciences	76	73	54	48	35	39	52	59	57	82	87	80	76	87	108	112
Atmospheric sciences	0	1	0	0	2	2	7	8	5	4	16	8	9	4	6	3
Earth sciences	24	30	25	31	21	18	32	33	30	47	43	37	42	49	71	74
Oceanography	52	42	29	17	12	19	13	18	22	31	28	35	25	34	31	35
Mathematics and computer sciences	15,020	19,133	22,317	28,386	25,519	22,032	19,213	17,415	17,537	18,801	19,880	23,039	23,588	23,468	22,263	21,615
Computer sciences	14,638	18,772	21,933	28,012	25,081	21,621	18,835	16,990	17,136	18,339	19,413	22,348	22,923	22,697	21,420	20,509
Mathematics	382	361	384	374	438	411	378	425	401	462	467	691	665	771	843	1,106
Physical sciences	799	753	891	688	916	952	959	1,078	1,015	1,081	1,205	1,347	1,508	1,724	1,832	1,930
Astronomy	0	1	2	0	0	2	4	1	1	2	0	1	4	1	4	2
Chemistry	144	98	133	128	153	158	158	156	184	170	183	200	187	245	260	328
Physics	65	72	77	80	89	92	66	86	67	90	100	112	125	146	189	271
Other physical sciences	590	582	679	480	674	700	731	835	763	819	922	1,034	1,192	1,332	1,379	1,329
Social and behavioral sciences	4,087	4,296	4,584	4,503	4,837	5,135	5,242	5,448	5,773	6,958	8,869	11,630	12,349	13,363	13,531	13,269

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Psychology	959	1,012	1,121	1,121	1,152	1,130	1,148	1,268	1,355	2,165	3,493	2,003	2,162	2,681	3,119	3,236
Social sciences	3,128	3,284	3,463	3,382	3,685	4,005	4,094	4,180	4,418	4,793	5,376	9,627	10,187	10,682	10,412	10,033
Anthropology	32	51	63	44	62	75	79	64	96	85	117	130	180	166	201	226
Area and ethnic studies	59	209	211	16	15	17	16	26	23	14	31	40	28	46	63	89
Economics	81	92	88	85	102	116	142	124	146	131	140	143	151	190	157	222
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	1	0	0	1	0	2	0	1	0	8	3
Political science and public administration	371	353	338	497	650	761	812	813	862	836	881	2,041	2,357	3,144	3,295	3,133
Sociology	203	187	210	219	235	201	202	196	217	240	253	332	355	542	571	675
Other social sciences	2,382	2,392	2,553	2,521	2,621	2,834	2,843	2,957	3,073	3,487	3,952	6,941	7,115	6,594	6,117	5,685
Non-S&E	372,308	368,050	369,316	379,744	395,764	417,354	427,330	433,809	438,737	456,296	478,374	519,063	542,492	536,156	523,991	517,664
S&E technologies	59,987	56,812	52,956	55,621	58,958	62,313	64,337	66,943	69,002	71,362	77,730	90,822	96,799	92,913	87,297	84,261
Engineering technologies	27,820	26,801	25,386	25,909	24,352	22,157	20,433	20,659	21,323	22,249	22,511	24,791	24,366	23,623	21,869	21,591
Health technologies	31,311	29,155	26,810	28,905	33,666	39,102	42,702	44,838	46,215	47,679	53,579	64,190	70,394	67,199	63,276	60,426
Science technologies	833	814	728	766	780	858	829	938	933	960	1,175	1,288	1,405	1,435	1,497	1,492
Other S&E technologies	23	42	32	41	160	196	373	508	531	474	465	553	634	656	655	752
Two or more races[c]																
All fields	na	na	na	na	na	na	na	na	na	na	na	10,487	13,734	18,278	21,431	24,290
S&E	na	na	na	na	na	na	na	na	na	na	na	726	1,110	1,800	2,154	2,549

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Engineering	na	na	na	na	na	na	na	na	na	na	na	25	26	58	90	101
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	1	0	0	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	4
Civil	na	na	na	na	na	na	na	na	na	na	na	1	1	2	2	0
Electrical	na	na	na	na	na	na	na	na	na	na	na	0	0	4	3	8
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	2
Materials	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Mechanical	na	na	na	na	na	na	na	na	na	na	na	4	6	6	5	3
Other	na	na	na	na	na	na	na	na	na	na	na	20	18	46	78	84
Science	na	na	na	na	na	na	na	na	na	na	na	701	1,084	1,742	2,064	2,448
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	421	590	916	1,061	1,256
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	21	26	34	40	48
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	34	55	91	94	129
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	2	0	2	2	3
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	2	0	2	1	1
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	2
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	321	442	677	790	904
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	300	422	628	738	810

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mathematics	na	na	na	na	na	na	na	na	na	na	na	21	20	49	52	94
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	43	67	112	135	172
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	4	10	18	22	29
Physics	na	na	na	na	na	na	na	na	na	na	na	1	5	10	14	31
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	38	52	84	99	112
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	280	494	826	1,003	1,192
Psychology	na	na	na	na	na	na	na	na	na	na	na	53	85	169	226	333
Social sciences	na	na	na	na	na	na	na	na	na	na	na	227	409	657	777	859
Anthropology	na	na	na	na	na	na	na	na	na	na	na	5	10	16	25	16
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	3	4	14	24	43
Economics	na	na	na	na	na	na	na	na	na	na	na	4	4	13	6	10
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	37	63	122	145	176
Sociology	na	na	na	na	na	na	na	na	na	na	na	15	24	39	77	96
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	163	304	453	499	518
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	9,761	12,624	16,478	19,277	21,741
S&E technologies	na	na	na	na	na	na	na	na	na	na	na	1,412	1,927	2,479	2,617	2,791

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	329	384	643	698	712
Health technologies	na	na	na	na	na	na	na	na	na	na	na	1,053	1,493	1,752	1,783	1,980
Science technologies	na	na	na	na	na	na	na	na	na	na	na	17	30	64	78	63
Other S&E technologies	na	na	na	na	na	na	na	na	na	na	na	13	20	20	58	36
Other or unknown race or ethnicity																
All fields	17,261	20,263	23,097	28,526	35,192	36,799	40,987	43,360	49,781	52,901	60,515	67,385	73,109	57,882	53,992	48,088
S&E	1,501	1,764	2,109	3,173	3,814	3,343	3,055	2,966	3,373	4,048	5,356	7,530	9,835	5,668	4,927	4,180
Engineering	60	60	64	88	99	101	132	120	115	104	143	134	191	194	183	219
Aerospace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Chemical	0	0	0	0	7	0	0	0	0	1	1	2	0	0	0	5
Civil	8	3	4	2	3	3	3	2	3	0	1	1	3	4	1	2
Electrical	7	5	5	23	31	25	53	20	14	8	13	13	23	6	18	11
Industrial	0	0	5	1	0	0	1	1	2	1	1	12	3	9	2	6
Materials	3	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Mechanical	1	1	0	0	2	4	0	1	7	2	4	6	10	11	7	18
Other	41	49	50	62	56	69	75	96	89	92	122	100	152	164	155	175
Science	1,441	1,704	2,045	3,085	3,715	3,242	2,923	2,846	3,258	3,944	5,213	7,396	9,644	5,474	4,744	3,961
Natural sciences	1,050	1,378	1,704	2,716	3,243	2,777	2,396	2,217	2,576	2,684	3,172	4,531	6,272	3,244	2,963	2,449
Agricultural sciences	22	45	59	52	72	46	48	62	40	79	84	96	99	94	77	88

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Biological sciences	47	32	37	72	74	83	96	114	109	164	182	262	219	205	214	158
Earth, atmospheric, and ocean sciences	3	2	1	0	2	0	5	2	3	4	0	2	4	3	4	5
Atmospheric sciences	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Earth sciences	1	1	1	0	1	0	3	2	3	2	0	1	4	1	4	5
Oceanography	2	1	0	0	1	0	2	0	0	2	0	0	0	2	0	0
Mathematics and computer sciences	910	1,239	1,530	2,529	2,973	2,557	2,152	1,866	2,292	2,279	2,748	3,955	5,750	2,710	2,465	2,001
Computer sciences	882	1,214	1,494	2,494	2,934	2,520	2,116	1,800	2,227	2,227	2,662	3,777	5,675	2,634	2,387	1,918
Mathematics	28	25	36	35	39	37	36	66	65	52	86	178	75	76	78	83
Physical sciences	68	60	77	63	122	91	95	173	132	158	158	216	200	232	203	197
Astronomy	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0
Chemistry	14	4	11	16	16	9	14	25	24	47	34	32	31	38	35	29
Physics	5	10	8	10	14	6	9	15	10	17	21	20	20	18	22	21
Other physical sciences	49	46	58	37	92	76	72	132	98	94	103	164	149	175	145	147
Social and behavioral sciences	391	326	341	369	472	465	527	629	682	1,260	2,041	2,865	3,372	2,230	1,781	1,512
Psychology	55	62	63	71	83	87	90	109	141	454	1,014	223	287	339	263	269
Social sciences	336	264	278	298	389	378	437	520	541	806	1,027	2,642	3,085	1,891	1,518	1,243
Anthropology	4	8	5	10	12	13	14	17	18	20	28	18	21	15	18	14
Area and ethnic studies	107	26	28	0	8	3	2	6	6	6	8	9	8	10	7	10
Economics	11	9	10	16	23	23	22	20	19	28	35	24	22	22	20	12

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	0	1	1	0	0	0	0	0	0	4	0
Political science and public administration	15	21	32	37	59	73	72	106	78	124	146	659	1,068	604	489	425
Sociology	16	13	19	21	41	33	30	24	38	37	64	54	54	59	72	59
Other social sciences	183	187	184	214	246	233	296	346	382	591	746	1,878	1,912	1,181	908	723
Non-S&E	15,760	18,499	20,988	25,353	31,378	33,456	37,932	40,394	46,408	48,853	55,159	59,855	63,274	52,214	49,065	43,908
S&E technologies	1,869	2,124	2,648	3,227	3,963	3,625	4,312	4,543	4,757	5,727	7,760	11,631	14,509	10,356	10,713	7,785
Engineering technologies	982	971	1,506	1,952	2,035	1,283	1,193	1,093	1,311	1,639	1,759	2,499	4,677	2,072	1,879	1,668
Health technologies	876	1,137	1,123	1,249	1,872	2,277	3,053	3,359	3,337	3,981	5,891	9,018	9,734	8,167	8,720	6,001
Science technologies	11	16	19	26	31	34	25	47	66	60	74	75	72	73	75	85
Other S&E technologies	0	0	0	0	25	31	41	44	43	47	36	39	26	44	39	31
Temporary visa holder																
All fields	10,116	11,602	12,294	13,486	14,568	14,121	13,432	13,827	14,445	15,224	16,160	16,632	17,131	16,872	17,113	17,984
S&E	849	1,155	1,416	1,615	1,621	1,352	1,099	895	954	1,156	1,300	1,521	1,602	1,587	1,715	1,936
Engineering	68	97	57	81	118	122	87	93	89	149	151	184	240	174	196	228
Aerospace	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
Chemical	2	1	2	0	3	0	2	1	0	4	2	9	1	3	3	7
Civil	4	0	2	6	1	0	4	1	3	7	6	6	9	11	5	1
Electrical	3	38	1	4	14	9	2	7	6	15	8	10	11	9	14	12

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Industrial	1	2	2	1	0	3	2	3	0	0	0	0	0	0	0	1
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mechanical	1	0	1	1	1	2	0	1	5	3	17	12	15	9	28	24
Other	57	56	49	69	99	108	76	80	75	120	118	147	204	141	146	183
Science	781	1,058	1,359	1,534	1,503	1,230	1,012	802	865	1,007	1,149	1,337	1,362	1,413	1,519	1,708
Natural sciences	630	877	1,188	1,339	1,274	1,019	831	626	672	775	846	986	973	969	1,081	1,203
Agricultural sciences	23	46	52	11	43	15	42	8	16	12	13	10	13	16	22	92
Biological sciences	27	35	30	49	57	58	64	61	83	72	108	92	93	114	112	92
Earth, atmospheric, and ocean sciences	1	4	1	0	2	0	2	4	3	0	3	2	2	3	1	1
Atmospheric sciences	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
Earth sciences	1	4	1	0	2	0	2	3	3	0	3	1	2	3	1	1
Oceanography	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	524	759	1,061	1,221	1,086	829	596	448	438	525	556	624	578	582	640	642
Computer sciences	491	717	1,025	1,175	1,039	769	542	419	393	483	495	549	492	513	545	547
Mathematics	33	42	36	46	47	60	54	29	45	42	61	75	86	69	95	95
Physical sciences	55	33	44	58	86	117	127	105	132	166	166	258	287	254	306	376
Astronomy	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Chemistry	32	9	5	13	13	19	19	18	10	23	21	28	33	19	21	25
Physics	8	3	5	16	9	11	12	4	14	10	6	9	11	8	21	23

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Other physical sciences	15	21	34	29	64	87	96	83	107	133	139	221	243	227	264	327
Social and behavioral sciences	151	181	171	195	229	211	181	176	193	232	303	351	389	444	438	505
Psychology	22	25	36	43	44	38	22	21	30	52	81	56	37	62	80	115
Social sciences	129	156	135	152	185	173	159	155	163	180	222	295	352	382	358	390
Anthropology	3	2	1	0	2	1	3	4	3	1	4	3	2	2	0	7
Area and ethnic studies	16	21	15	6	3	2	4	0	2	6	12	11	4	5	10	4
Economics	18	27	20	31	38	32	29	19	32	35	49	45	58	53	52	65
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	4	0	0	0	0	1	0	0	1	3	0
Political science and public administration	12	14	11	10	23	13	26	21	23	19	20	34	46	66	53	57
Sociology	4	10	6	6	21	19	15	19	18	7	9	12	16	18	13	18
Other social sciences	76	82	82	99	98	102	82	92	85	112	127	190	226	237	227	239
Non-S&E	9,267	10,447	10,878	11,871	12,947	12,769	12,333	12,932	13,491	14,068	14,860	15,111	15,529	15,285	15,398	16,048
S&E technologies	561	1,115	705	804	898	873	807	784	928	875	1,030	959	1,022	1,044	956	885
Engineering technologies	337	838	442	460	507	357	319	297	328	277	343	288	264	318	311	312
Health technologies	216	257	252	331	370	496	467	458	571	571	644	636	714	677	602	537
Science technologies	8	20	11	13	21	20	21	29	29	27	43	35	44	49	43	36
Other S&E technologies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

na = not applicable; data were not collected for this detail.

[a] Beginning in 2008, the category includes Hispanic or one or more races.

[b] Pacific Islander includes Native Hawaiian or Other Pacific Islander.

[c] In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race for the years after 2011 is likely to be an undercount.

Note(s)

Racial and ethnic breakouts include U.S. citizens and permanent residents only; temporary visa holder includes all racial and ethnic groups. Engineering technologies are focused more on applied skills than on fundamental science and mathematics. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data from *Science and Engineering Indicators 2008* and earlier years that were based on accredited higher education institutions.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-20

Degrees awarded to U.S. citizens and permanent residents, by sex, race, ethnicity, broad field category, and degree level: 2000 and 2015

(Number and percent)

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
Associate's level										
American Indian or Alaska Native										
All fields	6,282	4,131	2,151	65.8	34.2	9,517	6,109	3,408	64.2	35.8
S&E	608	386	222	63.5	36.5	1,077	591	486	54.9	45.1
Engineering	17	4	13	23.5	76.5	36	8	28	22.2	77.8
Natural sciences	384	220	164	57.3	42.7	537	216	321	40.2	59.8
Social and behavioral sciences	207	162	45	78.3	21.7	504	367	137	72.8	27.2
Non-S&E	5,674	3,745	1,929	66.0	34.0	8,440	5,518	2,922	65.4	34.6
Black or African American										
All fields	58,408	38,148	20,260	65.3	34.7	131,171	86,252	44,919	65.8	34.2
S&E	4,629	2,622	2,007	56.6	43.4	11,101	5,233	5,868	47.1	52.9
Engineering	131	25	106	19.1	80.9	322	33	289	10.2	89.8
Natural sciences	3,497	1,883	1,614	53.8	46.2	6,632	2,076	4,556	31.3	68.7
Social and behavioral sciences	1,001	714	287	71.3	28.7	4,147	3,124	1,023	75.3	24.7
Non-S&E	53,779	35,526	18,253	66.1	33.9	120,070	81,019	39,051	67.5	32.5

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
Hispanic or Latino										
All fields	57,971	33,760	24,211	58.2	41.8	181,156	111,966	69,190	61.8	38.2
S&E	4,361	2,280	2,081	52.3	47.7	19,046	10,088	8,958	53.0	47.0
Engineering	181	30	151	16.6	83.4	815	132	683	16.2	83.8
Natural sciences	2,986	1,396	1,590	46.8	53.2	8,078	2,583	5,495	32.0	68.0
Social and behavioral sciences	1,194	854	340	71.5	28.5	10,153	7,373	2,780	72.6	27.4
Non-S&E	53,610	31,480	22,130	58.7	41.3	162,110	101,878	60,232	62.8	37.2
White										
All fields	396,145	237,369	158,776	59.9	40.1	561,723	337,452	224,271	60.1	39.9
S&E	23,837	10,680	13,157	44.8	55.2	44,059	17,310	26,749	39.3	60.7
Engineering	1,177	148	1,029	12.6	87.4	2,862	341	2,521	11.9	88.1
Natural sciences	18,573	7,644	10,929	41.2	58.8	27,928	7,262	20,666	26.0	74.0
Social and behavioral sciences	4,087	2,888	1,199	70.7	29.3	13,269	9,707	3,562	73.2	26.8
Non-S&E	372,308	226,689	145,619	60.9	39.1	517,664	320,142	197,522	61.8	38.2
Asian or Pacific Islander										
All fields	27,313	15,522	11,791	56.8	43.2	50,258	28,621	21,637	56.9	43.1
S&E	2,649	1,284	1,365	48.5	51.5	6,641	2,919	3,722	44.0	56.0
Engineering	160	23	137	14.4	85.6	421	86	335	20.4	79.6

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
Natural sciences	2,010	939	1,071	46.7	53.3	3,846	1,290	2,556	33.5	66.5
Social and behavioral sciences	479	322	157	67.2	32.8	2,374	1,543	831	65.0	35.0
Non-S&E	24,664	14,238	10,426	57.7	42.3	43,617	25,702	17,915	58.9	41.1
Other or unknown race and ethnicity										
All fields	17,261	9,804	7,451	56.8	43.2	72,378	43,156	29,222	59.6	40.4
S&E	1,501	654	847	43.6	56.4	6,729	3,120	3,609	46.4	53.6
Engineering	60	8	52	13.3	86.7	320	49	271	15.3	84.7
Natural sciences	1050	376	674	35.8	64.2	3705	1050	2655	28.3	71.7
Social and behavioral sciences	391	270	121	69.1	30.9	2704	2021	683	74.7	25.3
Non-S&E	15760	9150	6610	58.1	41.9	65,649	40,036	25,613	61.0	39.0
Bachelor's level										
American Indian or Alaska Native										
All fields	8,414	5,077	3,337	60.3	39.7	9,697	5,841	3,856	60.2	39.8
S&E	2,607	1,443	1,164	55.4	44.6	2,972	1,620	1,352	54.5	45.5
Engineering	326	89	237	27.3	72.7	316	76	240	24.1	75.9
Natural sciences	917	462	455	50.4	49.6	1,111	512	599	46.1	53.9
Social and behavioral sciences	1,364	892	472	65.4	34.6	1,545	1,032	513	66.8	33.2
Non-S&E	5,807	3,634	2,173	62.6	37.4	6,725	4,221	2,504	62.8	37.2

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
Black or African American										
All fields	104,341	68,679	35,662	65.8	34.2	182,778	117,189	65,589	64.1	35.9
S&E	32,993	20,975	12,018	63.6	36.4	53,649	32,845	20,804	61.2	38.8
Engineering	3,069	1,090	1,979	35.5	64.5	3,852	973	2,879	25.3	74.7
Natural sciences	10,796	6,464	4,332	59.9	40.1	17,286	8,920	8,366	51.6	48.4
Social and behavioral sciences	19,128	13,421	5,707	70.2	29.8	32,511	22,952	9,559	70.6	29.4
Non-S&E	71,348	47,704	23,644	66.9	33.1	129,129	84,344	44,785	65.3	34.7
Hispanic or Latino										
All fields	88,445	53,772	34,673	60.8	39.2	226,900	137,260	89,640	60.5	39.5
S&E	27,980	15,456	12,524	55.2	44.8	79,203	44,386	34,817	56.0	44.0
Engineering	4,075	988	3,087	24.2	75.8	9,960	2,209	7,751	22.2	77.8
Natural sciences	8,842	4,499	4,343	50.9	49.1	25,845	12,528	13,317	48.5	51.5
Social and behavioral sciences	15,063	9,969	5,094	66.2	33.8	43,398	29,649	13,749	68.3	31.7
Non-S&E	60,465	38,316	22,149	63.4	36.6	147,697	92,874	54,823	62.9	37.1
White										
All fields	896,511	508,407	388,104	56.7	43.3	1,150,065	646,445	503,620	56.2	43.8
S&E	270,341	133,114	137,227	49.2	50.8	373,795	176,865	196,930	47.3	52.7
Engineering	39,025	7,274	31,751	18.6	81.4	60,596	11,206	49,390	18.5	81.5

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
Natural sciences	103,331	46,570	56,761	45.1	54.9	153,497	67,674	85,823	44.1	55.9
Social and behavioral sciences	127,985	79,270	48,715	61.9	38.1	159,702	97,985	61,717	61.4	38.6
Non-S&E	626,170	375,293	250,877	59.9	40.1	776,270	469,580	306,690	60.5	39.5
Asian or Pacific Islander										
All fields	75,384	40,766	34,618	54.1	45.9	127,809	69,573	58,236	54.4	45.6
S&E	35,556	16,982	18,574	47.8	52.2	60,703	29,098	31,605	47.9	52.1
Engineering	6,850	1,664	5,186	24.3	75.7	10,875	2,583	8,292	23.8	76.2
Natural sciences	16,342	7,647	8,695	46.8	53.2	29,885	14,199	15,686	47.5	52.5
Social and behavioral sciences	12,364	7,671	4,693	62.0	38.0	19,943	12,316	7,627	61.8	38.2
Non-S&E	39,828	23,784	16,044	59.7	40.3	67,106	40,475	26,631	60.3	39.7
Other or unknown race and ethnicity										
All fields	42,419	23,529	18,890	55.5	44.5	143,241	82,437	60,804	57.6	42.4
S&E	13,930	6,948	6,982	49.9	50.1	47,096	24,409	22,687	51.8	48.2
Engineering	1,610	296	1,314	18.4	81.6	5,752	1,241	4,511	21.6	78.4
Natural sciences	5,143	2,228	2,915	43.3	56.7	18,455	8,250	10,205	44.7	55.3
Social and behavioral sciences	7,177	4,424	2,753	61.6	38.4	22,889	14,918	7,971	65.2	34.8
Non-S&E	28,489	16,581	11,908	58.2	41.8	96,145	58,028	38,117	60.4	39.6
Master's level										

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
American Indian or Alaska Native										
All fields	2,109	1,329	780	63.0	37.0	3,116	2,006	1,110	64.4	35.6
S&E	383	190	193	49.6	50.4	548	311	237	56.8	43.2
Engineering	64	16	48	25.0	75.0	59	18	41	30.5	69.5
Natural sciences	108	36	72	33.3	66.7	158	71	87	44.9	55.1
Social and behavioral sciences	211	138	73	65.4	34.6	331	222	109	67.1	32.9
Non-S&E	1,726	1,139	587	66.0	34.0	2,568	1,695	873	66.0	34.0
Black or African American										
All fields	33,589	23,173	10,416	69.0	31.0	79,680	55,842	23,838	70.1	29.9
S&E	5,563	3,320	2,243	59.7	40.3	13,239	8,415	4,824	63.6	36.4
Engineering	658	207	451	31.5	68.5	1,323	370	953	28.0	72.0
Natural sciences	1,179	588	591	49.9	50.1	3,337	1,538	1,799	46.1	53.9
Social and behavioral sciences	3,726	2,525	1,201	67.8	32.2	8,579	6,507	2,072	75.8	24.2
Non-S&E	28,026	19,853	8,173	70.8	29.2	66,441	47,427	19,014	71.4	28.6
Hispanic or Latino										
All fields	20,911	12,861	8,050	61.5	38.5	58,619	37,676	20,943	64.3	35.7
S&E	3,762	1,841	1,921	48.9	51.1	11,392	6,008	5,384	52.7	47.3
Engineering	852	201	651	23.6	76.4	2,290	555	1,735	24.2	75.8

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
Natural sciences	935	403	532	43.1	56.9	2,920	1,238	1,682	42.4	57.6
Social and behavioral sciences	1,975	1,237	738	62.6	37.4	6,182	4,215	1,967	68.2	31.8
Non-S&E	17,149	11,020	6,129	64.3	35.7	47,227	31,668	15,559	67.1	32.9
White										
All fields	299,781	180,919	118,862	60.4	39.6	396,460	243,757	152,703	61.5	38.5
S&E	50,130	22,868	27,262	45.6	54.4	72,869	34,368	38,501	47.2	52.8
Engineering	11,020	2,037	8,983	18.5	81.5	15,263	3,275	11,988	21.5	78.5
Natural sciences	16,154	6,613	9,541	40.9	59.1	24,781	10,267	14,514	41.4	58.6
Social and behavioral sciences	22,956	14,218	8,738	61.9	38.1	32,825	20,826	11,999	63.4	36.6
Non-S&E	249,651	158,051	91,600	63.3	36.7	323,591	209,389	114,202	64.7	35.3
Asian or Pacific Islander										
All fields	21,720	11,461	10,259	52.8	47.2	40,707	22,902	17,805	56.3	43.7
S&E	7,032	3,063	3,969	43.6	56.4	11,245	4,968	6,277	44.2	55.8
Engineering	2,380	661	1,719	27.8	72.2	3,504	1,031	2,473	29.4	70.6
Natural sciences	3,199	1,440	1,759	45.0	55.0	5,019	2,183	2,836	43.5	56.5
Social and behavioral sciences	1,453	962	491	66.2	33.8	2,722	1,754	968	64.4	35.6
Non-S&E	14,688	8,398	6,290	57.2	42.8	29,462	17,934	11,528	60.9	39.1
Other or unknown race and ethnicity										

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
All fields	26,048	14,612	11,436	56.1	43.9	68,250	40,910	27,340	59.9	40.1
S&E	4,545	2,065	2,480	45.4	54.6	12,938	6,661	6,277	51.5	48.5
Engineering	940	192	748	20.4	79.6	2,308	536	1,772	23.2	76.8
Natural sciences	1,415	536	879	37.9	62.1	4,172	1,750	2,422	41.9	58.1
Social and behavioral sciences	2,190	1,337	853	61.1	38.9	6,458	4,375	2,083	67.7	32.3
Non-S&E	21,503	12,547	8,956	58.3	41.7	55,312	34,249	21,063	61.9	38.1
Doctoral level[a]										
American Indian or Alaska Native										
All fields	155	100	55	64.5	35.5	264	158	106	59.8	40.2
S&E	82	52	30	63.4	36.6	137	84	53	61.3	38.7
Engineering	5	2	3	40.0	60.0	12	4	8	33.3	66.7
Natural sciences	34	16	18	47.1	52.9	71	40	31	56.3	43.7
Social and behavioral sciences	43	34	9	79.1	20.9	54	40	14	74.1	25.9
Non-S&E	73	48	25	65.8	34.2	127	74	53	58.3	41.7
Black or African American										
All fields	2,147	1,314	833	61.2	38.8	5,050	3,472	1,578	68.8	31.2
S&E	821	462	359	56.3	43.7	1,855	1,237	618	66.7	33.3
Engineering	91	29	62	31.9	68.1	165	55	110	33.3	66.7

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
Natural sciences	316	180	136	57.0	43.0	933	633	300	67.8	32.2
Social and behavioral sciences	414	253	161	61.1	38.9	757	549	208	72.5	27.5
Non-S&E	1,326	852	474	64.3	35.7	3,195	2,235	960	70.0	30.0
Hispanic or Latino										
All fields	1,382	767	615	55.5	44.5	3,554	2,037	1,517	57.3	42.7
S&E	775	402	373	51.9	48.1	2,019	1,110	909	55.0	45.0
Engineering	86	16	70	18.6	81.4	286	72	214	25.2	74.8
Natural sciences	319	150	169	47.0	53.0	1,014	546	468	53.8	46.2
Social and behavioral sciences	370	236	134	63.8	36.2	719	492	227	68.4	31.6
Non-S&E	607	365	242	60.1	39.9	1,535	927	608	60.4	39.6
White										
All fields	26,471	12,770	13,701	48.2	51.8	33,218	17,453	15,765	52.5	47.5
S&E	14,975	6,647	8,328	44.4	55.6	19,714	9,719	9,995	49.3	50.7
Engineering	1,948	340	1,608	17.5	82.5	3,023	707	2,316	23.4	76.6
Natural sciences	7,621	3,138	4,483	41.2	58.8	11,501	5,799	5,702	50.4	49.6
Social and behavioral sciences	5,406	3,169	2,237	58.6	41.4	5,190	3,213	1,977	61.9	38.1
Non-S&E	11,496	6,123	5,373	53.3	46.7	13,504	7,734	5,770	57.3	42.7
Asian or Pacific Islander										

Degree level and broad field category	2000					2015				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
All fields	2,297	1,013	1,284	44.1	55.9	3,740	2,072	1,668	55.4	44.6
S&E	1,714	704	1,010	41.1	58.9	2,703	1,415	1,288	52.3	47.7
Engineering	380	81	299	21.3	78.7	665	205	460	30.8	69.2
Natural sciences	979	412	567	42.1	57.9	1,546	872	674	56.4	43.6
Social and behavioral sciences	355	211	144	59.4	40.6	492	338	154	68.7	31.3
Non-S&E	583	309	274	53.0	47.0	1,037	657	380	63.4	36.6
Other or unknown race and ethnicity										
All fields	1,661	741	920	44.6	55.4	5,033	2,713	2,320	53.9	46.1
S&E	1,034	422	612	40.8	59.2	2,910	1,453	1,457	49.9	50.1
Engineering	146	28	118	19.2	80.8	469	121	348	25.8	74.2
Natural sciences	510	190	320	37.3	62.7	1,514	743	771	49.1	50.9
Social and behavioral sciences	378	204	174	54.0	46.0	927	589	338	63.5	36.5
Non-S&E	627	319	308	50.9	49.1	2,123	1,260	863	59.3	40.7

[a] At the doctoral level, medical sciences and other health sciences are included under natural sciences and consequently under S&E because at this level, these degrees are research degrees.

Note(s)

To compare data over time, the race and ethnicity categories are the historic categories, not the most recent.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-21

Earned bachelor's degrees, by sex and field: 2000–15

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Both sexes																
All fields	1,254,618	1,260,308	1,308,970	1,365,694	1,417,421	1,456,401	1,502,922	1,541,704	1,580,413	1,619,028	1,668,227	1,734,229	1,810,647	1,861,034	1,890,941	1,916,129
S&E	398,602	400,435	415,983	442,755	458,658	470,214	478,858	485,772	496,168	505,435	525,374	554,365	589,330	615,475	635,915	650,057
Engineering	59,487	59,214	60,605	63,789	64,680	66,152	68,227	68,274	69,908	70,600	74,399	78,099	83,263	87,812	93,950	99,906
Aerospace	1,267	1,498	1,747	2,017	2,318	2,384	2,753	2,828	2,934	3,037	3,207	3,342	3,545	3,490	3,565	3,871
Chemical	6,219	6,088	5,946	5,545	5,185	4,889	4,857	5,081	5,504	5,894	6,692	7,535	8,344	8,917	9,706	10,837
Civil	9,571	8,949	8,891	9,367	9,400	9,800	10,663	11,318	12,243	12,787	13,482	14,840	15,175	15,882	15,551	15,374
Electrical	17,675	18,359	18,957	20,757	21,374	21,459	19,933	18,547	17,357	16,184	16,290	16,485	17,380	18,412	19,991	21,357
Industrial	3,937	3,812	3,977	3,937	3,808	3,936	3,890	3,529	3,566	3,879	4,184	4,293	4,689	4,779	5,323	5,813
Materials	972	930	933	950	865	906	1,006	1,025	1,150	1,070	1,138	1,140	1,322	1,448	1,513	1,687
Mechanical	13,091	13,139	13,353	14,029	14,342	14,880	16,163	16,911	17,685	17,643	18,858	19,470	20,889	22,300	24,679	26,742
Other	6,755	6,439	6,801	7,187	7,388	7,898	8,962	9,035	9,469	10,106	10,548	10,994	11,919	12,584	13,622	14,225
Science	339,115	341,221	355,378	378,966	393,978	404,062	410,631	417,498	426,260	434,835	450,975	476,266	506,067	527,663	541,965	550,151
Natural sciences	150,962	152,623	158,975	170,068	173,633	173,460	173,966	176,275	177,601	181,914	190,158	202,517	219,025	233,032	245,624	257,665
Agricultural sciences	18,245	17,465	17,359	17,703	17,058	17,120	17,307	17,696	18,474	19,152	20,400	22,759	25,060	27,609	28,796	29,460
Biological sciences	64,887	62,010	61,675	63,517	64,750	67,972	72,972	79,348	82,398	85,574	89,615	93,654	99,900	104,703	109,520	115,124

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth, atmospheric, and ocean sciences	4,019	3,968	3,984	3,949	3,903	3,959	3,987	4,077	4,314	4,542	4,802	5,299	5,865	6,291	6,730	7,155
Atmospheric sciences	490	456	525	562	572	677	651	745	736	721	691	678	735	749	751	734
Earth sciences	3,359	3,334	3,234	3,252	3,170	3,146	3,231	3,193	3,453	3,679	3,931	4,410	4,904	5,302	5,724	6,162
Oceanography	170	178	225	135	161	136	105	139	125	142	180	211	226	240	255	259
Mathematics and computer sciences	49,233	55,034	61,960	70,789	73,703	69,404	63,310	58,147	54,763	54,704	56,939	61,607	67,779	73,153	78,356	83,445
Computer sciences	37,519	43,597	49,706	57,926	59,968	54,588	48,000	42,596	38,922	38,496	40,107	43,586	47,960	51,586	56,130	60,309
Mathematics and statistics	11,714	11,437	12,254	12,863	13,735	14,816	15,310	15,551	15,841	16,208	16,832	18,021	19,819	21,567	22,226	23,136
Physical sciences	14,578	14,146	13,997	14,110	14,219	15,005	16,390	17,007	17,652	17,942	18,402	19,198	20,421	21,276	22,222	22,481
Astronomy	160	240	276	271	292	331	366	332	346	335	388	364	392	357	429	393
Chemistry	10,388	9,815	9,439	9,329	9,300	9,923	10,887	11,250	11,832	12,144	12,338	12,888	13,714	14,024	14,682	14,669
Physics	3,362	3,447	3,641	3,913	4,140	4,199	4,566	4,870	4,876	4,842	5,000	5,221	5,557	6,107	6,283	6,681
Other physical sciences	668	644	641	597	487	552	571	555	598	621	676	725	758	788	828	738
Social and behavioral sciences	188,153	188,598	196,403	208,898	220,345	230,602	236,665	241,223	248,659	252,921	260,817	273,749	287,042	294,631	296,341	292,486
Psychology	74,656	74,124	77,297	79,163	82,606	86,031	88,551	90,498	92,989	94,743	97,746	101,568	109,716	115,373	118,405	118,768
Social sciences	113,497	114,474	119,106	129,735	137,739	144,571	148,114	150,725	155,670	158,178	163,071	172,181	177,326	179,258	177,936	173,718
Anthropology	7,057	6,898	7,198	7,543	7,631	7,742	8,100	8,086	8,853	9,153	9,566	10,022	11,128	11,536	11,302	10,165
Area and ethnic studies	5,614	5,557	5,835	5,745	6,244	6,612	6,975	7,120	7,323	7,598	7,364	7,817	7,860	7,585	7,104	6,620
Economics	19,400	20,371	21,823	23,866	24,927	25,160	24,707	24,825	26,281	27,628	29,090	30,013	29,457	30,034	31,585	34,344

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
History of science	92	101	103	103	140	117	113	114	103	100	110	138	122	119	133	131
Linguistics	716	757	847	914	1,047	1,053	1,201	1,340	1,505	1,478	1,682	1,808	2,109	2,184	2,225	2,275
Political science and public administration	36,384	36,650	38,565	43,796	47,509	51,540	53,589	54,598	55,889	55,319	57,649	59,752	60,760	60,244	59,260	56,814
Sociology	25,685	25,357	25,296	26,200	27,020	28,556	28,541	29,050	28,908	28,836	29,000	29,614	30,602	31,029	30,672	29,543
Other social sciences	18,549	18,783	19,439	21,568	23,221	23,791	24,888	25,592	26,808	28,066	28,610	33,017	35,288	36,527	35,655	33,826
Non-S&E	856,016	859,873	892,987	922,939	958,763	986,187	1,024,064	1,055,932	1,084,245	1,113,593	1,142,853	1,179,864	1,221,317	1,245,559	1,255,026	1,266,072
Engineering technologies	15,410	15,366	15,637	15,591	15,341	15,649	15,327	15,894	16,164	16,454	16,843	17,790	18,231	18,322	17,915	18,253
Male																
All fields	536,059	537,421	555,640	578,937	601,588	618,758	636,559	655,393	673,788	691,428	713,336	740,357	772,175	794,852	809,453	820,426
S&E	197,650	197,771	204,675	219,815	227,861	233,924	238,029	241,697	246,719	250,742	261,091	275,258	291,791	305,777	318,015	327,122
Engineering	47,281	47,302	47,923	50,809	51,417	52,949	54,889	55,621	56,987	57,850	60,706	63,441	67,282	70,878	75,324	79,849
Aerospace	1,029	1,194	1,435	1,633	1,905	1,980	2,252	2,376	2,493	2,600	2,744	2,903	3,082	3,011	3,077	3,356
Chemical	4,016	4,033	3,823	3,532	3,352	3,113	3,179	3,338	3,670	3,977	4,543	5,228	5,809	6,260	6,729	7,651
Civil	7,246	6,908	6,667	7,118	7,121	7,451	8,241	8,819	9,491	10,032	10,589	11,562	11,747	12,226	11,850	11,595
Electrical	15,325	15,817	16,240	17,839	18,331	18,614	17,346	16,438	15,450	14,578	14,550	14,744	15,457	16,345	17,660	18,816
Industrial	2,630	2,589	2,636	2,625	2,543	2,666	2,716	2,473	2,557	2,823	3,048	3,129	3,413	3,497	3,869	4,176
Materials	704	667	648	674	595	624	737	753	878	807	844	819	954	1,018	1,101	1,214
Mechanical	11,309	11,401	11,574	12,170	12,395	12,933	14,050	14,894	15,592	15,671	16,695	17,262	18,351	19,613	21,572	23,299

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Other	5,022	4,693	4,900	5,218	5,175	5,568	6,368	6,530	6,856	7,362	7,693	7,794	8,469	8,908	9,466	9,742
Science	150,369	150,469	156,752	169,006	176,444	180,975	183,140	186,076	189,732	192,892	200,385	211,817	224,509	234,899	242,691	247,273
Natural sciences	80,832	82,030	85,578	92,543	95,462	95,606	94,589	95,924	96,002	97,915	102,530	109,549	118,519	126,982	134,324	140,610
Agricultural sciences	9,780	8,975	8,725	8,740	8,336	8,383	8,398	8,781	9,017	9,334	9,691	10,904	11,616	12,783	13,271	13,226
Biological sciences	26,936	24,972	24,030	24,023	24,319	25,698	27,917	31,347	33,136	34,477	36,737	37,860	40,683	42,732	44,811	46,554
Earth, atmospheric, and ocean sciences	2,413	2,346	2,282	2,298	2,256	2,299	2,341	2,399	2,559	2,774	2,913	3,219	3,570	3,891	4,134	4,454
Atmospheric sciences	376	324	374	386	369	436	432	483	473	486	455	461	472	500	493	469
Earth sciences	1,950	1,934	1,788	1,846	1,812	1,795	1,873	1,857	2,023	2,209	2,365	2,650	2,978	3,270	3,508	3,835
Oceanography	87	88	120	66	75	68	36	59	63	79	93	108	120	121	133	150
Mathematics and computer sciences	33,113	37,500	42,518	49,251	52,330	50,636	46,496	43,376	40,922	40,839	42,385	46,162	50,513	54,647	58,701	62,660
Computer sciences	26,997	31,549	36,016	42,258	44,902	42,429	38,061	34,652	32,038	31,602	32,801	35,886	39,230	42,377	45,986	49,446
Mathematics and statistics	6,116	5,951	6,502	6,993	7,428	8,207	8,435	8,724	8,884	9,237	9,584	10,276	11,283	12,270	12,715	13,214
Physical sciences	8,590	8,237	8,023	8,231	8,221	8,590	9,437	10,021	10,368	10,491	10,804	11,404	12,137	12,929	13,407	13,716
Astronomy	106	145	160	161	169	188	235	200	226	189	248	228	239	229	259	249
Chemistry	5,483	5,041	4,716	4,649	4,548	4,779	5,253	5,636	5,923	6,038	6,176	6,560	6,984	7,306	7,585	7,561
Physics	2,638	2,692	2,817	3,076	3,233	3,299	3,621	3,846	3,888	3,917	3,985	4,220	4,495	4,945	5,097	5,462
Other physical sciences	363	359	330	345	271	324	328	339	331	347	395	396	419	449	466	444
Social and behavioral sciences	69,537	68,439	71,174	76,463	80,982	85,369	88,551	90,152	93,730	94,977	97,855	102,268	105,990	107,917	108,367	106,663

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Psychology	17,542	16,694	17,389	17,629	18,322	19,099	19,975	20,446	21,307	21,579	22,410	23,401	25,590	27,044	27,554	27,080
Social sciences	51,995	51,745	53,785	58,834	62,660	66,270	68,576	69,706	72,423	73,398	75,445	78,867	80,400	80,873	80,813	79,583
Anthropology	2,315	2,192	2,272	2,313	2,350	2,362	2,494	2,456	2,733	2,723	2,863	2,998	3,201	3,361	3,219	2,814
Area and ethnic studies	2,043	1,904	2,032	2,055	2,163	2,345	2,463	2,561	2,626	2,732	2,663	2,763	2,715	2,598	2,421	2,242
Economics	13,016	13,450	14,436	15,773	16,650	17,021	17,043	17,195	18,237	19,282	20,195	20,826	20,677	20,849	21,823	23,684
History of science	40	45	40	49	67	53	46	44	51	48	34	60	49	42	52	59
Linguistics	226	245	243	290	330	324	447	461	502	503	558	573	689	692	708	700
Political science and public administration	18,063	17,999	18,822	21,274	23,101	25,130	26,462	27,053	27,734	27,184	27,850	28,975	29,267	28,771	28,178	27,024
Sociology	7,657	7,437	7,299	7,558	7,718	8,430	8,548	8,698	8,787	8,707	8,858	8,988	9,433	9,507	9,598	9,154
Other social sciences	8,635	8,473	8,641	9,522	10,281	10,605	11,073	11,238	11,753	12,219	12,424	13,684	14,369	15,053	14,814	13,906
Non-S&E	338,409	339,650	350,965	359,122	373,727	384,834	398,530	413,696	427,069	440,686	452,245	465,099	480,384	489,075	491,438	493,304
Engineering technologies	13,448	13,286	13,480	13,276	13,195	13,425	13,274	13,989	14,160	14,487	14,788	15,590	16,062	16,089	15,757	15,858
Female																
All fields	718,559	722,887	753,330	786,757	815,833	837,643	866,363	886,311	906,625	927,600	954,891	993,872	1,038,472	1,066,182	1,081,488	1,095,703
S&E	200,952	202,664	211,308	222,940	230,797	236,290	240,829	244,075	249,449	254,693	264,283	279,107	297,539	309,698	317,900	322,935
Engineering	12,206	11,912	12,682	12,980	13,263	13,203	13,338	12,653	12,921	12,750	13,693	14,658	15,981	16,934	18,626	20,057
Aerospace	238	304	312	384	413	404	501	452	441	437	463	439	463	479	488	515
Chemical	2,203	2,055	2,123	2,013	1,833	1,776	1,678	1,743	1,834	1,917	2,149	2,307	2,535	2,657	2,977	3,186

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Civil	2,325	2,041	2,224	2,249	2,279	2,349	2,422	2,499	2,752	2,755	2,893	3,278	3,428	3,656	3,701	3,779
Electrical	2,350	2,542	2,717	2,918	3,043	2,845	2,587	2,109	1,907	1,606	1,740	1,741	1,923	2,067	2,331	2,541
Industrial	1,307	1,223	1,341	1,312	1,265	1,270	1,174	1,056	1,009	1,056	1,136	1,164	1,276	1,282	1,454	1,637
Materials	268	263	285	276	270	282	269	272	272	263	294	321	368	430	412	473
Mechanical	1,782	1,738	1,779	1,859	1,947	1,947	2,113	2,017	2,093	1,972	2,163	2,208	2,538	2,687	3,107	3,443
Other	1,733	1,746	1,901	1,969	2,213	2,330	2,594	2,505	2,613	2,744	2,855	3,200	3,450	3,676	4,156	4,483
Science	188,746	190,752	198,626	209,960	217,534	223,087	227,491	231,422	236,528	241,943	250,590	264,449	281,558	292,764	299,274	302,878
Natural sciences	70,130	70,593	73,397	77,525	78,171	77,854	79,377	80,351	81,599	83,999	87,628	92,968	100,506	106,050	111,300	117,055
Agricultural sciences	8,465	8,490	8,634	8,963	8,722	8,737	8,909	8,915	9,457	9,818	10,709	11,855	13,444	14,826	15,525	16,234
Biological sciences	37,951	37,038	37,645	39,494	40,431	42,274	45,055	48,001	49,262	51,097	52,878	55,794	59,217	61,971	64,709	68,570
Earth, atmospheric, and ocean sciences	1,606	1,622	1,702	1,651	1,647	1,660	1,646	1,678	1,755	1,768	1,889	2,080	2,295	2,400	2,596	2,701
Atmospheric sciences	114	132	151	176	203	241	219	262	263	235	236	217	263	249	258	265
Earth sciences	1,409	1,400	1,446	1,406	1,358	1,351	1,358	1,336	1,430	1,470	1,566	1,760	1,926	2,032	2,216	2,327
Oceanography	83	90	105	69	86	68	69	80	62	63	87	103	106	119	122	109
Mathematics and computer sciences	16,120	17,534	19,442	21,538	21,373	18,768	16,814	14,771	13,841	13,865	14,554	15,445	17,266	18,506	19,655	20,785
Computer sciences	10,522	12,048	13,690	15,668	15,066	12,159	9,939	7,944	6,884	6,894	7,306	7,700	8,730	9,209	10,144	10,863
Mathematics and statistics	5,598	5,486	5,752	5,870	6,307	6,609	6,875	6,827	6,957	6,971	7,248	7,745	8,536	9,297	9,511	9,922
Physical sciences	5,988	5,909	5,974	5,879	5,998	6,415	6,953	6,986	7,284	7,451	7,598	7,794	8,284	8,347	8,815	8,765

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Astronomy	54	95	116	110	123	143	131	132	120	146	140	136	153	128	170	144
Chemistry	4,905	4,774	4,723	4,680	4,752	5,144	5,634	5,614	5,909	6,106	6,162	6,328	6,730	6,718	7,097	7,108
Physics	724	755	824	837	907	900	945	1,024	988	925	1,015	1,001	1,062	1,162	1,186	1,219
Other physical sciences	305	285	311	252	216	228	243	216	267	274	281	329	339	339	362	294
Social and behavioral sciences	118,616	120,159	125,229	132,435	139,363	145,233	148,114	151,071	154,929	157,944	162,962	171,481	181,052	186,714	187,974	185,823
Psychology	57,114	57,430	59,908	61,534	64,284	66,932	68,576	70,052	71,682	73,164	75,336	78,167	84,126	88,329	90,851	91,688
Social sciences	61,502	62,729	65,321	70,901	75,079	78,301	79,538	81,019	83,247	84,780	87,626	93,314	96,926	98,385	97,123	94,135
Anthropology	4,742	4,706	4,926	5,230	5,281	5,380	5,606	5,630	6,120	6,430	6,703	7,024	7,927	8,175	8,083	7,351
Area and ethnic studies	3,571	3,653	3,803	3,690	4,081	4,267	4,512	4,559	4,697	4,866	4,701	5,054	5,145	4,987	4,683	4,378
Economics	6,384	6,921	7,387	8,093	8,277	8,139	7,664	7,630	8,044	8,346	8,895	9,187	8,780	9,185	9,762	10,660
History of science	52	56	63	54	73	64	67	70	52	52	76	78	73	77	81	72
Linguistics	490	512	604	624	717	729	754	879	1,003	975	1,124	1,235	1,420	1,492	1,517	1,575
Political science and public administration	18,321	18,651	19,743	22,522	24,408	26,410	27,127	27,545	28,155	28,135	29,799	30,777	31,493	31,473	31,082	29,790
Sociology	18,028	17,920	17,997	18,642	19,302	20,126	19,993	20,352	20,121	20,129	20,142	20,626	21,169	21,522	21,074	20,389
Other social sciences	9,914	10,310	10,798	12,046	12,940	13,186	13,815	14,354	15,055	15,847	16,186	19,333	20,919	21,474	20,841	19,920
Non-S&E	517,607	520,223	542,022	563,817	585,036	601,353	625,534	642,236	657,176	672,907	690,608	714,765	740,933	756,484	763,588	772,768
Engineering technologies	1,962	2,080	2,157	2,315	2,146	2,224	2,053	1,905	2,004	1,967	2,055	2,200	2,169	2,233	2,158	2,395

Note(s)

Engineering technologies are focused more on applied skills than on fundamental science and mathematics. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data from *Science and Engineering Indicators 2008* and earlier years that were based on accredited higher education institutions.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-22

Earned bachelor's degrees, by citizenship, field, race, and ethnicity: 2000–15

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All citizenships, races, and ethnicities																
All fields	1,254,618	1,260,308	1,308,970	1,365,694	1,417,421	1,456,401	1,502,922	1,541,704	1,580,413	1,619,028	1,668,227	1,734,229	1,810,647	1,861,034	1,890,941	1,916,129
S&E	398,602	400,435	415,983	442,755	458,658	470,214	478,858	485,772	496,168	505,435	525,374	554,365	589,330	615,475	635,915	650,057
Engineering	59,487	59,214	60,605	63,789	64,680	66,152	68,227	68,274	69,908	70,600	74,399	78,099	83,263	87,812	93,950	99,906
Aerospace	1,267	1,498	1,747	2,017	2,318	2,384	2,753	2,828	2,934	3,037	3,207	3,342	3,545	3,490	3,565	3,871
Chemical	6,219	6,088	5,946	5,545	5,185	4,889	4,857	5,081	5,504	5,894	6,692	7,535	8,344	8,917	9,706	10,837
Civil	9,571	8,949	8,891	9,367	9,400	9,800	10,663	11,318	12,243	12,787	13,482	14,840	15,175	15,882	15,551	15,374
Electrical	17,675	18,359	18,957	20,757	21,374	21,459	19,933	18,547	17,357	16,184	16,290	16,485	17,380	18,412	19,991	21,357
Industrial	3,937	3,812	3,977	3,937	3,808	3,936	3,890	3,529	3,566	3,879	4,184	4,293	4,689	4,779	5,323	5,813
Materials	972	930	933	950	865	906	1,006	1,025	1,150	1,070	1,138	1,140	1,322	1,448	1,513	1,687
Mechanical	13,091	13,139	13,353	14,029	14,342	14,880	16,163	16,911	17,685	17,643	18,858	19,470	20,889	22,300	24,679	26,742
Other	6,755	6,439	6,801	7,187	7,388	7,898	8,962	9,035	9,469	10,106	10,548	10,994	11,919	12,584	13,622	14,225
Science	339,115	341,221	355,378	378,966	393,978	404,062	410,631	417,498	426,260	434,835	450,975	476,266	506,067	527,663	541,965	550,151
Natural sciences	150,962	152,623	158,975	170,068	173,633	173,460	173,966	176,275	177,601	181,914	190,158	202,517	219,025	233,032	245,624	257,665
Agricultural sciences	18,245	17,465	17,359	17,703	17,058	17,120	17,307	17,696	18,474	19,152	20,400	22,759	25,060	27,609	28,796	29,460
Biological sciences	64,887	62,010	61,675	63,517	64,750	67,972	72,972	79,348	82,398	85,574	89,615	93,654	99,900	104,703	109,520	115,124

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth, atmospheric, and ocean sciences	4,019	3,968	3,984	3,949	3,903	3,959	3,987	4,077	4,314	4,542	4,802	5,299	5,865	6,291	6,730	7,155
Atmospheric sciences	490	456	525	562	572	677	651	745	736	721	691	678	735	749	751	734
Earth sciences	3,359	3,334	3,234	3,252	3,170	3,146	3,231	3,193	3,453	3,679	3,931	4,410	4,904	5,302	5,724	6,162
Oceanography	170	178	225	135	161	136	105	139	125	142	180	211	226	240	255	259
Mathematics and computer sciences	49,233	55,034	61,960	70,789	73,703	69,404	63,310	58,147	54,763	54,704	56,939	61,607	67,779	73,153	78,356	83,445
Computer sciences	37,519	43,597	49,706	57,926	59,968	54,588	48,000	42,596	38,922	38,496	40,107	43,586	47,960	51,586	56,130	60,309
Mathematics	11,714	11,437	12,254	12,863	13,735	14,816	15,310	15,551	15,841	16,208	16,832	18,021	19,819	21,567	22,226	23,136
Physical sciences	14,578	14,146	13,997	14,110	14,219	15,005	16,390	17,007	17,652	17,942	18,402	19,198	20,421	21,276	22,222	22,481
Astronomy	160	240	276	271	292	331	366	332	346	335	388	364	392	357	429	393
Chemistry	10,388	9,815	9,439	9,329	9,300	9,923	10,887	11,250	11,832	12,144	12,338	12,888	13,714	14,024	14,682	14,669
Physics	3,362	3,447	3,641	3,913	4,140	4,199	4,566	4,870	4,876	4,842	5,000	5,221	5,557	6,107	6,283	6,681
Other physical sciences	668	644	641	597	487	552	571	555	598	621	676	725	758	788	828	738
Social and behavioral sciences	188,153	188,598	196,403	208,898	220,345	230,602	236,665	241,223	248,659	252,921	260,817	273,749	287,042	294,631	296,341	292,486
Psychology	74,656	74,124	77,297	79,163	82,606	86,031	88,551	90,498	92,989	94,743	97,746	101,568	109,716	115,373	118,405	118,768
Social sciences	113,497	114,474	119,106	129,735	137,739	144,571	148,114	150,725	155,670	158,178	163,071	172,181	177,326	179,258	177,936	173,718
Anthropology	7,057	6,898	7,198	7,543	7,631	7,742	8,100	8,086	8,853	9,153	9,566	10,022	11,128	11,536	11,302	10,165
Area and ethnic studies	5,614	5,557	5,835	5,745	6,244	6,612	6,975	7,120	7,323	7,598	7,364	7,817	7,860	7,585	7,104	6,620
Economics	19,400	20,371	21,823	23,866	24,927	25,160	24,707	24,825	26,281	27,628	29,090	30,013	29,457	30,034	31,585	34,344

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
History of science	92	101	103	103	140	117	113	114	103	100	110	138	122	119	133	131
Linguistics	716	757	847	914	1,047	1,053	1,201	1,340	1,505	1,478	1,682	1,808	2,109	2,184	2,225	2,275
Political science and public administration	36,384	36,650	38,565	43,796	47,509	51,540	53,589	54,598	55,889	55,319	57,649	59,752	60,760	60,244	59,260	56,814
Sociology	25,685	25,357	25,296	26,200	27,020	28,556	28,541	29,050	28,908	28,836	29,000	29,614	30,602	31,029	30,672	29,543
Other social sciences	18,549	18,783	19,439	21,568	23,221	23,791	24,888	25,592	26,808	28,066	28,610	33,017	35,288	36,527	35,655	33,826
Non-S&E	856,016	859,873	892,987	922,939	958,763	986,187	1,024,064	1,055,932	1,084,245	1,113,593	1,142,853	1,179,864	1,221,317	1,245,559	1,255,026	1,266,072
Engineering technologies	15,410	15,366	15,637	15,591	15,341	15,649	15,327	15,894	16,164	16,454	16,843	17,790	18,231	18,322	17,915	18,253
U.S. citizen or permanent resident																
All fields	1,215,514	1,220,465	1,267,462	1,322,430	1,372,577	1,411,002	1,456,517	1,495,740	1,536,007	1,573,094	1,620,629	1,681,535	1,751,037	1,796,133	1,821,458	1,840,490
S&E	383,407	384,714	399,639	424,857	439,833	451,655	460,604	468,379	479,642	488,380	507,143	533,567	565,448	588,952	606,611	617,418
Engineering	54,955	54,795	56,339	59,512	60,130	61,412	63,516	63,885	65,728	66,529	69,897	72,848	76,932	81,065	86,394	91,351
Aerospace	1,146	1,350	1,625	1,857	2,144	2,213	2,606	2,653	2,783	2,859	2,990	3,097	3,278	3,217	3,269	3,599
Chemical	5,774	5,664	5,499	5,186	4,817	4,478	4,421	4,651	5,040	5,376	6,100	6,771	7,445	7,914	8,643	9,667
Civil	9,113	8,537	8,520	9,018	9,085	9,473	10,321	10,992	11,870	12,419	12,987	14,281	14,466	15,079	14,601	14,312
Electrical	15,839	16,517	17,089	18,703	19,098	19,138	17,757	16,668	15,768	14,759	14,871	14,786	15,381	16,396	17,830	18,847
Industrial	3,456	3,337	3,535	3,535	3,427	3,541	3,462	3,154	3,160	3,510	3,751	3,847	4,108	4,195	4,639	5,057
Materials	935	888	904	919	836	866	960	976	1,105	1,006	1,076	1,070	1,242	1,328	1,364	1,525
Mechanical	12,302	12,395	12,670	13,433	13,728	14,233	15,513	16,198	16,971	16,928	18,057	18,590	19,770	21,041	23,209	24,987

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Other	6,390	6,107	6,497	6,861	6,995	7,470	8,476	8,593	9,031	9,672	10,065	10,406	11,242	11,895	12,839	13,357
Science	328,452	329,919	343,300	365,345	379,703	390,243	397,088	404,494	413,914	421,851	437,246	460,719	488,516	507,887	520,217	526,067
Natural sciences	145,371	146,503	152,293	162,204	165,350	165,719	166,833	169,717	171,634	175,706	183,534	195,008	210,445	223,434	235,251	246,079
Agricultural sciences	17,987	17,217	17,097	17,433	16,807	16,846	17,041	17,414	18,246	18,909	20,111	22,417	24,686	27,094	28,227	28,856
Biological sciences	63,511	60,574	60,220	61,979	63,099	66,005	70,853	77,015	80,068	83,145	87,060	90,873	97,030	101,663	106,601	112,089
Earth, atmospheric, and ocean sciences	3,973	3,919	3,925	3,892	3,853	3,879	3,911	4,019	4,244	4,460	4,698	5,177	5,749	6,110	6,504	6,936
Atmospheric sciences	482	454	519	554	569	667	646	736	731	713	685	673	726	733	736	721
Earth sciences	3,326	3,288	3,185	3,204	3,125	3,081	3,166	3,146	3,389	3,605	3,835	4,293	4,800	5,140	5,517	5,956
Oceanography	165	177	221	134	159	131	99	137	124	142	178	211	223	237	251	259
Mathematics and computer sciences	45,854	51,203	57,597	65,313	67,963	64,652	59,402	55,004	52,197	52,046	54,064	58,223	63,524	68,379	72,834	76,942
Computer sciences	34,619	40,192	45,797	53,072	54,908	50,597	44,901	40,163	37,118	36,677	38,240	41,558	45,595	49,204	53,311	56,940
Mathematics	11,235	11,011	11,800	12,241	13,055	14,055	14,501	14,841	15,079	15,369	15,824	16,665	17,929	19,175	19,523	20,002
Physical sciences	14,046	13,590	13,454	13,587	13,628	14,337	15,626	16,265	16,879	17,146	17,601	18,318	19,456	20,188	21,085	21,256
Astronomy	156	227	260	256	282	311	353	319	330	322	375	348	384	345	401	377
Chemistry	10,044	9,480	9,097	9,003	8,950	9,526	10,421	10,799	11,364	11,615	11,791	12,315	13,115	13,331	13,937	13,907
Physics	3,202	3,267	3,475	3,745	3,951	3,999	4,323	4,647	4,647	4,633	4,793	4,966	5,231	5,758	5,952	6,267
Other physical sciences	644	616	622	583	445	501	529	500	538	576	642	689	726	754	795	705
Social and behavioral sciences	183,081	183,416	191,007	203,141	214,353	224,524	230,255	234,777	242,280	246,145	253,712	265,711	278,071	284,453	284,966	279,988

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Psychology	73,392	72,841	75,928	77,769	81,131	84,528	86,971	88,939	91,515	93,135	96,052	99,892	107,712	113,144	115,945	116,211
Social sciences	109,689	110,575	115,079	125,372	133,222	139,996	143,284	145,838	150,765	153,010	157,660	165,819	170,359	171,309	169,021	163,777
Anthropology	6,941	6,778	7,084	7,449	7,525	7,627	7,977	7,976	8,729	9,053	9,448	9,924	11,006	11,431	11,151	10,028
Area and ethnic studies	5,436	5,393	5,677	5,585	6,080	6,449	6,800	6,921	7,152	7,363	7,167	7,607	7,630	7,387	6,850	6,377
Economics	17,709	18,548	19,920	21,820	22,758	22,961	22,571	22,691	24,083	25,247	26,372	26,690	25,672	25,495	26,421	28,437
History of science	91	98	101	100	140	116	110	110	102	99	109	137	121	117	130	129
Linguistics	633	680	766	834	973	976	1,127	1,281	1,420	1,400	1,607	1,723	2,004	2,094	2,128	2,167
Political science and public administration	35,232	35,501	37,398	42,510	46,202	50,271	52,110	53,181	54,437	53,858	56,176	58,051	59,088	58,442	57,410	54,821
Sociology	25,386	25,099	25,001	25,851	26,693	28,227	28,151	28,652	28,543	28,480	28,633	29,243	30,163	30,544	30,125	28,959
Other social sciences	18,261	18,478	19,132	21,223	22,851	23,369	24,438	25,026	26,299	27,510	28,148	32,444	34,675	35,799	34,806	32,859
Non-S&E	832,107	835,751	867,823	897,573	932,744	959,347	995,913	1,027,361	1,056,365	1,084,714	1,113,486	1,147,968	1,185,589	1,207,181	1,214,847	1,223,072
Engineering technologies	14,967	14,823	15,171	15,132	14,825	15,161	14,949	15,515	15,793	16,009	16,415	17,340	17,715	17,676	17,252	17,368
Hispanic or Latino[a]																
All fields	88,445	90,232	95,492	101,030	106,388	111,616	118,057	124,787	131,695	137,746	147,205	159,936	176,699	194,919	211,710	226,900
S&E	27,980	28,361	29,935	32,533	33,748	35,662	37,049	38,546	40,877	43,018	46,336	51,421	58,146	65,726	73,179	79,203
Engineering	4,075	4,015	4,136	4,358	4,483	4,628	4,928	4,962	5,234	5,577	5,948	6,317	7,173	7,907	8,984	9,960
Aerospace	67	92	97	110	121	139	153	172	172	194	232	217	279	288	345	396
Chemical	380	341	353	320	313	333	345	326	375	405	446	478	606	638	714	814

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Civil	762	742	761	798	836	888	952	1,006	1,079	1,269	1,338	1,428	1,586	1,802	1,825	1,887
Electrical	1,283	1,301	1,411	1,428	1,564	1,535	1,563	1,521	1,467	1,484	1,404	1,548	1,710	1,790	2,150	2,303
Industrial	391	356	372	365	332	364	391	337	326	428	431	463	540	543	605	646
Materials	38	34	33	50	52	59	58	40	58	48	57	50	91	81	104	99
Mechanical	846	880	819	950	935	962	1,050	1,147	1,301	1,183	1,449	1,516	1,712	1,970	2,345	2,765
Other	308	269	290	337	330	348	416	413	456	566	591	617	649	795	896	1,050
Science	23,905	24,346	25,799	28,175	29,265	31,034	32,121	33,584	35,643	37,441	40,388	45,104	50,973	57,819	64,195	69,243
Natural sciences	8,842	9,202	9,476	10,767	10,736	10,968	11,099	11,312	12,153	12,720	13,659	15,231	17,536	20,142	23,072	25,845
Agricultural sciences	635	607	662	686	673	710	651	776	997	969	999	1,236	1,407	1,815	1,983	2,236
Biological sciences	4,446	4,547	4,367	4,840	4,611	4,819	5,084	5,453	5,995	6,384	7,124	7,761	8,891	10,081	11,542	13,171
Earth, atmospheric, and ocean sciences	125	157	136	119	131	151	143	135	192	221	246	265	323	390	495	539
Atmospheric sciences	9	15	10	10	13	20	20	18	30	42	31	29	36	33	56	46
Earth sciences	105	130	109	103	112	121	120	113	155	172	200	223	274	343	422	466
Oceanography	11	12	17	6	6	10	3	4	7	7	15	13	13	14	17	27
Mathematics and computer sciences	2,753	3,021	3,448	4,261	4,436	4,350	4,232	3,916	3,847	3,977	4,129	4,691	5,487	6,223	7,224	7,849
Computer sciences	2,154	2,396	2,776	3,590	3,758	3,529	3,351	2,970	2,923	2,999	3,124	3,539	4,210	4,719	5,469	5,912
Mathematics and statistics	599	625	672	671	678	821	881	946	924	978	1,005	1,152	1,277	1,504	1,755	1,937

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Physical sciences	883	870	863	861	885	938	989	1,032	1,122	1,169	1,161	1,278	1,428	1,633	1,828	2,050
Astronomy	7	16	10	12	23	17	12	18	30	21	33	26	21	31	36	38
Chemistry	719	669	666	669	651	704	739	748	830	879	841	940	1,052	1,104	1,273	1,416
Physics	125	151	156	164	187	183	206	246	229	235	258	276	314	426	446	528
Other physical sciences	32	34	31	16	24	34	32	20	33	34	29	36	41	72	73	68
Social and behavioral sciences	15,063	15,144	16,323	17,408	18,529	20,066	21,022	22,272	23,490	24,721	26,729	29,873	33,437	37,677	41,123	43,398
Psychology	6,127	6,178	6,695	6,828	7,285	7,708	8,236	8,506	8,885	9,615	10,412	11,667	13,353	15,389	17,580	18,799
Social sciences	8,936	8,966	9,628	10,580	11,244	12,358	12,786	13,766	14,605	15,106	16,317	18,206	20,084	22,288	23,543	24,599
Anthropology	462	465	494	533	568	578	607	636	723	775	873	1,056	1,200	1,394	1,503	1,548
Area and ethnic studies	659	648	688	717	756	827	926	971	972	1,007	1,021	1,185	1,261	1,294	1,305	1,229
Economics	976	1,030	1,068	1,188	1,290	1,352	1,423	1,510	1,540	1,616	1,836	1,835	2,047	2,205	2,396	2,821
History of science	3	5	7	4	7	6	5	5	2	3	5	13	8	7	9	12
Linguistics	42	45	39	48	71	68	80	101	120	121	141	165	216	254	288	312
Political science and public administration	2,973	2,925	3,135	3,586	3,872	4,583	4,531	5,105	5,382	5,496	5,768	6,422	6,889	7,607	7,935	8,068
Sociology	2,317	2,291	2,440	2,555	2,665	2,874	2,969	3,150	3,283	3,398	3,746	4,065	4,603	5,198	5,438	5,699
Other social sciences	1,504	1,557	1,757	1,949	2,015	2,070	2,245	2,288	2,583	2,690	2,927	3,465	3,860	4,329	4,669	4,910
Non-S&E	60,465	61,871	65,557	68,497	72,640	75,954	81,008	86,241	90,818	94,728	100,869	108,515	118,553	129,193	138,531	147,697
Engineering technologies	1,123	1,146	1,187	1,290	1,215	1,210	1,098	1,148	1,315	1,242	1,353	1,502	1,565	1,801	1,794	1,888

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Not Hispanic or Latino																
All fields	1,127,069	1,130,233	1,171,970	1,221,400	1,266,189	1,299,386	1,338,460	1,370,953	1,404,312	1,435,348	1,473,424	1,521,599	1,574,338	1,601,214	1,609,748	1,613,590
S&E	355,427	356,353	369,704	392,324	406,085	415,993	423,555	429,833	438,765	445,362	460,807	482,146	507,302	523,226	533,432	538,215
Engineering	50,880	50,780	52,203	55,154	55,647	56,784	58,588	58,923	60,494	60,952	63,949	66,531	69,759	73,158	77,410	81,391
Aerospace	1,079	1,258	1,528	1,747	2,023	2,074	2,453	2,481	2,611	2,665	2,758	2,880	2,999	2,929	2,924	3,203
Chemical	5,394	5,323	5,146	4,866	4,504	4,145	4,076	4,325	4,665	4,971	5,654	6,293	6,839	7,276	7,929	8,853
Civil	8,351	7,795	7,759	8,220	8,249	8,585	9,369	9,986	10,791	11,150	11,649	12,853	12,880	13,277	12,776	12,425
Electrical	14,556	15,216	15,678	17,275	17,534	17,603	16,194	15,147	14,301	13,275	13,467	13,238	13,671	14,606	15,680	16,544
Industrial	3,065	2,981	3,163	3,170	3,095	3,177	3,071	2,817	2,834	3,082	3,320	3,384	3,568	3,652	4,034	4,411
Materials	897	854	871	869	784	807	902	936	1,047	958	1,019	1,020	1,151	1,247	1,260	1,426
Mechanical	11,456	11,515	11,851	12,483	12,793	13,271	14,463	15,051	15,670	15,745	16,608	17,074	18,058	19,071	20,864	22,222
Other	6,082	5,838	6,207	6,524	6,665	7,122	8,060	8,180	8,575	9,106	9,474	9,789	10,593	11,100	11,943	12,307
Science	304,547	305,573	317,501	337,170	350,438	359,209	364,967	370,910	378,271	384,410	396,858	415,615	437,543	450,068	456,022	456,824
Natural sciences	136,529	137,301	142,817	151,437	154,614	154,751	155,734	158,405	159,481	162,986	169,875	179,777	192,909	203,292	212,179	220,234
Agricultural sciences	17,352	16,610	16,435	16,747	16,134	16,136	16,390	16,638	17,249	17,940	19,112	21,181	23,279	25,279	26,244	26,620
Biological sciences	59,065	56,027	55,853	57,139	58,488	61,186	65,769	71,562	74,073	76,761	79,936	83,112	88,139	91,582	95,059	98,918
Earth, atmospheric, and ocean sciences	3,848	3,762	3,789	3,773	3,722	3,728	3,768	3,884	4,052	4,239	4,452	4,912	5,426	5,720	6,009	6,397
Atmospheric sciences	473	439	509	544	556	647	626	718	701	671	654	644	690	700	680	675

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth sciences	3,221	3,158	3,076	3,101	3,013	2,960	3,046	3,033	3,234	3,433	3,635	4,070	4,526	4,797	5,095	5,490
Oceanography	154	165	204	128	153	121	96	133	117	135	163	198	210	223	234	232
Mathematics and computer sciences	43,101	48,182	54,149	61,052	63,527	60,302	55,170	51,088	48,350	48,069	49,935	53,532	58,037	62,156	65,610	69,093
Computer sciences	32,465	37,796	43,021	49,482	51,150	47,068	41,550	37,193	34,195	33,678	35,116	38,019	41,385	44,485	47,842	51,028
Mathematics and statistics	10,636	10,386	11,128	11,570	12,377	13,234	13,620	13,895	14,155	14,391	14,819	15,513	16,652	17,671	17,768	18,065
Physical sciences	13,163	12,720	12,591	12,726	12,743	13,399	14,637	15,233	15,757	15,977	16,440	17,040	18,028	18,555	19,257	19,206
Astronomy	149	211	250	244	259	294	341	301	300	301	342	322	363	314	365	339
Chemistry	9,325	8,811	8,431	8,334	8,299	8,822	9,682	10,051	10,534	10,736	10,950	11,375	12,063	12,227	12,664	12,491
Physics	3,077	3,116	3,319	3,581	3,764	3,816	4,117	4,401	4,418	4,398	4,535	4,690	4,917	5,332	5,506	5,739
Other physical sciences	612	582	591	567	421	467	497	480	505	542	613	653	685	682	722	637
Social and behavioral sciences	168,018	168,272	174,684	185,733	195,824	204,458	209,233	212,505	218,790	221,424	226,983	235,838	244,634	246,776	243,843	236,590
Psychology	67,265	66,663	69,233	70,941	73,846	76,820	78,735	80,433	82,630	83,520	85,640	88,225	94,359	97,755	98,365	97,412
Social sciences	100,753	101,609	105,451	114,792	121,978	127,638	130,498	132,072	136,160	137,904	141,343	147,613	150,275	149,021	145,478	139,178
Anthropology	6,479	6,313	6,590	6,916	6,957	7,049	7,370	7,340	8,006	8,278	8,575	8,868	9,806	10,037	9,648	8,480
Area and ethnic studies	4,777	4,745	4,989	4,868	5,324	5,622	5,874	5,950	6,180	6,356	6,146	6,422	6,369	6,093	5,545	5,148
Economics	16,733	17,518	18,852	20,632	21,468	21,609	21,148	21,181	22,543	23,631	24,536	24,855	23,625	23,290	24,025	25,616
History of science	88	93	94	96	133	110	105	105	100	96	104	124	113	110	121	117
Linguistics	591	635	727	786	902	908	1,047	1,180	1,300	1,279	1,466	1,558	1,788	1,840	1,840	1,855

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Political science and public administration	32,259	32,576	34,263	38,924	42,330	45,688	47,579	48,076	49,055	48,362	50,408	51,629	52,199	50,835	49,475	46,753
Sociology	23,069	22,808	22,561	23,296	24,028	25,353	25,182	25,502	25,260	25,082	24,887	25,178	25,560	25,346	24,687	23,260
Other social sciences	16,757	16,921	17,375	19,274	20,836	21,299	22,193	22,738	23,716	24,820	25,221	28,979	30,815	31,470	30,137	27,949
Non-S&E	771,642	773,880	802,266	829,076	860,104	883,393	914,905	941,120	965,547	989,986	1,012,617	1,039,453	1,067,036	1,077,988	1,076,316	1,075,375
Engineering technologies	13,844	13,677	13,984	13,842	13,610	13,951	13,851	14,367	14,478	14,767	15,062	15,838	16,150	15,875	15,458	15,480
American Indian or Alaska Native																
All fields	8,414	8,683	8,744	9,314	10,021	9,704	10,281	10,751	10,768	11,407	11,485	11,126	10,743	10,768	10,211	9,697
S&E	2,607	2,800	2,649	2,909	3,264	3,209	3,341	3,319	3,392	3,564	3,624	3,445	3,411	3,446	3,192	2,972
Engineering	326	256	308	320	333	349	353	305	344	347	366	322	309	356	320	316
Aerospace	7	8	17	10	23	16	14	9	16	19	20	16	17	10	11	12
Chemical	42	31	33	34	29	30	27	25	36	30	37	29	31	34	31	40
Civil	83	65	67	67	64	73	73	75	63	75	77	89	61	81	72	46
Electrical	81	56	70	99	88	84	69	61	81	72	76	55	56	69	62	49
Industrial	23	17	21	12	15	27	17	14	23	18	21	10	16	20	16	19
Materials	5	4	6	3	6	5	8	5	7	5	1	3	5	1	1	2
Mechanical	52	51	61	58	73	72	91	71	81	88	87	84	78	82	70	97
Other	33	24	33	37	35	42	54	45	37	40	47	36	45	59	57	51
Science	2,281	2,544	2,341	2,589	2,931	2,860	2,988	3,014	3,048	3,217	3,258	3,123	3,102	3,090	2,872	2,656

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Natural sciences	917	1,080	967	1,002	1,216	1,145	1,141	1,151	1,109	1,231	1,201	1,171	1,212	1,233	1,177	1,111
Agricultural sciences	190	215	158	163	188	161	186	165	172	207	175	182	213	225	193	206
Biological sciences	379	431	410	378	417	499	479	531	508	577	550	546	576	528	493	435
Earth, atmospheric, and ocean sciences	43	35	26	24	31	25	36	26	28	29	44	31	47	33	43	44
Atmospheric sciences	4	5	1	4	1	1	1	4	2	4	4	2	3	5	3	5
Earth sciences	35	29	23	18	30	23	35	21	26	24	39	29	44	26	39	36
Oceanography	4	1	2	2	0	1	0	1	0	1	1	0	0	2	1	3
Mathematics and computer sciences	240	326	290	343	504	357	338	312	294	284	324	310	289	344	339	349
Computer sciences	172	275	233	278	445	281	274	249	221	213	248	226	231	267	278	281
Mathematics and statistics	68	51	57	65	59	76	64	63	73	71	76	84	58	77	61	68
Physical sciences	65	73	83	94	76	103	102	117	107	134	108	102	87	103	109	77
Astronomy	2	2	2	4	1	3	1	1	1	2	3	1	3	5	0	0
Chemistry	49	47	57	71	50	65	73	90	80	94	66	68	59	69	79	64
Physics	12	19	21	17	20	33	24	22	22	32	35	31	23	25	27	10
Other physical sciences	2	5	3	2	5	2	4	4	4	6	4	2	2	4	3	3

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Social and behavioral sciences	1,364	1,464	1,374	1,587	1,715	1,715	1,847	1,863	1,939	1,986	2,057	1,952	1,890	1,857	1,695	1,545
Psychology	518	561	542	545	597	555	597	612	637	632	748	651	711	672	660	601
Social sciences	846	903	832	1,042	1,118	1,160	1,250	1,251	1,302	1,354	1,309	1,301	1,179	1,185	1,035	944
Anthropology	89	93	85	111	103	98	114	116	106	134	107	102	103	107	72	71
Area and ethnic studies	80	106	121	128	145	134	127	170	166	176	157	186	167	203	173	162
Economics	71	68	65	95	108	95	104	103	104	128	112	114	87	99	75	84
History of science	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0
Linguistics	10	2	2	9	4	12	7	11	9	12	10	16	7	12	7	12
Political science and public administration	230	234	241	288	354	345	397	368	404	375	416	387	332	334	301	260
Sociology	220	225	184	244	228	259	271	249	268	299	267	228	228	211	202	165
Other social sciences	145	175	134	167	176	217	230	234	244	229	240	268	254	219	204	190
Non-S&E	5,807	5,883	6,095	6,405	6,757	6,495	6,940	7,432	7,376	7,843	7,861	7,681	7,332	7,322	7,019	6,725
Engineering technologies	110	129	102	126	195	96	132	138	112	142	132	152	145	163	149	155
Asian																
All fields	na	na	na	na	na	na	na	na	na	na	na	109,009	113,716	117,932	120,037	122,822
S&E	na	na	na	na	na	na	na	na	na	na	na	51,139	53,254	56,080	57,374	59,092
Engineering	na	na	na	na	na	na	na	na	na	na	na	8,658	9,081	9,947	10,078	10,734

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aerospace	na	na	na	na	na	na	na	na	na	na	na	325	343	389	334	395
Chemical	na	na	na	na	na	na	na	na	na	na	na	898	1,040	1,125	1,133	1,344
Civil	na	na	na	na	na	na	na	na	na	na	na	1,227	1,214	1,344	1,218	1,223
Electrical	na	na	na	na	na	na	na	na	na	na	na	2,449	2,488	2,772	2,899	3,110
Industrial	na	na	na	na	na	na	na	na	na	na	na	390	390	420	419	455
Materials	na	na	na	na	na	na	na	na	na	na	na	145	157	202	183	224
Mechanical	na	na	na	na	na	na	na	na	na	na	na	1,566	1,686	1,876	1,946	2,079
Other	na	na	na	na	na	na	na	na	na	na	na	1,658	1,763	1,819	1,946	1,904
Science	na	na	na	na	na	na	na	na	na	na	na	42,481	44,173	46,133	47,296	48,358
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	22,949	24,616	26,165	27,624	29,244
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	898	1,039	1,115	1,123	1,156
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	14,496	15,403	15,791	16,125	16,658
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	148	185	210	213	247
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	11	19	13	16	22
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	129	150	188	180	213
Oceanography	na	na	na	na	na	na	na	na	na	na	na	8	16	9	17	12
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	5,244	5,664	6,619	7,564	8,670

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	3,439	3,819	4,520	5,364	6,326
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	1,805	1,845	2,099	2,200	2,344
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	2,163	2,325	2,430	2,599	2,513
Astronomy	na	na	na	na	na	na	na	na	na	na	na	20	33	32	38	27
Chemistry	na	na	na	na	na	na	na	na	na	na	na	1,769	1,856	1,931	2,099	1,980
Physics	na	na	na	na	na	na	na	na	na	na	na	339	377	425	402	462
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	35	59	42	60	44
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	19,532	19,557	19,968	19,672	19,114
Psychology	na	na	na	na	na	na	na	na	na	na	na	6,207	6,673	6,973	7,099	6,940
Social sciences	na	na	na	na	na	na	na	na	na	na	na	13,325	12,884	12,995	12,573	12,174
Anthropology	na	na	na	na	na	na	na	na	na	na	na	657	678	737	714	620
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	809	883	819	714	638
Economics	na	na	na	na	na	na	na	na	na	na	na	4,424	4,151	4,112	4,161	4,248
History of science	na	na	na	na	na	na	na	na	na	na	na	13	13	13	15	9
Linguistics	na	na	na	na	na	na	na	na	na	na	na	193	219	213	223	236
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	3,690	3,532	3,576	3,317	3,154

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Sociology	na	na	na	na	na	na	na	na	na	na	na	1,808	1,750	1,801	1,753	1,686
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	1,731	1,658	1,724	1,676	1,583
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	57,870	60,462	61,852	62,663	63,730
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	664	622	649	663	665
Asian or Pacific Islander[b]																
All fields	75,384	75,741	79,482	83,498	86,743	91,482	96,315	99,011	102,301	105,246	109,022	na	na	na	na	na
S&E	35,556	36,468	37,518	39,944	41,403	43,312	44,475	45,516	47,323	48,348	50,367	na	na	na	na	na
Engineering	6,850	7,025	7,120	7,413	7,628	8,211	8,551	8,466	8,343	8,266	8,405	na	na	na	na	na
Aerospace	98	103	128	145	186	184	223	250	278	294	309	na	na	na	na	na
Chemical	788	702	636	563	527	486	558	652	690	739	888	na	na	na	na	na
Civil	642	521	482	500	493	585	770	908	985	1,111	1,083	na	na	na	na	na
Electrical	3,143	3,522	3,773	3,967	4,086	4,293	3,840	3,353	2,994	2,561	2,415	na	na	na	na	na
Industrial	332	319	356	386	376	352	362	333	315	360	343	na	na	na	na	na
Materials	91	88	85	91	95	101	166	153	140	137	157	na	na	na	na	na
Mechanical	1,002	998	892	939	928	1,082	1,249	1,413	1,491	1,489	1,543	na	na	na	na	na
Other	754	772	768	822	937	1,128	1,383	1,404	1,450	1,575	1,667	na	na	na	na	na
Science	28,706	29,443	30,398	32,531	33,775	35,101	35,924	37,050	38,980	40,082	41,962	na	na	na	na	na
Natural sciences	16,342	16,633	17,196	18,499	18,433	18,455	18,459	19,106	20,231	20,957	22,078	na	na	na	na	na
Agricultural sciences	454	399	411	459	415	448	542	606	632	731	831	na	na	na	na	na

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Biological sciences	8,025	7,493	7,209	7,398	7,792	8,835	10,088	11,572	12,866	13,578	14,327	na	na	na	na	na
Earth, atmospheric, and ocean sciences	97	86	85	73	85	86	92	106	121	143	158	na	na	na	na	na
Atmospheric sciences	14	14	8	9	11	15	12	17	13	14	15	na	na	na	na	na
Earth sciences	77	64	65	58	65	69	75	82	104	119	133	na	na	na	na	na
Oceanography	6	8	12	6	9	2	5	7	4	10	10	na	na	na	na	na
Mathematics and computer sciences	6,304	7,311	8,274	9,426	8,912	7,770	6,119	5,020	4,645	4,459	4,645	na	na	na	na	na
Computer sciences	5,415	6,395	7,273	8,273	7,668	6,351	4,672	3,581	3,133	2,894	3,015	na	na	na	na	na
Mathematics and statistics	889	916	1,001	1,153	1,244	1,419	1,447	1,439	1,512	1,565	1,630	na	na	na	na	na
Physical sciences	1,462	1,344	1,217	1,143	1,229	1,316	1,618	1,802	1,967	2,046	2,117	na	na	na	na	na
Astronomy	9	12	24	16	18	21	37	16	21	27	36	na	na	na	na	na
Chemistry	1,208	1,126	978	893	960	1,024	1,267	1,420	1,596	1,671	1,726	na	na	na	na	na
Physics	218	184	184	204	223	236	281	327	307	306	310	na	na	na	na	na
Other physical sciences	27	22	31	30	28	35	33	39	43	42	45	na	na	na	na	na
Social and behavioral sciences	12,364	12,810	13,202	14,032	15,342	16,646	17,465	17,944	18,749	19,125	19,884	na	na	na	na	na
Psychology	4,188	4,150	4,241	4,064	4,350	4,797	5,305	5,615	5,931	6,042	6,231	na	na	na	na	na

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Social sciences	8,176	8,660	8,961	9,968	10,992	11,849	12,160	12,329	12,818	13,083	13,653	na	na	na	na	na
Anthropology	340	332	377	396	398	424	496	534	581	599	678	na	na	na	na	na
Area and ethnic studies	737	714	686	671	758	875	879	899	880	932	895	na	na	na	na	na
Economics	2,774	3,082	3,235	3,708	4,007	4,003	3,913	3,874	3,976	4,218	4,645	na	na	na	na	na
History of science	12	15	20	16	14	11	9	8	11	13	8	na	na	na	na	na
Linguistics	72	69	73	83	105	112	112	136	156	152	187	na	na	na	na	na
Political science and public administration	2,073	2,228	2,325	2,648	2,903	3,267	3,488	3,539	3,653	3,551	3,640	na	na	na	na	na
Sociology	1,324	1,300	1,325	1,372	1,596	1,853	1,907	1,908	1,994	1,950	1,992	na	na	na	na	na
Other social sciences	844	920	920	1,074	1,211	1,304	1,356	1,431	1,567	1,668	1,608	na	na	na	na	na
Non-S&E	39,828	39,273	41,964	43,554	45,340	48,170	51,840	53,495	54,978	56,898	58,655	na	na	na	na	na
Engineering technologies	770	731	769	703	680	754	661	669	657	594	622	na	na	na	na	na
Black or African American																
All fields	104,341	106,966	111,330	117,902	123,636	127,978	133,743	137,566	142,576	145,988	152,404	161,005	172,868	179,517	180,812	182,778
S&E	32,993	33,386	34,899	36,961	38,737	39,846	40,108	40,401	41,263	41,822	43,428	46,341	49,683	52,165	52,647	53,649
Engineering	3,069	2,892	2,982	3,092	3,227	3,206	3,209	3,164	3,101	3,096	3,082	3,097	3,218	3,505	3,599	3,852
Aerospace	40	39	43	65	70	71	85	72	84	90	101	88	73	91	82	113
Chemical	383	373	346	317	303	273	231	244	256	256	255	288	337	359	390	401
Civil	403	329	317	292	320	342	324	403	420	441	483	510	513	542	534	575

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Electrical	1,055	1,089	1,103	1,301	1,408	1,331	1,277	1,207	1,135	1,120	1,035	980	996	1,147	1,147	1,154
Industrial	256	238	256	275	251	297	273	252	229	230	262	245	258	236	255	273
Materials	24	27	32	22	22	19	28	22	31	30	27	29	36	33	39	41
Mechanical	594	515	561	471	504	537	569	570	560	539	550	585	610	694	668	793
Other	314	282	324	349	349	336	422	394	386	390	369	372	395	403	484	502
Science	29,924	30,494	31,917	33,869	35,510	36,640	36,899	37,237	38,162	38,726	40,346	43,244	46,465	48,660	49,048	49,797
Natural sciences	10,796	11,359	12,066	13,191	13,554	13,199	13,071	12,880	12,540	12,694	13,114	13,721	15,012	16,143	16,472	17,286
Agricultural sciences	450	428	454	452	450	444	485	481	557	510	595	575	704	744	852	856
Biological sciences	4,738	4,693	4,632	4,878	5,039	5,052	5,366	5,857	6,003	6,253	6,434	6,677	7,073	7,494	7,663	8,250
Earth, atmospheric, and ocean sciences	51	56	62	60	65	68	58	79	89	88	97	105	119	134	143	166
Atmospheric sciences	10	2	10	12	20	8	14	15	21	20	23	23	18	21	19	14
Earth sciences	40	52	42	43	43	54	43	61	65	65	71	76	95	106	116	143
Oceanography	1	2	10	5	2	6	1	3	3	3	3	6	6	7	8	9
Mathematics and computer sciences	4,467	5,186	5,900	6,873	7,042	6,670	6,122	5,420	4,807	4,710	4,900	5,239	5,811	6,512	6,494	6,762
Computer sciences	3,563	4,378	5,057	6,083	6,259	5,815	5,275	4,588	4,011	3,868	4,066	4,418	4,847	5,497	5,472	5,746
Mathematics and statistics	904	808	843	790	783	855	847	832	796	842	834	821	964	1,015	1,022	1,016
Physical sciences	1,090	996	1,018	928	958	965	1,040	1,043	1,084	1,133	1,088	1,125	1,305	1,259	1,320	1,252

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Astronomy	1	2	3	1	3	4	9	3	6	5	7	5	3	5	3	10
Chemistry	888	827	796	744	756	760	827	852	910	935	893	918	1,101	1,044	1,068	1,009
Physics	152	133	182	147	166	166	171	163	144	149	143	149	142	148	195	172
Other physical sciences	49	34	37	36	33	35	33	25	24	44	45	53	59	62	54	61
Social and behavioral sciences	19,128	19,135	19,851	20,678	21,956	23,441	23,828	24,357	25,622	26,032	27,232	29,523	31,453	32,517	32,576	32,511
Psychology	7,572	7,561	7,748	8,014	8,485	9,141	9,097	9,729	10,271	10,541	11,066	11,643	12,709	13,413	13,617	14,022
Social sciences	11,556	11,574	12,103	12,664	13,471	14,300	14,731	14,628	15,351	15,491	16,166	17,880	18,744	19,104	18,959	18,489
Anthropology	268	242	253	258	338	320	337	358	408	435	447	495	500	506	515	467
Area and ethnic studies	738	691	784	749	805	905	1,011	926	1,012	992	927	1,211	1,076	917	963	925
Economics	1,044	1,089	1,221	1,326	1,409	1,377	1,379	1,289	1,380	1,346	1,441	1,414	1,380	1,437	1,428	1,648
History of science	6	6	4	6	8	5	4	12	7	8	9	7	20	9	8	11
Linguistics	14	24	25	17	32	33	44	44	57	50	44	60	84	80	85	69
Political science and public administration	3,601	3,556	3,737	4,059	4,452	4,866	5,099	4,955	5,119	5,188	5,536	5,844	6,340	6,664	6,600	6,369
Sociology	4,097	4,200	4,167	4,214	4,220	4,539	4,627	4,721	4,842	4,761	4,879	5,271	5,457	5,448	5,482	5,336
Other social sciences	1,788	1,766	1,912	2,035	2,207	2,255	2,230	2,323	2,526	2,711	2,883	3,578	3,887	4,043	3,878	3,664
Non-S&E	71,348	73,580	76,431	80,941	84,899	88,132	93,635	97,165	101,313	104,166	108,976	114,664	123,185	127,352	128,165	129,129
Engineering technologies	1,466	1,427	1,467	1,557	1,592	1,599	1,574	1,463	1,467	1,442	1,531	1,650	1,851	1,962	1,924	1,870

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Native Hawaiian or Other Pacific Islander																
All fields	na	na	na	na	na	na	na	na	na	na	na	4,205	4,545	4,958	5,139	4,987
S&E	na	na	na	na	na	na	na	na	na	na	na	1,240	1,485	1,549	1,568	1,611
Engineering	na	na	na	na	na	na	na	na	na	na	na	117	162	187	183	141
Aerospace	na	na	na	na	na	na	na	na	na	na	na	3	5	5	6	4
Chemical	na	na	na	na	na	na	na	na	na	na	na	5	9	9	9	11
Civil	na	na	na	na	na	na	na	na	na	na	na	36	55	45	40	32
Electrical	na	na	na	na	na	na	na	na	na	na	na	29	34	49	34	35
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	5	12	8	5
Materials	na	na	na	na	na	na	na	na	na	na	na	2	3	3	3	1
Mechanical	na	na	na	na	na	na	na	na	na	na	na	29	34	40	53	33
Other	na	na	na	na	na	na	na	na	na	na	na	13	17	24	30	20
Science	na	na	na	na	na	na	na	na	na	na	na	1,123	1,323	1,362	1,385	1,470
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	440	528	567	604	641
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	38	48	63	76	89
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	220	261	250	269	291
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	8	8	13	10	9
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	1	2	1	2

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	8	7	10	8	6
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	1	1	1
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	138	183	197	213	215
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	101	145	159	179	180
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	37	38	38	34	35
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	36	28	44	36	37
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	27	21	29	23	26
Physics	na	na	na	na	na	na	na	na	na	na	na	8	5	14	5	9
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	1	2	1	8	2
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	683	795	795	781	829
Psychology	na	na	na	na	na	na	na	na	na	na	na	206	238	272	275	297
Social sciences	na	na	na	na	na	na	na	na	na	na	na	477	557	523	506	532
Anthropology	na	na	na	na	na	na	na	na	na	na	na	25	33	24	39	30
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	38	43	44	40	41
Economics	na	na	na	na	na	na	na	na	na	na	na	65	53	48	46	57

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1
Linguistics	na	na	na	na	na	na	na	na	na	na	na	3	3	4	5	8
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	158	188	165	182	162
Sociology	na	na	na	na	na	na	na	na	na	na	na	99	109	95	94	115
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	89	128	143	100	118
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	2,965	3,060	3,409	3,571	3,376
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	19	26	34	39	50
White																
All fields	896,511	890,089	914,692	943,779	967,924	987,957	1,011,497	1,032,791	1,051,236	1,069,016	1,082,145	1,102,792	1,132,689	1,150,239	1,154,363	1,150,065
S&E	270,341	267,866	276,403	290,875	297,708	303,321	308,888	312,763	316,982	320,081	326,643	338,461	354,629	365,827	372,882	373,795
Engineering	39,025	38,723	39,693	41,820	41,838	42,191	43,526	43,980	45,383	45,647	47,977	49,401	52,352	54,344	57,811	60,596
Aerospace	899	1,058	1,279	1,447	1,629	1,723	2,005	2,017	2,088	2,113	2,155	2,257	2,379	2,254	2,297	2,484
Chemical	4,062	4,061	3,976	3,746	3,483	3,203	3,086	3,210	3,453	3,706	4,169	4,699	5,009	5,346	5,817	6,507
Civil	6,984	6,615	6,624	7,032	7,012	7,196	7,768	8,130	8,750	8,871	9,243	9,982	10,263	10,378	10,060	9,692
Electrical	9,717	9,875	9,968	10,971	10,939	10,868	10,026	9,620	9,207	8,588	8,904	8,635	9,114	9,525	10,274	10,884
Industrial	2,385	2,323	2,429	2,388	2,353	2,353	2,312	2,107	2,148	2,346	2,501	2,482	2,692	2,773	3,097	3,377
Materials	741	708	712	701	614	633	671	711	802	710	778	776	846	944	940	1,060
Mechanical	9,450	9,520	9,852	10,501	10,730	10,933	11,833	12,266	12,692	12,753	13,420	13,568	14,426	15,113	16,664	17,626

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Other	4,787	4,563	4,853	5,034	5,078	5,282	5,825	5,919	6,243	6,560	6,807	7,002	7,623	8,011	8,662	8,966
Science	231,316	229,143	236,710	249,055	255,870	261,130	265,362	268,783	271,599	274,434	278,666	289,060	302,277	311,483	315,071	313,199
Natural sciences	103,331	102,252	105,511	110,194	110,989	111,642	112,658	114,851	114,545	116,594	120,168	126,538	135,222	142,658	148,787	153,497
Agricultural sciences	15,655	14,948	14,728	14,935	14,368	14,353	14,388	14,523	15,004	15,476	16,291	17,967	19,635	21,392	22,145	22,454
Biological sciences	43,903	41,261	41,212	41,893	42,443	43,759	46,495	49,771	50,367	51,756	53,192	55,171	58,374	60,732	63,320	65,376
Earth, atmospheric, and ocean sciences	3,536	3,436	3,450	3,442	3,338	3,366	3,360	3,474	3,565	3,718	3,879	4,256	4,713	4,970	5,211	5,492
Atmospheric sciences	437	395	467	493	508	597	575	662	639	610	586	575	620	619	608	593
Earth sciences	2,959	2,888	2,806	2,837	2,691	2,663	2,703	2,692	2,822	2,996	3,149	3,509	3,917	4,161	4,417	4,704
Oceanography	140	153	177	112	139	106	82	120	104	112	144	172	176	190	186	195
Mathematics and computer sciences	30,141	32,808	36,434	39,998	41,024	39,886	37,400	35,764	34,064	33,934	34,875	36,921	39,642	42,230	44,344	46,298
Computer sciences	21,759	24,649	27,696	31,040	31,400	29,742	26,948	25,033	23,189	23,021	23,702	25,293	27,067	29,031	31,206	33,112
Mathematics and statistics	8,382	8,159	8,738	8,958	9,624	10,144	10,452	10,731	10,875	10,913	11,173	11,628	12,575	13,199	13,138	13,186
Physical sciences	10,096	9,799	9,687	9,926	9,816	10,278	11,015	11,319	11,545	11,710	11,931	12,223	12,858	13,334	13,767	13,877
Astronomy	131	185	204	212	220	234	269	248	251	233	260	272	291	249	291	275
Chemistry	6,900	6,500	6,260	6,280	6,149	6,586	7,023	7,135	7,322	7,463	7,560	7,821	8,181	8,287	8,489	8,510
Physics	2,543	2,617	2,736	2,963	3,115	3,092	3,333	3,545	3,572	3,599	3,636	3,734	3,917	4,285	4,438	4,612

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Other physical sciences	522	497	487	471	332	366	390	391	400	415	475	396	469	513	549	480
Social and behavioral sciences	127,985	126,891	131,199	138,861	144,881	149,488	152,704	153,932	157,054	157,840	158,498	162,522	167,055	168,825	166,284	159,702
Psychology	52,400	51,545	53,318	54,711	56,576	58,089	59,416	59,761	60,763	60,729	60,764	62,207	65,837	68,542	68,565	66,908
Social sciences	75,585	75,346	77,881	84,150	88,305	91,399	93,288	94,171	96,291	97,111	97,734	100,315	101,218	100,283	97,719	92,794
Anthropology	5,378	5,222	5,380	5,593	5,498	5,586	5,784	5,652	6,134	6,388	6,488	6,658	7,428	7,662	7,307	6,426
Area and ethnic studies	2,940	2,937	3,069	2,948	3,180	3,240	3,374	3,456	3,611	3,687	3,571	3,512	3,431	3,386	3,041	2,792
Economics	12,102	12,414	13,371	14,299	14,656	14,720	14,427	14,496	15,501	16,205	16,386	16,466	15,758	15,600	16,295	17,324
History of science	58	57	60	68	100	86	83	73	69	61	69	93	68	74	89	87
Linguistics	439	499	571	598	652	637	771	858	955	909	1,033	1,107	1,270	1,327	1,312	1,286
Political science and public administration	24,931	24,961	26,150	29,565	31,756	33,891	35,058	35,634	35,932	35,254	35,946	36,325	35,991	34,702	33,911	31,940
Sociology	16,561	16,099	15,817	16,283	16,677	17,231	16,963	16,985	16,556	16,413	15,802	15,676	15,866	15,667	15,031	13,762
Other social sciences	13,176	13,157	13,463	14,796	15,786	16,008	16,828	17,017	17,533	18,194	18,439	20,478	21,406	21,865	20,733	19,177
Non-S&E	626,170	622,223	638,289	652,904	670,216	684,636	702,609	720,028	734,254	748,935	755,502	764,331	778,060	784,412	781,481	776,270
Engineering technologies	10,916	10,760	10,925	10,744	10,453	10,634	10,605	11,209	11,260	11,560	11,739	12,153	12,194	11,900	11,386	11,365
Two or more races[c]																
All fields	na	na	na	na	na	na	na	na	na	na	na	19,451	25,473	32,310	43,043	51,507
S&E	na	na	na	na	na	na	na	na	na	na	na	7,168	9,610	12,149	16,956	20,135

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Engineering	na	na	na	na	na	na	na	na	na	na	na	888	1,125	1,422	2,116	2,707
Aerospace	na	na	na	na	na	na	na	na	na	na	na	31	57	73	93	117
Chemical	na	na	na	na	na	na	na	na	na	na	na	98	100	110	192	272
Civil	na	na	na	na	na	na	na	na	na	na	na	164	177	258	312	396
Electrical	na	na	na	na	na	na	na	na	na	na	na	187	215	292	465	556
Industrial	na	na	na	na	na	na	na	na	na	na	na	49	60	50	90	135
Materials	na	na	na	na	na	na	na	na	na	na	na	10	28	26	40	54
Mechanical	na	na	na	na	na	na	na	na	na	na	na	197	284	358	545	724
Other	na	na	na	na	na	na	na	na	na	na	na	152	204	255	379	453
Science	na	na	na	na	na	na	na	na	na	na	na	6,280	8,485	10,727	14,840	17,428
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	2,390	3,274	4,292	6,270	7,750
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	226	378	541	722	830
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	1,142	1,593	2,047	3,030	3,878
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	65	102	116	162	199
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	2	6	13	15	19
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	58	88	97	131	169
Oceanography	na	na	na	na	na	na	na	na	na	na	na	5	8	6	16	11

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	706	892	1,206	1,745	2,173
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	496	655	864	1,238	1,569
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	210	237	342	507	604
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	251	309	382	611	670
Astronomy	na	na	na	na	na	na	na	na	na	na	na	8	6	10	18	15
Chemistry	na	na	na	na	na	na	na	na	na	na	na	152	208	250	397	422
Physics	na	na	na	na	na	na	na	na	na	na	na	82	86	109	178	217
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	9	9	13	18	16
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	3,890	5,211	6,435	8,570	9,678
Psychology	na	na	na	na	na	na	na	na	na	na	na	1,488	1,919	2,412	3,319	3,817
Social sciences	na	na	na	na	na	na	na	na	na	na	na	2,402	3,292	4,023	5,251	5,861
Anthropology	na	na	na	na	na	na	na	na	na	na	na	192	291	360	497	460
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	216	244	312	340	343
Economics	na	na	na	na	na	na	na	na	na	na	na	356	435	504	691	917
History of science	na	na	na	na	na	na	na	na	na	na	na	4	5	4	4	5
Linguistics	na	na	na	na	na	na	na	na	na	na	na	40	52	61	102	118

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	772	1,131	1,312	1,670	1,848
Sociology	na	na	na	na	na	na	na	na	na	na	na	443	576	733	943	1,049
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	379	558	737	1,004	1,121
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	12,283	15,863	20,161	26,087	31,372
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	145	191	216	298	442
Other or unknown race and ethnicity																
All fields	42,419	48,754	57,722	66,907	77,865	82,265	86,624	90,834	97,431	103,691	118,368	114,011	114,304	105,490	96,143	91,734
S&E	13,930	15,833	18,235	21,635	24,973	26,305	26,743	27,834	29,805	31,547	36,745	34,352	35,230	32,010	28,813	26,961
Engineering	1,610	1,884	2,100	2,509	2,621	2,827	2,949	3,008	3,323	3,596	4,119	4,048	3,512	3,397	3,303	3,045
Aerospace	35	50	61	80	115	80	126	133	145	149	173	160	125	107	101	78
Chemical	119	156	155	206	162	153	174	194	230	240	305	276	313	293	357	278
Civil	239	265	269	329	360	389	434	470	573	652	763	845	597	629	540	461
Electrical	560	674	764	937	1,013	1,027	982	906	884	934	1,037	903	768	752	799	756
Industrial	69	84	101	109	100	148	107	111	119	128	193	208	147	141	149	147
Materials	36	27	36	52	47	49	29	45	67	76	56	55	76	38	54	44
Mechanical	358	431	485	514	558	647	721	731	846	876	1,008	1,045	940	908	918	870
Other	194	197	229	282	266	334	376	418	459	541	584	556	546	529	385	411
Science	12,320	13,949	16,135	19,126	22,352	23,478	23,794	24,826	26,482	27,951	32,626	30,304	31,718	28,613	25,510	23,916

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Natural sciences	5,143	5,977	7,077	8,551	10,422	10,310	10,405	10,417	11,056	11,510	13,314	12,568	13,045	12,234	11,245	10,705
Agricultural sciences	603	620	684	738	713	730	789	863	884	1,016	1,220	1,295	1,262	1,199	1,133	1,029
Biological sciences	2,020	2,149	2,390	2,592	2,797	3,041	3,341	3,831	4,329	4,597	5,433	4,860	4,859	4,740	4,159	4,030
Earth, atmospheric, and ocean sciences	121	149	166	174	203	183	222	199	249	261	274	299	252	244	227	240
Atmospheric sciences	8	23	23	26	16	26	24	20	26	23	26	31	23	27	18	20
Earth sciences	110	125	140	145	184	151	190	177	217	229	243	261	225	209	204	219
Oceanography	3	1	3	3	3	6	8	2	6	9	5	7	4	8	5	1
Mathematics and computer sciences	1,949	2,551	3,251	4,412	6,045	5,619	5,191	4,572	4,540	4,682	5,191	4,974	5,556	5,048	4,911	4,626
Computer sciences	1,556	2,099	2,762	3,808	5,378	4,879	4,381	3,742	3,641	3,682	4,085	4,046	4,621	4,147	4,105	3,814
Mathematics and statistics	393	452	489	604	667	740	810	830	899	1,000	1,106	928	935	901	806	812
Physical sciences	450	508	586	635	664	737	862	952	1,054	954	1,196	1,140	1,116	1,003	815	780
Astronomy	6	10	17	11	17	32	25	33	21	34	36	16	27	13	15	12
Chemistry	280	311	340	346	384	387	492	554	626	573	705	620	637	617	509	480
Physics	152	163	196	250	240	289	308	344	373	312	411	347	367	326	261	257
Other physical sciences	12	24	33	28	23	29	37	21	34	35	44	157	85	47	30	31

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Social and behavioral sciences	7,177	7,972	9,058	10,575	11,930	13,168	13,389	14,409	15,426	16,441	19,312	17,736	18,673	16,379	14,265	13,211
Psychology	2,587	2,846	3,384	3,607	3,838	4,238	4,320	4,716	5,028	5,576	6,831	5,823	6,272	5,471	4,830	4,827
Social sciences	4,590	5,126	5,674	6,968	8,092	8,930	9,069	9,693	10,398	10,865	12,481	11,913	12,401	10,908	9,435	8,384
Anthropology	404	424	495	558	620	621	639	680	777	722	855	739	773	641	504	406
Area and ethnic studies	282	297	329	372	436	468	483	499	511	569	596	450	525	412	274	247
Economics	742	865	960	1,204	1,288	1,414	1,325	1,419	1,582	1,734	1,952	2,016	1,761	1,490	1,329	1,338
History of science	11	15	10	6	11	8	9	12	12	13	18	7	6	10	4	4
Linguistics	56	41	56	79	109	114	113	131	123	156	192	139	153	143	106	126
Political science and public administration	1,424	1,597	1,810	2,364	2,865	3,319	3,537	3,580	3,947	3,994	4,870	4,453	4,685	4,082	3,494	3,020
Sociology	867	984	1,068	1,183	1,307	1,471	1,414	1,639	1,600	1,659	1,947	1,653	1,574	1,391	1,182	1,147
Other social sciences	804	903	946	1,202	1,456	1,515	1,549	1,733	1,846	2,018	2,051	2,456	2,924	2,739	2,542	2,096
Non-S&E	28,489	32,921	39,487	45,272	52,892	55,960	59,881	63,000	67,626	72,144	81,623	79,659	79,074	73,480	67,330	64,773
Engineering technologies	582	630	721	712	690	868	879	888	982	1,029	1,038	1,055	1,121	951	999	933
Temporary visa holder																
All fields	39,104	39,843	41,508	43,264	44,844	45,399	46,405	45,964	44,406	45,934	47,598	52,694	59,610	64,901	69,483	75,639
S&E	15,195	15,721	16,344	17,898	18,825	18,559	18,254	17,393	16,526	17,055	18,231	20,798	23,882	26,523	29,304	32,639
Engineering	4,532	4,419	4,266	4,277	4,550	4,740	4,711	4,389	4,180	4,071	4,502	5,251	6,331	6,747	7,556	8,555

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aerospace	121	148	122	160	174	171	147	175	151	178	217	245	267	273	296	272
Chemical	445	424	447	359	368	411	436	430	464	518	592	764	899	1,003	1,063	1,170
Civil	458	412	371	349	315	327	342	326	373	368	495	559	709	803	950	1,062
Electrical	1,836	1,842	1,868	2,054	2,276	2,321	2,176	1,879	1,589	1,425	1,419	1,699	1,999	2,016	2,161	2,510
Industrial	481	475	442	402	381	395	428	375	406	369	433	446	581	584	684	756
Materials	37	42	29	31	29	40	46	49	45	64	62	70	80	120	149	162
Mechanical	789	744	683	596	614	647	650	713	714	715	801	880	1,119	1,259	1,470	1,755
Other	365	332	304	326	393	428	486	442	438	434	483	588	677	689	783	868
Science	10,663	11,302	12,078	13,621	14,275	13,819	13,543	13,004	12,346	12,984	13,729	15,547	17,551	19,776	21,748	24,084
Natural sciences	5,591	6,120	6,682	7,864	8,283	7,741	7,133	6,558	5,967	6,208	6,624	7,509	8,580	9,598	10,373	11,586
Agricultural sciences	258	248	262	270	251	274	266	282	228	243	289	342	374	515	569	604
Biological sciences	1,376	1,436	1,455	1,538	1,651	1,967	2,119	2,333	2,330	2,429	2,555	2,781	2,870	3,040	2,919	3,035
Earth, atmospheric, and ocean sciences	46	49	59	57	50	80	76	58	70	82	104	122	116	181	226	219
Atmospheric sciences	8	2	6	8	3	10	5	9	5	8	6	5	9	16	15	13
Earth sciences	33	46	49	48	45	65	65	47	64	74	96	117	104	162	207	206
Oceanography	5	1	4	1	2	5	6	2	1	0	2	0	3	3	4	0
Mathematics and computer sciences	3,379	3,831	4,363	5,476	5,740	4,752	3,908	3,143	2,566	2,658	2,875	3,384	4,255	4,774	5,522	6,503
Computer sciences	2,900	3,405	3,909	4,854	5,060	3,991	3,099	2,433	1,804	1,819	1,867	2,028	2,365	2,382	2,819	3,369

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mathematics and statistics	479	426	454	622	680	761	809	710	762	839	1,008	1,356	1,890	2,392	2,703	3,134
Physical sciences	532	556	543	523	591	668	764	742	773	796	801	880	965	1,088	1,137	1,225
Astronomy	4	13	16	15	10	20	13	13	16	13	13	16	8	12	28	16
Chemistry	344	335	342	326	350	397	466	451	468	529	547	573	599	693	745	762
Physics	160	180	166	168	189	200	243	223	229	209	207	255	326	349	331	414
Other physical sciences	24	28	19	14	42	51	42	55	60	45	34	36	32	34	33	33
Social and behavioral sciences	5,072	5,182	5,396	5,757	5,992	6,078	6,410	6,446	6,379	6,776	7,105	8,038	8,971	10,178	11,375	12,498
Psychology	1,264	1,283	1,369	1,394	1,475	1,503	1,580	1,559	1,474	1,608	1,694	1,676	2,004	2,229	2,460	2,557
Social sciences	3,808	3,899	4,027	4,363	4,517	4,575	4,830	4,887	4,905	5,168	5,411	6,362	6,967	7,949	8,915	9,941
Anthropology	116	120	114	94	106	115	123	110	124	100	118	98	122	105	151	137
Area and ethnic studies	178	164	158	160	164	163	175	199	171	235	197	210	230	198	254	243
Economics	1,691	1,823	1,903	2,046	2,169	2,199	2,136	2,134	2,198	2,381	2,718	3,323	3,785	4,539	5,164	5,907
History of science	1	3	2	3	0	1	3	4	1	1	1	1	1	2	3	2
Linguistics	83	77	81	80	74	77	74	59	85	78	75	85	105	90	97	108
Political science and public administration	1,152	1,149	1,167	1,286	1,307	1,269	1,479	1,417	1,452	1,461	1,473	1,701	1,672	1,802	1,850	1,993
Sociology	299	258	295	349	327	329	390	398	365	356	367	371	439	485	547	584
Other social sciences	288	305	307	345	370	422	450	566	509	556	462	573	613	728	849	967
Non-S&E	23,909	24,122	25,164	25,366	26,019	26,840	28,151	28,571	27,880	28,879	29,367	31,896	35,728	38,378	40,179	43,000

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Engineering technologies	443	543	466	459	516	488	378	379	371	445	428	450	516	646	663	885

na = not applicable; data were not collected for this detail.

[a] Beginning in 2008, the category includes Hispanic or one or more races.

[b] Pacific Islander includes Native Hawaiian or Other Pacific Islander.

[c] In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race for the years after 2011 is likely to be an undercount.

Note(s)

Racial and ethnic breakouts include U.S. citizens and permanent residents only; temporary visa holder includes all racial and ethnic groups. Engineering technologies are focused more on applied skills than on fundamental science and mathematics. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data from *Science and Engineering Indicators 2008* and earlier years that were based on accredited higher education institutions.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

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APPENDIX TABLE 2-23

S&E graduate enrollment, by field: 2000–15

(Number)

Field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
S&E	493,311	509,607	540,404	567,121	574,463	582,226	597,643	604,815	613,591	611,629	611,841	608,171	609,760	615,706	648,525	667,939
Engineering	104,112	109,493	119,668	127,377	123,566	120,565	123,041	127,075	131,951	137,873	142,446	143,390	146,022	150,873	162,671	167,789
Aerospace	3,407	3,451	3,685	4,048	4,089	4,170	4,482	4,616	4,902	5,266	5,540	5,691	5,069	5,181	5,116	5,345
Chemical	7,056	6,913	7,414	7,516	7,452	7,173	7,261	7,584	7,892	8,188	8,668	8,828	9,222	9,698	9,870	10,008
Civil	16,451	16,665	17,713	18,890	18,561	18,114	17,802	16,071	16,931	18,638	19,559	19,596	19,922	20,110	20,789	20,978
Electrical	33,611	36,100	39,948	41,763	38,995	37,450	38,265	40,588	41,164	41,218	41,336	41,580	42,347	45,562	51,909	52,940
Industrial	12,119	12,940	14,033	14,313	13,852	13,650	13,829	14,474	15,692	15,825	15,205	14,494	14,469	14,363	14,845	16,284
Materials	4,377	4,721	4,992	5,131	5,059	5,160	5,268	5,314	5,539	5,863	6,274	6,649	6,985	7,144	7,518	7,741
Mechanical	15,235	15,852	17,139	18,393	17,852	17,373	17,919	18,347	19,585	21,243	22,509	21,883	23,088	24,087	25,651	27,314
Other	11,856	12,851	14,744	17,323	17,706	17,475	18,215	20,081	20,246	21,632	23,355	24,669	24,920	24,728	26,973	27,179
Science	389,199	400,114	420,736	439,744	450,897	461,661	474,602	477,740	481,640	473,756	469,395	464,781	463,738	464,833	485,854	500,150
Natural sciences	255,406	263,978	279,369	292,453	299,439	304,952	314,602	310,489	313,706	303,195	298,812	292,097	295,414	297,561	324,083	339,566
Agricultural sciences	12,023	12,235	12,698	13,197	13,445	13,123	13,016	13,528	14,153	15,200	15,656	16,129	16,234	16,429	17,505	18,610
Biological sciences[c]	56,282	57,639	61,088	64,701	66,565	68,479	69,941	73,516	74,678	75,660	77,726	79,540	80,994	81,444	83,413	85,098
Earth, atmospheric, and ocean sciences	13,941	13,841	14,240	14,620	15,131	14,836	14,920	14,100	14,389	14,839	15,655	15,820	16,069	15,816	15,710	15,447
Atmospheric sciences	963	924	1,036	1,150	1,086	1,146	1,079	1,178	1,400	1,355	1,455	1,513	1,546	1,534	1,466	1,387

Field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Earth sciences	6,596	6,544	6,712	6,889	7,358	7,212	7,177	7,020	7,089	7,539	8,251	8,361	8,659	8,754	8,821	8,876
Oceanography	2,668	2,585	2,618	2,695	2,801	2,760	2,770	2,615	2,634	2,633	2,556	2,680	2,642	2,682	2,666	2,574
Other geosciences	3,714	3,788	3,874	3,886	3,886	3,718	3,894	3,287	3,266	3,312	3,393	3,266	3,222	2,846	2,757	2,610
Mathematics and computer sciences	63,000	68,847	73,432	73,161	69,947	68,188	68,468	69,221	70,953	73,387	74,682	75,035	76,364	81,143	102,420	112,636
Computer sciences	47,350	52,196	55,269	53,696	50,016	47,978	47,653	48,246	49,553	51,161	51,546	51,234	51,789	56,339	76,546	86,192
Mathematics and statistics	15,650	16,651	18,163	19,465	19,931	20,210	20,815	20,975	21,400	22,226	23,136	23,801	24,575	24,804	25,874	26,444
Medical and other health sciences	79,775	80,378	85,570	92,476	98,590	103,951	111,356	103,300	102,214	85,960	76,120	65,879	65,825	62,710	64,703	67,389
Medical sciences	22,815	24,012	26,841	29,440	29,762	31,223	33,437	31,876	32,311	32,508	33,862	34,348	34,555	34,332	35,323	36,978
Other health sciences[d]	56,960	56,366	58,729	63,036	68,828	72,728	77,919	71,424	69,903	53,452	42,258	31,531	31,270	28,378	29,380	30,411
Physical sciences	30,385	31,038	32,341	34,298	35,761	36,375	36,901	36,824	37,319	38,149	38,973	39,694	39,928	40,019	40,332	40,386
Astronomy	888	916	990	1,080	1,119	1,191	1,211	1,232	1,275	1,409	1,331	1,345	1,278	1,250	1,241	1,273
Chemistry	18,105	18,366	19,045	20,049	20,776	21,101	21,351	21,298	21,574	22,094	22,436	22,802	23,117	22,949	22,936	22,840
Physics	10,841	11,248	11,701	12,555	13,298	13,472	13,722	13,816	13,862	14,060	14,507	14,829	14,940	15,239	15,564	15,609
Other physical sciences	551	508	605	614	568	611	617	478	608	586	699	718	593	581	591	664
Social and behavioral sciences	133,793	136,136	141,367	147,291	151,458	156,709	160,000	162,767	162,375	164,004	162,639	166,147	162,286	161,380	154,575	152,446
Psychology[d]	50,466	50,454	51,152	52,162	54,126	57,282	57,653	59,617	58,991	56,184	53,419	54,486	54,117	54,102	48,833	49,740
Social sciences	83,327	85,682	90,215	95,129	97,332	99,427	102,347	103,150	103,384	107,820	109,220	111,661	108,169	107,278	105,742	102,706
Anthropology	7,626	7,491	7,481	7,789	7,826	7,750	8,150	8,129	8,333	8,359	8,528	8,406	8,247	8,172	7,955	7,625
Economics	12,827	13,569	14,196	14,634	14,513	13,932	14,290	14,586	15,103	16,215	16,497	17,015	17,004	16,735	16,535	16,355

Field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
History of science	532	571	663	737	994	965	968	1,054	1,177	1,006	705	597	508	391	371	379
Linguistics	2,674	2,744	2,875	3,028	2,941	3,187	3,074	2,879	3,095	3,170	3,132	3,219	3,256	3,509	3,489	3,370
Political science and public administration	31,131	31,805	34,934	36,880	39,023	40,780	41,784	41,349	40,871	43,919	45,045	49,660	48,855	48,411	47,370	45,781
Sociology	9,397	9,620	9,665	9,900	9,713	9,866	9,872	10,324	10,655	10,307	10,212	9,959	9,157	9,188	8,834	8,479
Other social sciences	19,140	19,882	20,401	22,161	22,322	22,947	24,209	24,829	24,150	24,844	25,101	22,805	21,142	20,872	21,188	20,717
Multidisciplinary and interdisciplinary studies	ne	ne	ne	ne	ne	ne	ne	4,484	5,559	6,557	7,944	6,537	6,038	5,892	7,196	8,138

ne = not eligible; data were not collected for this field before 2007.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. Because of methodological changes, counts should be used with caution for trend analysis. For more details, see appendix A in https://www.nsf.gov/statistics/nsf10307/.

[b] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed U.S. academic institutions with master's- or doctorate-granting programs in science, engineering, or health. For more details on the impact of the frame update, see https://www.nsf.gov/statistics/2016/nsf16314/.

[c] Starting in 2007, includes neuroscience, which may have been reported under other fields in prior years.

[d] Beginning with 2008, more rigorous follow-up was done in recent years with institutions regarding the exclusion of practitioner-oriented graduate degree programs in psychology and in other health sciences (a subfield of health). This change may affect interpretation of trends in these fields.

Note(s)

S&E includes health fields (medical sciences and other health sciences) and excludes newly eligible fields (architecture, communication, and family and consumer sciences and human sciences) added starting in 2007. Therefore, the S&E numbers in this table differ from the data used in National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering (annual series), and elsewhere. The survey changes in 2007 and 2014 may affect interpretation of trends.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS).

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APPENDIX TABLE 2-24

First-time full-time S&E graduate students, by citizenship and field: 2000–15

(Number)

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
All citizenships																
S&E	94,340	98,112	104,184	107,715	106,544	110,219	116,482	118,893	126,165	129,731	131,394	132,441	133,962	139,550	150,261	157,868
Engineering	22,191	23,306	24,607	24,429	22,025	22,373	25,876	26,732	28,613	30,230	31,540	32,355	33,703	36,805	41,156	41,474
Aerospace	775	767	712	845	834	804	943	962	1,116	1,176	1,196	1,239	991	1,138	1,238	1,261
Chemical	1,595	1,541	1,616	1,600	1,392	1,293	1,429	1,566	1,713	1,910	2,047	2,039	2,216	2,433	2,408	2,527
Civil	3,840	3,820	4,107	4,363	4,175	4,057	4,198	3,662	4,073	4,878	5,079	5,003	5,119	5,127	5,411	5,162
Electrical	7,195	7,882	8,221	7,834	6,633	6,987	8,668	8,920	9,042	8,831	9,237	9,790	10,439	12,387	14,097	13,593
Industrial	2,005	2,216	2,238	2,029	1,724	1,674	2,148	2,626	3,015	2,908	2,783	2,837	2,767	3,047	3,710	4,269
Materials	1,005	975	1,044	958	926	992	1,043	1,086	1,170	1,302	1,431	1,561	1,609	1,571	1,630	1,761
Mechanical	3,269	3,583	3,709	3,476	3,129	3,225	3,734	3,937	4,297	4,814	5,055	4,832	5,344	5,843	6,428	6,794
Other	2,507	2,522	2,960	3,324	3,212	3,341	3,713	3,973	4,187	4,411	4,712	5,054	5,218	5,259	6,234	6,107
Science	72,149	74,806	79,577	83,286	84,519	87,846	90,606	91,390	96,412	98,089	98,095	98,702	98,885	101,505	107,414	114,359
Natural sciences	49,626	51,215	54,124	55,791	56,655	58,228	60,076	60,985	64,066	63,707	64,457	64,614	65,362	68,397	75,653	81,489
Agricultural sciences	2,335	2,338	2,320	2,424	2,316	2,260	2,206	2,356	2,597	2,994	3,121	3,053	3,040	3,128	3,364	3,637
Biological sciences[c]	10,955	11,608	12,127	12,719	12,796	12,918	13,055	14,022	14,832	15,838	16,543	17,327	17,919	17,336	18,021	19,474
Earth, atmospheric, and ocean sciences	2,649	2,794	3,085	3,104	2,926	2,758	2,795	2,749	2,904	3,153	3,445	3,408	3,451	3,382	3,441	3,321

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Atmospheric sciences	222	205	213	268	228	228	207	243	263	250	279	266	300	291	302	281
Earth sciences	1,230	1,383	1,437	1,412	1,336	1,308	1,348	1,405	1,429	1,682	1,887	1,839	1,868	1,940	1,983	1,937
Oceanography	479	511	533	567	534	463	457	402	466	517	502	520	481	476	499	540
Other geosciences	718	695	902	857	828	759	783	699	746	704	777	783	802	675	657	563
Mathematics and computer sciences	11,850	12,763	12,955	12,319	12,035	12,454	13,325	13,688	15,025	15,445	15,776	16,589	17,426	21,408	27,044	29,619
Computer sciences	8,431	9,077	9,037	8,134	7,783	8,258	8,983	9,256	10,434	10,557	10,583	10,995	11,688	15,397	20,658	22,911
Mathematics and statistics	3,419	3,686	3,918	4,185	4,252	4,196	4,342	4,432	4,591	4,888	5,193	5,594	5,738	6,011	6,386	6,708
Medical and other health sciences	16,008	15,701	17,357	18,384	19,979	21,181	22,069	21,459	21,816	19,001	17,995	16,475	15,911	15,601	16,436	17,629
Medical sciences	5,127	5,361	5,780	6,034	6,525	6,644	7,096	6,870	7,753	7,714	7,962	8,014	7,800	8,022	8,415	9,079
Other health sciences[d]	10,881	10,340	11,577	12,350	13,454	14,537	14,973	14,589	14,063	11,287	10,033	8,461	8,111	7,579	8,021	8,550
Physical sciences	5,829	6,011	6,280	6,841	6,603	6,657	6,626	6,711	6,892	7,276	7,577	7,762	7,615	7,542	7,347	7,809
Astronomy	183	193	194	225	210	190	204	207	225	250	234	267	235	210	206	238
Chemistry	3,482	3,651	3,746	3,983	3,862	3,904	3,900	3,938	4,161	4,331	4,557	4,585	4,487	4,429	4,261	4,480
Physics	2,101	2,102	2,231	2,543	2,442	2,458	2,409	2,523	2,406	2,571	2,663	2,766	2,783	2,761	2,734	2,938
Other physical sciences	63	65	109	90	89	105	113	43	100	124	123	144	110	142	146	153
Social and behavioral sciences	22,523	23,591	25,453	27,495	27,864	29,618	30,530	30,405	32,346	34,382	33,638	34,088	33,523	33,108	31,761	32,870
Psychology[d]	7,545	7,691	8,420	8,858	9,478	10,358	10,224	10,476	11,082	10,980	10,231	10,218	10,455	10,467	9,839	10,669
Social sciences	14,978	15,900	17,033	18,637	18,386	19,260	20,306	19,929	21,264	23,402	23,407	23,870	23,068	22,641	21,922	22,201
Anthropology	1,157	1,119	1,177	1,279	1,187	1,243	1,314	1,310	1,444	1,452	1,454	1,407	1,459	1,436	1,401	1,279

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Economics	2,963	3,058	3,418	3,457	3,209	3,281	3,450	3,670	3,836	4,465	4,436	4,573	4,520	4,345	4,436	4,458
History of science	78	72	97	107	107	138	121	151	205	119	94	85	78	53	64	66
Linguistics	454	495	466	588	570	633	577	535	557	632	645	680	709	707	691	665
Political science and public administration	5,142	5,562	6,241	6,950	7,333	7,807	8,319	7,627	8,152	9,736	9,637	10,618	10,277	10,152	9,553	9,810
Sociology	1,464	1,591	1,690	1,722	1,537	1,672	1,504	1,730	1,888	1,761	1,729	1,783	1,597	1,567	1,596	1,553
Other social sciences	3,720	4,003	3,944	4,534	4,443	4,486	5,021	4,906	5,182	5,237	5,412	4,724	4,428	4,381	4,181	4,370
Multidisciplinary and interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	771	1,140	1,412	1,759	1,384	1,374	1,240	1,691	2,035
U.S. citizen or permanent resident																
S&E	61,021	62,396	70,346	76,478	77,169	79,531	81,142	81,033	84,230	88,183	89,174	86,686	84,860	83,542	83,698	87,677
Engineering	8,603	8,668	10,749	12,263	11,188	10,905	11,747	11,053	11,767	13,749	14,638	13,896	13,158	13,116	13,103	12,925
Aerospace	374	348	396	536	537	508	616	592	707	753	810	801	621	685	716	705
Chemical	651	616	760	852	733	624	684	695	711	927	1,002	910	934	995	936	1,026
Civil	2,009	1,989	2,250	2,595	2,591	2,492	2,650	2,188	2,335	3,017	3,124	2,905	2,697	2,471	2,355	2,068
Electrical	1,901	1,985	2,679	3,127	2,458	2,430	2,305	2,129	2,223	2,295	2,416	2,346	2,119	2,137	2,063	2,097
Industrial	596	590	781	832	755	690	933	901	1,030	1,121	1,042	995	805	886	877	826
Materials	413	410	502	479	454	482	545	514	534	592	721	684	725	706	683	729
Mechanical	1,231	1,373	1,681	1,843	1,684	1,668	1,889	1,854	1,959	2,477	2,664	2,360	2,394	2,415	2,488	2,415
Other	1,428	1,357	1,700	1,999	1,976	2,011	2,125	2,180	2,268	2,567	2,859	2,895	2,863	2,821	2,985	3,059
Science	52,418	53,728	59,597	64,215	65,981	68,626	69,395	69,396	71,604	73,303	73,151	71,714	70,648	69,497	69,457	73,470

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Natural sciences	34,659	34,988	39,006	41,645	42,752	43,728	44,112	44,138	45,010	44,896	45,485	44,122	44,052	43,285	44,812	47,866
Agricultural sciences	1,916	1,845	1,856	1,971	1,870	1,828	1,764	1,848	1,996	2,359	2,513	2,357	2,345	2,394	2,572	2,795
Biological sciences[c]	8,355	8,768	9,261	9,763	9,808	9,925	9,946	10,687	11,129	12,159	12,890	13,380	14,101	13,654	14,248	15,425
Earth, atmospheric, and ocean sciences	2,082	2,210	2,548	2,573	2,468	2,270	2,289	2,271	2,306	2,533	2,804	2,712	2,728	2,640	2,637	2,589
Atmospheric sciences	147	140	157	220	186	172	170	195	209	199	223	209	228	214	221	211
Earth sciences	986	1,091	1,179	1,129	1,102	1,073	1,068	1,139	1,119	1,323	1,511	1,415	1,442	1,505	1,498	1,519
Oceanography	374	426	447	485	476	376	380	345	382	424	407	435	394	389	420	467
Other geosciences	575	553	765	739	704	649	671	592	596	587	663	653	664	532	498	392
Mathematics and computer sciences	4,263	4,651	5,845	6,418	6,264	6,193	5,904	5,595	5,872	6,467	6,594	6,402	6,172	6,225	6,469	6,917
Computer sciences	2,414	2,621	3,534	3,891	3,632	3,632	3,382	3,034	3,324	3,659	3,582	3,339	3,279	3,303	3,682	4,126
Mathematics and statistics	1,849	2,030	2,311	2,527	2,632	2,561	2,522	2,561	2,548	2,808	3,012	3,063	2,893	2,922	2,787	2,791
Medical and other health sciences	14,720	14,189	15,721	16,829	18,316	19,374	20,164	19,648	19,719	16,954	16,105	14,643	14,113	13,723	14,439	15,533
Medical sciences	4,248	4,302	4,640	4,982	5,372	5,455	5,836	5,614	6,285	6,186	6,554	6,554	6,352	6,524	6,879	7,435
Other health sciences[d]	10,472	9,887	11,081	11,847	12,944	13,919	14,328	14,034	13,434	10,768	9,551	8,089	7,761	7,199	7,560	8,098
Physical sciences	3,323	3,325	3,775	4,091	4,026	4,138	4,045	4,089	3,988	4,424	4,579	4,628	4,593	4,649	4,447	4,607
Astronomy	123	135	137	150	145	144	142	136	146	191	169	178	174	161	156	168
Chemistry	2,151	2,125	2,292	2,438	2,391	2,461	2,405	2,434	2,453	2,683	2,777	2,765	2,786	2,772	2,663	2,725
Physics	1,009	1,025	1,270	1,442	1,416	1,439	1,406	1,487	1,315	1,455	1,547	1,580	1,558	1,625	1,536	1,620
Other physical sciences	40	40	76	61	74	94	92	32	74	95	86	105	75	91	92	94

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Social and behavioral sciences	17,759	18,740	20,591	22,570	23,229	24,898	25,283	25,258	26,594	28,407	27,666	27,592	26,596	26,212	24,645	25,604
Psychology[d]	7,060	7,167	7,902	8,285	8,944	9,800	9,645	9,861	10,407	10,347	9,570	9,535	9,750	9,784	9,128	9,884
Social sciences	10,699	11,573	12,689	14,285	14,285	15,098	15,638	15,397	16,187	18,060	18,096	18,057	16,846	16,428	15,517	15,720
Anthropology	996	985	1,028	1,142	1,068	1,131	1,170	1,149	1,280	1,325	1,295	1,252	1,300	1,284	1,224	1,107
Economics	1,207	1,275	1,559	1,694	1,589	1,594	1,634	1,731	1,756	2,213	2,164	2,098	1,915	1,757	1,707	1,752
History of science	65	62	90	95	97	115	109	140	183	106	78	69	62	47	47	50
Linguistics	257	294	305	405	381	440	417	370	361	419	441	468	470	462	448	420
Political science and public administration	3,870	4,291	4,949	5,561	5,974	6,475	6,670	6,206	6,584	7,926	7,898	8,616	8,075	7,995	7,353	7,520
Sociology	1,205	1,311	1,440	1,501	1,357	1,474	1,339	1,513	1,689	1,531	1,508	1,559	1,367	1,318	1,355	1,316
Other social sciences	3,099	3,355	3,318	3,887	3,819	3,869	4,299	4,288	4,334	4,540	4,712	3,995	3,657	3,565	3,383	3,555
Multidisciplinary and interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	584	859	1,131	1,385	1,076	1,054	929	1,138	1,282
Temporary visa holder																
S&E	33,319	35,716	33,838	31,237	29,375	30,688	35,340	37,860	41,935	41,548	42,220	45,755	49,102	56,008	66,563	70,191
Engineering	13,588	14,638	13,858	12,166	10,837	11,468	14,129	15,679	16,846	16,481	16,902	18,459	20,545	23,689	28,053	28,549
Aerospace	401	419	316	309	297	296	327	370	409	423	386	438	370	453	522	556
Chemical	944	925	856	748	659	669	745	871	1,002	983	1,045	1,129	1,282	1,438	1,472	1,501
Civil	1,831	1,831	1,857	1,768	1,584	1,565	1,548	1,474	1,738	1,861	1,955	2,098	2,422	2,656	3,056	3,094
Electrical	5,294	5,897	5,542	4,707	4,175	4,557	6,363	6,791	6,819	6,536	6,821	7,444	8,320	10,250	12,034	11,496
Industrial	1,409	1,626	1,457	1,197	969	984	1,215	1,725	1,985	1,787	1,741	1,842	1,962	2,161	2,833	3,443

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Materials	592	565	542	479	472	510	498	572	636	710	710	877	884	865	947	1,032
Mechanical	2,038	2,210	2,028	1,633	1,445	1,557	1,845	2,083	2,338	2,337	2,391	2,472	2,950	3,428	3,940	4,379
Other	1,079	1,165	1,260	1,325	1,236	1,330	1,588	1,793	1,919	1,844	1,853	2,159	2,355	2,438	3,249	3,048
Science	19,731	21,078	19,980	19,071	18,538	19,220	21,211	22,194	24,808	24,786	24,944	26,988	28,237	32,008	37,957	40,889
Natural sciences	14,967	16,227	15,118	14,146	13,903	14,500	15,964	16,847	19,056	18,811	18,972	20,492	21,310	25,112	30,841	33,623
Agricultural sciences	419	493	464	453	446	432	442	508	601	635	608	696	695	734	792	842
Biological sciences[c]	2,600	2,840	2,866	2,956	2,988	2,993	3,109	3,335	3,703	3,679	3,653	3,947	3,818	3,682	3,773	4,049
Earth, atmospheric, and ocean sciences	567	584	537	531	458	488	506	478	598	620	641	696	723	742	804	732
Atmospheric sciences	75	65	56	48	42	56	37	48	54	51	56	57	72	77	81	70
Earth sciences	244	292	258	283	234	235	280	266	310	359	376	424	426	435	485	418
Oceanography	105	85	86	82	58	87	77	57	84	93	95	85	87	87	79	73
Other geosciences	143	142	137	118	124	110	112	107	150	117	114	130	138	143	159	171
Mathematics and computer sciences	7,587	8,112	7,110	5,901	5,771	6,261	7,421	8,093	9,153	8,978	9,182	10,187	11,254	15,183	20,575	22,702
Computer sciences	6,017	6,456	5,503	4,243	4,151	4,626	5,601	6,222	7,110	6,898	7,001	7,656	8,409	12,094	16,976	18,785
Mathematics and statistics	1,570	1,656	1,607	1,658	1,620	1,635	1,820	1,871	2,043	2,080	2,181	2,531	2,845	3,089	3,599	3,917
Medical and other health sciences	1,288	1,512	1,636	1,555	1,663	1,807	1,905	1,811	2,097	2,047	1,890	1,832	1,798	1,878	1,997	2,096
Medical sciences	879	1,059	1,140	1,052	1,153	1,189	1,260	1,256	1,468	1,528	1,408	1,460	1,448	1,498	1,536	1,644
Other health sciences[d]	409	453	496	503	510	618	645	555	629	519	482	372	350	380	461	452
Physical sciences	2,506	2,686	2,505	2,750	2,577	2,519	2,581	2,622	2,904	2,852	2,998	3,134	3,022	2,893	2,900	3,202

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Astronomy	60	58	57	75	65	46	62	71	79	59	65	89	61	49	50	70
Chemistry	1,331	1,526	1,454	1,545	1,471	1,443	1,495	1,504	1,708	1,648	1,780	1,820	1,701	1,657	1,598	1,755
Physics	1,092	1,077	961	1,101	1,026	1,019	1,003	1,036	1,091	1,116	1,116	1,186	1,225	1,136	1,198	1,318
Other physical sciences	23	25	33	29	15	11	21	11	26	29	37	39	35	51	54	59
Social and behavioral sciences	4,764	4,851	4,862	4,925	4,635	4,720	5,247	5,147	5,752	5,975	5,972	6,496	6,927	6,896	7,116	7,266
Psychology[d]	485	524	518	573	534	558	579	615	675	633	661	683	705	683	711	785
Social sciences	4,279	4,327	4,344	4,352	4,101	4,162	4,668	4,532	5,077	5,342	5,311	5,813	6,222	6,213	6,405	6,481
Anthropology	161	134	149	137	119	112	144	161	164	127	159	155	159	152	177	172
Economics	1,756	1,783	1,859	1,763	1,620	1,687	1,816	1,939	2,080	2,252	2,272	2,475	2,605	2,588	2,729	2,706
History of science	13	10	7	12	10	23	12	11	22	13	16	16	16	6	17	16
Linguistics	197	201	161	183	189	193	160	165	196	213	204	212	239	245	243	245
Political science and public administration	1,272	1,271	1,292	1,389	1,359	1,332	1,649	1,421	1,568	1,810	1,739	2,002	2,202	2,157	2,200	2,290
Sociology	259	280	250	221	180	198	165	217	199	230	221	224	230	249	241	237
Other social sciences	621	648	626	647	624	617	722	618	848	697	700	729	771	816	798	815
Multidisciplinary and interdisciplinary studies	ne	ne	ne	ne	ne	ne	ne	187	281	281	374	308	320	311	553	753

NA = not available; ne = not eligible; data were not collected for this field before 2007.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. Because of methodological changes, counts should be used with caution for trend analysis. For more details, see appendix A in https://www.nsf.gov/statistics/nsf10307/.

[b] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed U.S. academic institutions with master's- or doctorate-granting programs in science, engineering, or health. For more details on the impact of the frame update, see https://www.nsf.gov/statistics/2016/nsf16314/.

[c] Starting in 2007, includes neuroscience, which may have been reported under other fields in prior years.

[d] Beginning with 2008, more rigorous follow-up was done in recent years with institutions regarding the exclusion of practitioner-oriented graduate degree programs in psychology and in other health sciences (a subfield of health). This change may affect interpretation of trends in these fields.

Note(s)

S&E includes health fields (medical sciences and other health sciences) and excludes newly eligible fields (architecture, communication, and family and consumer sciences and human sciences) added starting in 2007. Therefore, the S&E numbers in this table differ from the data used in National Science Foundation National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering (annual series), and elsewhere. The survey changes in 2007 and 2014 may affect interpretation of trends.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Graduate Students and Postdoctorates in Science and Engineering.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-25

S&E graduate enrollment, by citizenship and field: 2000–15

(Number)

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
All citizenships																
S&E	493,311	509,607	540,404	567,121	574,463	582,226	597,643	604,815	613,591	611,629	611,841	608,171	609,760	615,706	648,525	667,939
Engineering	104,112	109,493	119,668	127,377	123,566	120,565	123,041	127,075	131,951	137,873	142,446	143,390	146,022	150,873	162,671	167,789
Aerospace	3,407	3,451	3,685	4,048	4,089	4,170	4,482	4,616	4,902	5,266	5,540	5,691	5,069	5,181	5,116	5,345
Chemical	7,056	6,913	7,414	7,516	7,452	7,173	7,261	7,584	7,892	8,188	8,668	8,828	9,222	9,698	9,870	10,008
Civil	16,451	16,665	17,713	18,890	18,561	18,114	17,802	16,071	16,931	18,638	19,559	19,596	19,922	20,110	20,789	20,978
Electrical	33,611	36,100	39,948	41,763	38,995	37,450	38,265	40,588	41,164	41,218	41,336	41,580	42,347	45,562	51,909	52,940
Industrial	12,119	12,940	14,033	14,313	13,852	13,650	13,829	14,474	15,692	15,825	15,205	14,494	14,469	14,363	14,845	16,284
Materials	4,377	4,721	4,992	5,131	5,059	5,160	5,268	5,314	5,539	5,863	6,274	6,649	6,985	7,144	7,518	7,741
Mechanical	15,235	15,852	17,139	18,393	17,852	17,373	17,919	18,347	19,585	21,243	22,509	21,883	23,088	24,087	25,651	27,314
Other	11,856	12,851	14,744	17,323	17,706	17,475	18,215	20,081	20,246	21,632	23,355	24,669	24,920	24,728	26,973	27,179
Science	389,199	400,114	420,736	439,744	450,897	461,661	474,602	477,740	481,640	473,756	469,395	464,781	463,738	464,833	485,854	500,150
Natural sciences	255,406	263,978	279,369	292,453	299,439	304,952	314,602	310,489	313,706	303,195	298,812	292,097	295,414	297,561	324,083	339,566
Agricultural sciences	12,023	12,235	12,698	13,197	13,445	13,123	13,016	13,528	14,153	15,200	15,656	16,129	16,234	16,429	17,505	18,610
Biological sciences[c]	56,282	57,639	61,088	64,701	66,565	68,479	69,941	73,516	74,678	75,660	77,726	79,540	80,994	81,444	83,413	85,098
Earth, atmospheric, and ocean sciences	13,941	13,841	14,240	14,620	15,131	14,836	14,920	14,100	14,389	14,839	15,655	15,820	16,069	15,816	15,710	15,447

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Atmospheric sciences	963	924	1,036	1,150	1,086	1,146	1,079	1,178	1,400	1,355	1,455	1,513	1,546	1,534	1,466	1,387
Earth sciences	6,596	6,544	6,712	6,889	7,358	7,212	7,177	7,020	7,089	7,539	8,251	8,361	8,659	8,754	8,821	8,876
Oceanography	2,668	2,585	2,618	2,695	2,801	2,760	2,770	2,615	2,634	2,633	2,556	2,680	2,642	2,682	2,666	2,574
Other geosciences	3,714	3,788	3,874	3,886	3,886	3,718	3,894	3,287	3,266	3,312	3,393	3,266	3,222	2,846	2,757	2,610
Mathematics and computer sciences	63,000	68,847	73,432	73,161	69,947	68,188	68,468	69,221	70,953	73,387	74,682	75,035	76,364	81,143	102,420	112,636
Computer sciences	47,350	52,196	55,269	53,696	50,016	47,978	47,653	48,246	49,553	51,161	51,546	51,234	51,789	56,339	76,546	86,192
Mathematics and statistics	15,650	16,651	18,163	19,465	19,931	20,210	20,815	20,975	21,400	22,226	23,136	23,801	24,575	24,804	25,874	26,444
Medical and other health sciences	79,775	80,378	85,570	92,476	98,590	103,951	111,356	103,300	102,214	85,960	76,120	65,879	65,825	62,710	64,703	67,389
Medical sciences	22,815	24,012	26,841	29,440	29,762	31,223	33,437	31,876	32,311	32,508	33,862	34,348	34,555	34,332	35,323	36,978
Other health sciences[d]	56,960	56,366	58,729	63,036	68,828	72,728	77,919	71,424	69,903	53,452	42,258	31,531	31,270	28,378	29,380	30,411
Physical sciences	30,385	31,038	32,341	34,298	35,761	36,375	36,901	36,824	37,319	38,149	38,973	39,694	39,928	40,019	40,332	40,386
Astronomy	888	916	990	1,080	1,119	1,191	1,211	1,232	1,275	1,409	1,331	1,345	1,278	1,250	1,241	1,273
Chemistry	18,105	18,366	19,045	20,049	20,776	21,101	21,351	21,298	21,574	22,094	22,436	22,802	23,117	22,949	22,936	22,840
Physics	10,841	11,248	11,701	12,555	13,298	13,472	13,722	13,816	13,862	14,060	14,507	14,829	14,940	15,239	15,564	15,609
Other physical sciences	551	508	605	614	568	611	617	478	608	586	699	718	593	581	591	664
Social and behavioral sciences	133,793	136,136	141,367	147,291	151,458	156,709	160,000	162,767	162,375	164,004	162,639	166,147	162,286	161,380	154,575	152,446
Psychology[d]	50,466	50,454	51,152	52,162	54,126	57,282	57,653	59,617	58,991	56,184	53,419	54,486	54,117	54,102	48,833	49,740
Social sciences	83,327	85,682	90,215	95,129	97,332	99,427	102,347	103,150	103,384	107,820	109,220	111,661	108,169	107,278	105,742	102,706
Anthropology	7,626	7,491	7,481	7,789	7,826	7,750	8,150	8,129	8,333	8,359	8,528	8,406	8,247	8,172	7,955	7,625

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Economics	12,827	13,569	14,196	14,634	14,513	13,932	14,290	14,586	15,103	16,215	16,497	17,015	17,004	16,735	16,535	16,355
History of science	532	571	663	737	994	965	968	1,054	1,177	1,006	705	597	508	391	371	379
Linguistics	2,674	2,744	2,875	3,028	2,941	3,187	3,074	2,879	3,095	3,170	3,132	3,219	3,256	3,509	3,489	3,370
Political science and public administration	31,131	31,805	34,934	36,880	39,023	40,780	41,784	41,349	40,871	43,919	45,045	49,660	48,855	48,411	47,370	45,781
Sociology	9,397	9,620	9,665	9,900	9,713	9,866	9,872	10,324	10,655	10,307	10,212	9,959	9,157	9,188	8,834	8,479
Other social sciences	19,140	19,882	20,401	22,161	22,322	22,947	24,209	24,829	24,150	24,844	25,101	22,805	21,142	20,872	21,188	20,717
Multidisciplinary and interdisciplinary studies	ne	ne	ne	ne	ne	ne	ne	4,484	5,559	6,557	7,944	6,537	6,038	5,892	7,196	8,138
U.S. citizens and permanent residents																
S&E	364,894	368,737	387,416	412,105	423,218	434,730	446,625	447,903	448,347	442,779	440,839	434,718	429,197	422,078	424,585	427,756
Engineering	56,651	56,890	61,277	67,310	66,379	66,551	67,698	67,592	69,411	73,031	76,747	76,970	75,669	74,201	72,852	72,522
Aerospace	1,894	1,805	1,999	2,361	2,401	2,528	2,998	3,090	3,311	3,605	3,893	4,045	3,614	3,629	3,389	3,418
Chemical	3,711	3,398	3,686	3,736	3,753	3,675	3,685	3,744	3,821	4,022	4,272	4,402	4,473	4,630	4,725	4,604
Civil	10,306	10,072	10,553	11,458	11,436	11,415	11,421	9,972	10,477	11,750	12,482	12,221	11,984	11,448	10,929	10,465
Electrical	15,315	15,534	16,579	18,118	16,878	16,662	16,166	16,024	16,042	15,936	16,109	15,985	15,301	14,892	14,454	14,346
Industrial	7,574	7,588	8,290	8,820	8,763	9,071	9,249	9,090	9,464	9,511	9,028	8,552	8,233	8,006	7,372	7,361
Materials	2,265	2,385	2,482	2,546	2,501	2,518	2,690	2,719	2,796	2,949	3,197	3,315	3,425	3,504	3,633	3,745
Mechanical	8,052	8,141	8,562	9,602	9,724	9,719	10,205	10,481	11,075	11,893	12,986	12,635	12,859	12,791	12,696	12,679
Other	7,534	7,967	9,126	10,669	10,923	10,963	11,284	12,472	12,425	13,365	14,780	15,815	15,780	15,301	15,654	15,904
Science	308,243	311,847	326,139	344,795	356,839	368,179	378,927	380,311	378,936	369,748	364,092	357,748	353,528	347,877	351,733	355,234

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Natural sciences	193,036	195,250	205,691	218,875	226,950	232,603	240,588	235,170	234,181	222,537	217,406	209,614	210,464	206,530	216,627	222,115
Agricultural sciences	9,612	9,722	10,085	10,601	10,750	10,464	10,341	10,631	11,047	11,938	12,416	12,702	12,676	12,773	13,604	14,466
Biological sciences[c]	44,521	45,196	47,253	49,865	50,734	52,012	53,034	56,558	56,746	57,904	59,829	61,374	62,592	63,118	65,088	66,741
Earth, atmospheric, and ocean sciences	11,249	11,059	11,463	11,837	12,337	12,058	12,153	11,488	11,612	12,082	12,729	12,730	12,863	12,589	12,392	12,025
Atmospheric sciences	659	639	721	861	813	849	821	891	1,080	1,056	1,133	1,180	1,199	1,191	1,074	1,012
Earth sciences	5,294	5,189	5,333	5,456	5,906	5,785	5,749	5,633	5,686	6,036	6,607	6,588	6,781	6,860	6,887	6,814
Oceanography	2,142	2,071	2,152	2,206	2,304	2,270	2,267	2,184	2,164	2,170	2,122	2,211	2,204	2,220	2,222	2,168
Other geosciences	3,154	3,160	3,257	3,314	3,314	3,154	3,316	2,780	2,682	2,820	2,867	2,751	2,679	2,318	2,209	2,031
Mathematics and computer sciences	34,681	36,309	39,342	41,477	40,785	40,177	39,894	38,873	38,551	40,236	40,691	40,307	39,702	38,553	44,070	45,052
Computer sciences	25,088	26,142	28,203	29,420	28,261	27,409	26,675	25,441	25,316	26,325	26,170	25,656	24,962	24,191	29,630	31,027
Mathematics and statistics	9,593	10,167	11,139	12,057	12,524	12,768	13,219	13,432	13,235	13,911	14,521	14,651	14,740	14,362	14,440	14,025
Medical and other health sciences	74,243	74,129	78,297	84,924	91,196	96,217	103,022	95,203	93,669	77,306	68,089	58,363	58,354	55,071	56,797	59,322
Medical sciences	19,090	19,784	21,773	24,212	24,789	26,163	27,936	26,297	26,354	26,218	27,976	28,482	28,764	28,401	29,216	30,747
Other health sciences[d]	55,153	54,345	56,524	60,712	66,407	70,054	75,086	68,906	67,315	51,088	40,113	29,881	29,590	26,670	27,581	28,575
Physical sciences	18,730	18,835	19,251	20,171	21,148	21,675	22,144	22,417	22,556	23,071	23,652	24,138	24,277	24,426	24,676	24,509
Astronomy	617	633	687	747	749	828	845	851	873	969	932	939	934	920	915	921
Chemistry	11,883	11,797	11,792	12,168	12,637	12,833	13,050	13,201	13,155	13,515	13,766	14,057	14,263	14,266	14,348	14,251
Physics	5,757	5,991	6,259	6,744	7,270	7,473	7,722	7,918	7,988	8,078	8,460	8,656	8,639	8,832	9,020	8,934
Other physical sciences	473	414	513	512	492	541	527	447	540	509	494	486	441	408	393	403

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Social and behavioral sciences	115,207	116,597	120,448	125,920	129,889	135,576	138,339	141,353	140,102	141,683	139,979	142,639	138,117	136,612	129,561	127,277
Psychology[d]	48,203	47,933	48,295	49,055	50,932	54,228	54,802	56,574	55,912	53,246	50,332	51,398	51,016	51,042	45,868	46,631
Social sciences	67,004	68,664	72,153	76,865	78,957	81,348	83,537	84,779	84,190	88,437	89,647	91,241	87,101	85,570	83,693	80,646
Anthropology	6,797	6,722	6,634	6,967	6,966	6,892	7,225	7,155	7,352	7,410	7,538	7,424	7,283	7,182	6,952	6,608
Economics	6,006	6,233	6,530	6,920	6,938	6,590	6,810	7,068	7,331	8,194	8,307	8,502	8,055	7,639	7,289	7,043
History of science	463	501	595	668	925	886	881	978	1,081	913	630	511	425	319	294	299
Linguistics	1,714	1,782	1,893	2,065	1,936	2,257	2,124	2,028	2,150	2,229	2,182	2,232	2,235	2,409	2,404	2,321
Political science and public administration	26,972	27,582	30,280	32,003	34,054	35,895	36,477	36,263	35,621	38,328	39,520	43,561	42,556	42,018	40,705	39,135
Sociology	8,065	8,228	8,275	8,485	8,356	8,481	8,493	9,046	9,371	9,073	8,983	8,751	7,936	7,925	7,596	7,269
Other social sciences	16,987	17,616	17,946	19,757	19,782	20,347	21,527	22,241	21,284	22,290	22,487	20,260	18,611	18,078	18,453	17,971
Multidisciplinary and interdisciplinary studies	ne	ne	ne	ne	ne	ne	ne	3,788	4,653	5,528	6,707	5,495	4,947	4,735	5,545	5,842
Temporary visa holders																
S&E	128,417	140,870	152,988	155,016	151,245	147,496	151,018	156,912	165,244	168,850	171,002	173,453	180,563	193,628	223,940	240,183
Engineering	47,461	52,603	58,391	60,067	57,187	54,014	55,343	59,483	62,540	64,842	65,699	66,420	70,353	76,672	89,819	95,267
Aerospace	1,513	1,646	1,686	1,687	1,688	1,642	1,484	1,526	1,591	1,661	1,647	1,646	1,455	1,552	1,727	1,927
Chemical	3,345	3,515	3,728	3,780	3,699	3,498	3,576	3,840	4,071	4,166	4,396	4,426	4,749	5,068	5,145	5,404
Civil	6,145	6,593	7,160	7,432	7,125	6,699	6,381	6,099	6,454	6,888	7,077	7,375	7,938	8,662	9,860	10,513
Electrical	18,296	20,566	23,369	23,645	22,117	20,788	22,099	24,564	25,122	25,282	25,227	25,595	27,046	30,670	37,455	38,594
Industrial	4,545	5,352	5,743	5,493	5,089	4,579	4,580	5,384	6,228	6,314	6,177	5,942	6,236	6,357	7,473	8,923

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Materials	2,112	2,336	2,510	2,585	2,558	2,642	2,578	2,595	2,743	2,914	3,077	3,334	3,560	3,640	3,885	3,996
Mechanical	7,183	7,711	8,577	8,791	8,128	7,654	7,714	7,866	8,510	9,350	9,523	9,248	10,229	11,296	12,955	14,635
Other	4,322	4,884	5,618	6,654	6,783	6,512	6,931	7,609	7,821	8,267	8,575	8,854	9,140	9,427	11,319	11,275
Science	80,956	88,267	94,597	94,949	94,058	93,482	95,675	97,429	102,704	104,008	105,303	107,033	110,210	116,956	134,121	144,916
Natural sciences	62,370	68,728	73,678	73,578	72,489	72,349	74,014	75,319	79,525	80,658	81,406	82,483	84,950	91,031	107,456	117,451
Agricultural sciences	2,411	2,513	2,613	2,596	2,695	2,659	2,675	2,897	3,106	3,262	3,240	3,427	3,558	3,656	3,901	4,144
Biological sciences[c]	11,761	12,443	13,835	14,836	15,831	16,467	16,907	16,958	17,932	17,756	17,897	18,166	18,402	18,326	18,325	18,357
Earth, atmospheric, and ocean sciences	2,692	2,782	2,777	2,783	2,794	2,778	2,767	2,612	2,777	2,757	2,926	3,090	3,206	3,227	3,318	3,422
Atmospheric sciences	304	285	315	289	273	297	258	287	320	299	322	333	347	343	392	375
Earth sciences	1,302	1,355	1,379	1,433	1,452	1,427	1,428	1,387	1,403	1,503	1,644	1,773	1,878	1,894	1,934	2,062
Oceanography	526	514	466	489	497	490	503	431	470	463	434	469	438	462	444	406
Other geosciences	560	628	617	572	572	564	578	507	584	492	526	515	543	528	548	579
Mathematics and computer sciences	28,319	32,538	34,090	31,684	29,162	28,011	28,574	30,348	32,402	33,151	33,991	34,728	36,662	42,590	58,350	67,584
Computer sciences	22,262	26,054	27,066	24,276	21,755	20,569	20,978	22,805	24,237	24,836	25,376	25,578	26,827	32,148	46,916	55,165
Mathematics and statistics	6,057	6,484	7,024	7,408	7,407	7,442	7,596	7,543	8,165	8,315	8,615	9,150	9,835	10,442	11,434	12,419
Medical and other health sciences	5,532	6,249	7,273	7,552	7,394	7,734	8,334	8,097	8,545	8,654	8,031	7,516	7,471	7,639	7,906	8,067
Medical sciences	3,725	4,228	5,068	5,228	4,973	5,060	5,501	5,579	5,957	6,290	5,886	5,866	5,791	5,931	6,107	6,231
Other health sciences[d]	1,807	2,021	2,205	2,324	2,421	2,674	2,833	2,518	2,588	2,364	2,145	1,650	1,680	1,708	1,799	1,836
Physical sciences	11,655	12,203	13,090	14,127	14,613	14,700	14,757	14,407	14,763	15,078	15,321	15,556	15,651	15,593	15,656	15,877

Citizenship and field	2000	2001	2002	2003	2004	2005	2006	2007[a]	2008	2009	2010	2011	2012	2013	2014[b]	2015
Astronomy	271	283	303	333	370	363	366	381	402	440	399	406	344	330	326	352
Chemistry	6,222	6,569	7,253	7,881	8,139	8,268	8,301	8,097	8,419	8,579	8,670	8,745	8,854	8,683	8,588	8,589
Physics	5,084	5,257	5,442	5,811	6,028	5,999	6,000	5,898	5,874	5,982	6,047	6,173	6,301	6,407	6,544	6,675
Other physical sciences	78	94	92	102	76	70	90	31	68	77	205	232	152	173	198	261
Social and behavioral sciences	18,586	19,539	20,919	21,371	21,569	21,133	21,661	21,414	22,273	22,321	22,660	23,508	24,169	24,768	25,014	25,169
Psychology[d]	2,263	2,521	2,857	3,107	3,194	3,054	2,851	3,043	3,079	2,938	3,087	3,088	3,101	3,060	2,965	3,109
Social sciences	16,323	17,018	18,062	18,264	18,375	18,079	18,810	18,371	19,194	19,383	19,573	20,420	21,068	21,708	22,049	22,060
Anthropology	829	769	847	822	860	858	925	974	981	949	990	982	964	990	1,003	1,017
Economics	6,821	7,336	7,666	7,714	7,575	7,342	7,480	7,518	7,772	8,021	8,190	8,513	8,949	9,096	9,246	9,312
History of science	69	70	68	69	69	79	87	76	96	93	75	86	83	72	77	80
Linguistics	960	962	982	963	1,005	930	950	851	945	941	950	987	1,021	1,100	1,085	1,049
Political science and public administration	4,159	4,223	4,654	4,877	4,969	4,885	5,307	5,086	5,250	5,591	5,525	6,099	6,299	6,393	6,665	6,646
Sociology	1,332	1,392	1,390	1,415	1,357	1,385	1,379	1,278	1,284	1,234	1,229	1,208	1,221	1,263	1,238	1,210
Other social sciences	2,153	2,266	2,455	2,404	2,540	2,600	2,682	2,588	2,866	2,554	2,614	2,545	2,531	2,794	2,735	2,746
Multidisciplinary and interdisciplinary studies	ne	ne	ne	ne	ne	ne	ne	696	906	1,029	1,237	1,042	1,091	1,157	1,651	2,296

ne = not eligible; data were not collected for this field before 2007.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. Because of methodological changes, counts should be used with caution for trend analysis. For more details, see appendix A in https://www.nsf.gov/statistics/nsf10307/.

[b] In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed U.S. academic institutions with master's- or doctorate-granting programs in science, engineering, or health. For more details on the impact of the frame update, see https://www.nsf.gov/statistics/2016/nsf16314/.

[c] Starting in 2007, includes neuroscience, which may have been reported under other fields in prior years.

[d] Beginning with 2008, more rigorous follow-up was done in recent years with institutions regarding the exclusion of practitioner-oriented graduate degree programs in psychology and in other health sciences (a subfield of health). This change may affect interpretation of trends in these fields.

Note(s)

S&E includes health fields (medical sciences and other health sciences) and excludes newly eligible fields (architecture, communication, and family and consumer sciences and human sciences) added starting in 2007. Therefore, the S&E numbers in this table differ from the data used in National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering (annual series), and elsewhere. The survey changes in 2007 and 2014 may affect interpretation of trends.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Graduate Students and Postdoctorates in Science and Engineering.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-26

International graduate student enrollment in U.S. universities, by field and selected places of origin: 2016 and 2017

(Number)

Place of origin	All fields	S&E									Non-S&E
		Total	Agricultural sciences	Biological sciences	Computer sciences	Engineering	Mathematics	Physical sciences	Psychology	Social sciences	
2016											
All locations	389,310	244,040	3,970	15,700	70,630	96,330	15,780	18,210	3,360	20,070	145,270
India	117,540	95,950	470	3,280	47,430	39,470	1,380	2,310	310	1,300	21,590
China	123,290	76,400	1,330	5,500	13,110	30,840	10,230	7,500	810	7,080	46,890
Iran	9,270	7,680	110	220	970	5,020	220	790	40	330	1,590
South Korea	17,880	6,740	110	590	630	2,450	470	570	280	1,640	11,140
Saudi Arabia	12,510	5,810	110	720	1,480	1,930	410	560	110	500	6,700
Taiwan	8,780	4,370	70	530	750	1,840	240	540	100	300	4,410
Bangladesh	4,480	3,560	60	230	650	1,810	110	430	10	280	920
Nepal	4,880	3,410	220	430	930	800	90	700	30	210	1,470
Canada	9,330	2,650	60	440	160	620	180	320	360	520	6,680
Nigeria	4,810	2,190	110	200	440	810	80	190	30	340	2,620
Turkey	3,470	2,070	20	180	230	810	110	150	70	510	1,400
Mexico	3,400	1,570	90	190	90	490	90	170	40	410	1,830
Sri Lanka	1,610	1,370	40	130	90	220	180	660	10	50	240

Place of origin	All fields	S&E									Non-S&E
		Total	Agricultural sciences	Biological sciences	Computer sciences	Engineering	Mathematics	Physical sciences	Psychology	Social sciences	
Pakistan	2,240	1,340	20	60	370	530	40	90	20	220	900
Vietnam	3,130	1,330	10	100	310	370	170	160	20	190	1,800
Colombia	2,510	1,220	80	160	80	400	80	140	30	260	1,290
Brazil	3,490	1,210	150	170	90	290	50	110	50	300	2,280
France	2,370	1,050	20	70	90	530	80	70	20	180	1,330
Germany	2,270	1,010	30	140	70	190	80	140	50	330	1,260
Japan	2,660	990	20	90	80	200	30	90	60	420	1,670
Other locations	49,380	22,130	870	2,300	2,620	6,740	1,480	2,520	900	4,690	27,260
2017											
All locations	367,920	229,310	3,920	15,530	61,460	88,960	18,110	18,140	3,340	19,850	138,610
China	124,990	79,580	1,210	5,490	14,680	30,840	11,910	7,430	860	7,160	45,410
India	96,760	77,500	460	3,000	36,200	32,110	1,800	2,280	320	1,330	19,260
Iran	9,150	7,640	110	240	1,010	4,910	200	800	60	320	1,510
South Korea	17,050	6,650	120	590	650	2,360	470	600	260	1,600	10,410
Saudi Arabia	10,850	5,200	90	700	1,270	1,750	350	500	110	430	5,640
Taiwan	8,810	4,580	70	470	930	1,870	310	520	110	300	4,230
Bangladesh	4,620	3,810	70	260	670	1,930	120	490	10	260	810

Place of origin	All fields	S&E									Non-S&E
		Total	Agricultural sciences	Biological sciences	Computer sciences	Engineering	Mathematics	Physical sciences	Psychology	Social sciences	
Nepal	4,820	3,430	220	460	850	840	100	730	20	210	1,390
Canada	8,970	2,640	70	410	210	610	170	310	360	500	6,330
Nigeria	5,340	2,420	120	230	530	880	110	200	30	320	2,920
Turkey	3,550	2,080	20	190	260	820	90	150	80	470	1,470
Mexico	3,230	1,550	90	190	90	470	80	190	40	420	1,690
Vietnam	3,300	1,520	10	120	390	390	200	180	40	200	1,780
Sri Lanka	1,700	1,470	30	140	100	260	180	690	10	60	240
Pakistan	2,320	1,420	20	70	390	530	60	110	20	230	900
Brazil	3,810	1,360	160	180	110	370	50	110	50	330	2,460
Colombia	2,480	1,190	80	150	80	370	80	130	30	260	1,300
France	2,250	1,060	20	70	100	530	90	70	20	170	1,190
Germany	2,170	970	30	120	80	180	70	130	50	310	1,200
Japan	2,590	990	20	100	80	210	30	80	50	410	1,600
Other locations	49,150	22,290	920	2,360	2,790	6,740	1,610	2,450	840	4,580	26,870

Note(s)

Data include active foreign national students on F-1 visas and exclude those on optional practical training. Graduate student enrollment includes master's and doctoral degrees. Numbers are rounded to the nearest 10. Places of origin are ordered by total number of S&E students. Detail may not add to total because of rounding. Physical sciences include earth, atmospheric, and ocean sciences. Data include students who are in the SEVIS database between 16 April and 15 November of each year.

Source(s)

U.S. Department of Homeland Security, U.S. Immigration and Customs Enforcement, special tabulations (2017), Student and Exchange Visitor Information System (SEVIS) database.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-27

Earned master's degrees, by sex and field: 2000–15

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Both sexes																
All fields	460,142	471,329	485,535	516,098	562,862	578,964	599,365	610,469	631,711	665,473	698,528	736,455	757,387	756,975	759,796	763,980
S&E	96,230	99,528	99,650	108,355	119,296	120,870	120,999	120,278	126,404	134,517	139,926	150,653	161,371	166,397	171,228	180,955
Engineering	25,738	26,436	26,180	29,472	33,922	33,899	32,263	30,936	33,177	36,510	37,614	41,282	43,150	43,388	45,362	49,207
Aerospace	560	611	682	702	870	935	936	912	1,036	1,075	1,098	1,306	1,408	1,266	1,311	1,318
Chemical	1,352	1,368	1,267	1,364	1,506	1,506	1,432	1,230	1,230	1,285	1,430	1,741	1,911	1,932	2,092	2,278
Civil	4,140	4,010	3,945	4,188	4,445	4,631	4,493	4,184	4,327	4,570	4,962	5,915	6,405	6,486	6,691	6,573
Electrical	8,341	8,596	8,246	10,038	12,220	11,613	10,456	10,093	11,232	12,698	12,105	12,545	12,642	12,473	13,112	15,763
Industrial	3,048	3,375	3,375	3,842	4,247	3,937	3,558	3,505	3,659	4,313	4,866	5,083	5,346	5,327	5,605	5,631
Materials	759	706	624	717	800	790	765	787	768	836	815	894	990	1,099	1,170	1,164
Mechanical	3,378	3,471	3,516	3,802	4,555	4,739	4,542	4,365	4,556	4,689	4,890	5,938	5,977	5,991	6,285	6,954
Other	4,160	4,299	4,525	4,819	5,279	5,748	6,081	5,860	6,369	7,044	7,448	7,860	8,471	8,814	9,096	9,526
Science	70,492	73,092	73,470	78,883	85,374	86,971	88,736	89,342	93,227	98,007	102,312	109,371	118,221	123,009	125,866	131,748
Natural sciences	33,326	35,471	35,780	39,300	41,970	41,078	40,808	40,144	41,914	43,397	45,331	48,346	52,583	55,873	58,908	66,939
Agricultural sciences	3,858	3,752	4,019	3,955	4,221	4,171	4,100	4,126	4,120	4,349	4,684	5,148	5,843	5,757	5,916	5,792
Biological sciences	6,329	6,487	6,341	6,883	7,644	8,120	8,718	8,794	9,565	9,921	10,668	11,214	12,313	13,048	13,731	14,370

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth, atmospheric, and ocean sciences	1,345	1,363	1,406	1,491	1,570	1,637	1,684	1,632	1,552	1,579	1,677	1,789	2,043	2,080	2,197	2,212
Atmospheric sciences	156	140	141	167	179	212	206	193	199	225	227	221	240	233	263	253
Earth sciences	1,104	1,121	1,151	1,203	1,248	1,314	1,350	1,312	1,222	1,224	1,301	1,429	1,650	1,705	1,782	1,812
Oceanography	85	102	114	121	143	111	128	127	131	130	149	139	153	142	152	147
Mathematics and computer sciences	18,281	20,132	20,389	23,311	24,505	23,086	22,028	21,349	22,303	23,447	23,979	25,722	27,675	30,179	32,419	39,821
Computer sciences	14,986	16,852	16,965	19,590	20,208	18,489	17,138	16,314	17,151	17,988	18,021	19,519	21,001	22,833	24,635	31,552
Mathematics and statistics	3,295	3,280	3,424	3,721	4,297	4,597	4,890	5,035	5,152	5,459	5,958	6,203	6,674	7,346	7,784	8,269
Physical sciences	3,513	3,737	3,625	3,660	4,030	4,064	4,278	4,243	4,374	4,101	4,323	4,473	4,709	4,809	4,645	4,744
Astronomy	102	93	112	123	150	159	146	152	166	139	149	185	127	170	160	156
Chemistry	1,909	2,009	1,867	1,830	2,056	1,912	2,097	2,144	2,236	2,131	2,175	2,324	2,493	2,478	2,431	2,491
Physics	1,244	1,376	1,353	1,453	1,637	1,794	1,853	1,792	1,799	1,657	1,810	1,771	1,879	1,984	1,876	1,934
Other physical sciences	258	259	293	254	187	199	182	155	173	174	189	193	210	177	178	163
Social and behavioral sciences	37,166	37,621	37,690	39,583	43,404	45,893	47,928	49,198	51,313	54,610	56,981	61,025	65,638	67,136	66,958	64,809
Psychology	13,806	14,449	14,204	14,885	15,700	16,478	17,302	18,594	18,836	20,744	21,032	22,363	24,215	25,140	25,332	24,029
Social sciences	23,360	23,172	23,486	24,698	27,704	29,415	30,626	30,604	32,477	33,866	35,949	38,662	41,423	41,996	41,626	40,780
Anthropology	950	1,092	1,017	1,043	1,098	1,107	1,156	1,214	1,145	1,248	1,233	1,243	1,279	1,195	1,316	1,258
Area and ethnic studies	1,511	1,511	1,473	1,427	1,616	1,662	2,017	1,641	1,722	1,672	1,700	1,880	1,857	1,874	1,791	1,858
Economics	2,515	2,492	2,651	2,951	3,201	3,504	3,330	3,351	3,576	3,651	3,732	4,173	4,331	4,287	4,541	4,432
History of science	24	26	35	25	25	29	41	28	47	33	25	44	37	33	28	26

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Linguistics	553	552	520	525	574	611	621	583	610	720	679	711	789	782	728	779
Political science and public administration	13,038	12,937	13,200	14,135	15,780	17,421	18,073	18,525	19,933	20,575	22,083	24,128	26,085	26,762	26,321	25,786
Sociology	2,036	1,901	1,957	1,929	2,031	1,518	1,577	1,575	1,571	1,601	1,453	1,640	1,810	1,652	1,661	1,481
Other social sciences	2,733	2,661	2,633	2,663	3,379	3,563	3,811	3,687	3,873	4,366	5,044	4,843	5,235	5,411	5,240	5,160
Non-S&E	363,912	371,801	385,885	407,743	443,566	458,094	478,366	490,191	505,307	530,956	558,602	585,802	596,016	590,578	588,568	583,025
Male																
All fields	192,821	195,277	200,199	212,513	230,786	234,829	239,418	239,892	248,971	263,478	277,170	293,301	302,401	303,230	304,556	308,283
S&E	54,560	55,884	55,939	61,183	67,215	67,244	66,249	65,353	68,810	73,489	76,266	82,451	87,810	90,046	92,457	99,282
Engineering	20,396	20,819	20,617	23,301	26,774	26,287	24,784	23,957	25,540	28,271	29,212	31,943	33,254	33,091	34,374	36,925
Aerospace	484	521	557	596	721	771	781	742	864	906	941	1,110	1,217	1,076	1,104	1,140
Chemical	1,008	1,016	932	1,021	1,089	1,081	1,046	854	877	887	995	1,235	1,316	1,319	1,475	1,603
Civil	3,065	2,951	2,883	3,041	3,234	3,309	3,147	2,969	3,091	3,214	3,553	4,266	4,551	4,503	4,695	4,607
Electrical	6,781	6,921	6,685	8,136	9,822	9,133	8,243	8,079	8,882	10,198	9,695	10,064	10,128	9,992	10,268	12,018
Industrial	2,400	2,591	2,583	2,999	3,341	3,018	2,640	2,628	2,734	3,247	3,685	3,738	3,907	3,926	4,094	4,070
Materials	558	534	456	536	601	586	565	578	549	594	590	650	669	764	822	818
Mechanical	2,923	3,023	3,048	3,343	3,992	4,140	3,909	3,782	3,896	3,990	4,197	5,150	5,226	5,160	5,325	5,879
Other	3,177	3,262	3,473	3,629	3,974	4,249	4,453	4,325	4,647	5,235	5,556	5,730	6,240	6,351	6,591	6,790
Science	34,164	35,065	35,322	37,882	40,441	40,957	41,465	41,396	43,270	45,218	47,054	50,508	54,556	56,955	58,083	62,357
Natural sciences	19,765	20,934	21,097	23,356	24,768	24,417	24,457	23,946	24,982	25,944	26,952	28,688	31,243	33,487	34,832	39,765

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Agricultural sciences	2,039	1,915	2,022	1,896	1,965	1,951	1,947	1,859	1,872	2,031	2,237	2,399	2,690	2,584	2,622	2,564
Biological sciences	2,816	2,732	2,668	2,864	3,160	3,233	3,612	3,541	3,954	4,146	4,485	4,782	5,235	5,625	5,913	6,044
Earth, atmospheric, and ocean sciences	832	799	834	879	869	927	923	891	847	848	888	994	1,170	1,178	1,281	1,257
Atmospheric sciences	119	100	95	112	112	143	135	124	126	134	133	135	147	142	152	163
Earth sciences	670	649	678	702	682	737	738	713	663	658	686	797	956	961	1,063	1,031
Oceanography	43	50	61	65	75	47	50	54	58	56	69	62	67	75	66	63
Mathematics and computer sciences	11,780	13,052	13,274	15,375	16,257	15,766	15,323	14,975	15,500	16,332	16,640	17,697	19,128	20,989	22,087	26,834
Computer sciences	9,983	11,161	11,325	13,335	13,910	13,180	12,520	12,038	12,555	13,119	13,058	14,011	15,161	16,570	17,547	21,945
Mathematics and statistics	1,797	1,891	1,949	2,040	2,347	2,586	2,803	2,937	2,945	3,213	3,582	3,686	3,967	4,419	4,540	4,889
Physical sciences	2,298	2,436	2,299	2,342	2,517	2,540	2,652	2,680	2,809	2,587	2,702	2,816	3,020	3,111	2,929	3,066
Astronomy	77	57	85	81	97	97	80	93	104	82	94	115	77	94	94	94
Chemistry	1,086	1,184	1,015	1,001	1,106	973	1,073	1,139	1,201	1,134	1,120	1,243	1,361	1,348	1,309	1,382
Physics	1,000	1,090	1,067	1,140	1,224	1,372	1,414	1,375	1,421	1,286	1,400	1,367	1,470	1,583	1,437	1,498
Other physical sciences	135	105	132	120	90	98	85	73	83	85	88	91	112	86	89	92
Social and behavioral sciences	14,399	14,131	14,225	14,526	15,673	16,540	17,008	17,450	18,288	19,274	20,102	21,820	23,313	23,468	23,251	22,592
Psychology	3,443	3,510	3,426	3,478	3,465	3,560	3,665	3,915	3,920	4,382	4,386	4,719	5,062	5,288	5,327	5,103
Social sciences	10,956	10,621	10,799	11,048	12,208	12,980	13,343	13,535	14,368	14,892	15,716	17,101	18,251	18,180	17,924	17,489
Anthropology	363	403	375	388	377	370	395	375	379	410	394	394	419	376	416	411
Area and ethnic studies	643	619	608	554	656	687	794	644	662	622	679	746	728	724	654	709

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Economics	1,563	1,519	1,601	1,790	1,949	2,113	2,011	2,045	2,192	2,145	2,240	2,445	2,596	2,514	2,689	2,633
History of science	18	16	18	15	11	17	30	10	24	17	16	30	19	19	9	11
Linguistics	146	172	160	145	164	178	171	175	212	217	202	229	281	290	287	255
Political science and public administration	6,317	6,094	6,213	6,399	6,947	7,614	7,850	8,209	8,694	8,979	9,550	10,580	11,178	11,356	11,115	10,850
Sociology	649	643	642	633	673	485	467	485	512	536	476	567	633	545	537	495
Other social sciences	1,257	1,155	1,182	1,124	1,431	1,516	1,625	1,592	1,693	1,966	2,159	2,110	2,397	2,356	2,217	2,125
Non-S&E	138,261	139,393	144,260	151,330	163,571	167,585	173,169	174,539	180,161	189,989	200,904	210,850	214,591	213,184	212,099	209,001
Female																
All fields	267,321	276,052	285,336	303,585	332,076	344,135	359,947	370,577	382,740	401,995	421,358	443,154	454,986	453,745	455,240	455,697
S&E	41,670	43,644	43,711	47,172	52,081	53,626	54,750	54,925	57,594	61,028	63,660	68,202	73,561	76,351	78,771	81,673
Engineering	5,342	5,617	5,563	6,171	7,148	7,612	7,479	6,979	7,637	8,239	8,402	9,339	9,896	10,297	10,988	12,282
Aerospace	76	90	125	106	149	164	155	170	172	169	157	196	191	190	207	178
Chemical	344	352	335	343	417	425	386	376	353	398	435	506	595	613	617	675
Civil	1,075	1,059	1,062	1,147	1,211	1,322	1,346	1,215	1,236	1,356	1,409	1,649	1,854	1,983	1,996	1,966
Electrical	1,560	1,675	1,561	1,902	2,398	2,480	2,213	2,014	2,350	2,500	2,410	2,481	2,514	2,481	2,844	3,745
Industrial	648	784	792	843	906	919	918	877	925	1,066	1,181	1,345	1,439	1,401	1,511	1,561
Materials	201	172	168	181	199	204	200	209	219	242	225	244	321	335	348	346
Mechanical	455	448	468	459	563	599	633	583	660	699	693	788	751	831	960	1,075
Other	983	1,037	1,052	1,190	1,305	1,499	1,628	1,535	1,722	1,809	1,892	2,130	2,231	2,463	2,505	2,736

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Science	36,328	38,027	38,148	41,001	44,933	46,014	47,271	47,946	49,957	52,789	55,258	58,863	63,665	66,054	67,783	69,391
Natural sciences	13,561	14,537	14,683	15,944	17,202	16,661	16,351	16,198	16,932	17,453	18,379	19,658	21,340	22,386	24,076	27,174
Agricultural sciences	1,819	1,837	1,997	2,059	2,256	2,220	2,153	2,267	2,248	2,318	2,447	2,749	3,153	3,173	3,294	3,228
Biological sciences	3,513	3,755	3,673	4,019	4,484	4,887	5,106	5,253	5,611	5,775	6,183	6,432	7,078	7,423	7,818	8,326
Earth, atmospheric, and ocean sciences	513	564	572	612	701	710	761	741	705	731	789	795	873	902	916	955
Atmospheric sciences	37	40	46	55	67	69	71	69	73	91	94	86	93	91	111	90
Earth sciences	434	472	473	501	566	577	612	599	559	566	615	632	694	744	719	781
Oceanography	42	52	53	56	68	64	78	73	73	74	80	77	86	67	86	84
Mathematics and computer sciences	6,501	7,080	7,115	7,936	8,248	7,320	6,705	6,374	6,803	7,115	7,339	8,025	8,547	9,190	10,332	12,987
Computer sciences	5,003	5,691	5,640	6,255	6,298	5,309	4,618	4,276	4,596	4,869	4,963	5,508	5,840	6,263	7,088	9,607
Mathematics and statistics	1,498	1,389	1,475	1,681	1,950	2,011	2,087	2,098	2,207	2,246	2,376	2,517	2,707	2,927	3,244	3,380
Physical sciences	1,215	1,301	1,326	1,318	1,513	1,524	1,626	1,563	1,565	1,514	1,621	1,657	1,689	1,698	1,716	1,678
Astronomy	25	36	27	42	53	62	66	59	62	57	55	70	50	76	66	62
Chemistry	823	825	852	829	950	939	1,024	1,005	1,035	997	1,055	1,081	1,132	1,130	1,122	1,109
Physics	244	286	286	313	413	422	439	417	378	371	410	404	409	401	439	436
Other physical sciences	123	154	161	134	97	101	97	82	90	89	101	102	98	91	89	71
Social and behavioral sciences	22,767	23,490	23,465	25,057	27,731	29,353	30,920	31,748	33,025	35,336	36,879	39,205	42,325	43,668	43,707	42,217
Psychology	10,363	10,939	10,778	11,407	12,235	12,918	13,637	14,679	14,916	16,362	16,646	17,644	19,153	19,852	20,005	18,926
Social sciences	12,404	12,551	12,687	13,650	15,496	16,435	17,283	17,069	18,109	18,974	20,233	21,561	23,172	23,816	23,702	23,291

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Anthropology	587	689	642	655	721	737	761	839	766	838	839	849	860	819	900	847
Area and ethnic studies	868	892	865	873	960	975	1223	997	1,060	1050	1,021	1,134	1,129	1,150	1,137	1,149
Economics	952	973	1050	1161	1,252	1,391	1,319	1,306	1,384	1,506	1,492	1,728	1,735	1,773	1,852	1,799
History of science	6	10	17	10	14	12	11	18	23	16	9	14	18	14	19	15
Linguistics	407	380	360	380	410	433	450	408	398	503	477	482	508	492	441	524
Political science and public administration	6,721	6,843	6,987	7,736	8,833	9,807	10,223	10,316	11,239	11,596	12,533	13,548	14,907	15,406	15,206	14,936
Sociology	1,387	1,258	1,315	1,296	1,358	1,033	1,110	1,090	1,059	1,065	977	1,073	1177	1,107	1,124	986
Other social sciences	1,476	1,506	1,451	1,539	1,948	2,047	2,186	2,095	2,180	2,400	2,885	2,733	2,838	3,055	3,023	3,035
Non-S&E	225,651	232,408	241,625	256,413	279,995	290,509	305,197	315,652	325,146	340,967	357,698	374,952	381,425	377,394	376,469	374,024

Note(s)

Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data from *Science and Engineering Indicators 2008* and earlier years that were based on accredited higher education institutions.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-28

Earned master's degrees, by citizenship, field, race, and ethnicity: 2000–15

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All citizenships, races, and ethnicities																
All fields	460,142	471,329	485,535	516,098	562,862	578,964	599,365	610,469	631,711	665,473	698,528	736,455	757,387	756,975	759,796	763,980
S&E	96,230	99,528	99,650	108,355	119,296	120,870	120,999	120,278	126,404	134,517	139,926	150,653	161,371	166,397	171,228	180,955
Engineering	25,738	26,436	26,180	29,472	33,922	33,899	32,263	30,936	33,177	36,510	37,614	41,282	43,150	43,388	45,362	49,207
Aerospace	560	611	682	702	870	935	936	912	1,036	1,075	1,098	1,306	1,408	1,266	1,311	1,318
Chemical	1,352	1,368	1,267	1,364	1,506	1,506	1,432	1,230	1,230	1,285	1,430	1,741	1,911	1,932	2,092	2,278
Civil	4,140	4,010	3,945	4,188	4,445	4,631	4,493	4,184	4,327	4,570	4,962	5,915	6,405	6,486	6,691	6,573
Electrical	8,341	8,596	8,246	10,038	12,220	11,613	10,456	10,093	11,232	12,698	12,105	12,545	12,642	12,473	13,112	15,763
Industrial	3,048	3,375	3,375	3,842	4,247	3,937	3,558	3,505	3,659	4,313	4,866	5,083	5,346	5,327	5,605	5,631
Materials	759	706	624	717	800	790	765	787	768	836	815	894	990	1,099	1,170	1,164
Mechanical	3,378	3,471	3,516	3,802	4,555	4,739	4,542	4,365	4,556	4,689	4,890	5,938	5,977	5,991	6,285	6,954
Other	4,160	4,299	4,525	4,819	5,279	5,748	6,081	5,860	6,369	7,044	7,448	7,860	8,471	8,814	9,096	9,526
Science	70,492	73,092	73,470	78,883	85,374	86,971	88,736	89,342	93,227	98,007	102,312	109,371	118,221	123,009	125,866	131,748
Natural sciences	33,326	35,471	35,780	39,300	41,970	41,078	40,808	40,144	41,914	43,397	45,331	48,346	52,583	55,873	58,908	66,939
Agricultural sciences	3,858	3,752	4,019	3,955	4,221	4,171	4,100	4,126	4,120	4,349	4,684	5,148	5,843	5,757	5,916	5,792
Biological sciences	6,329	6,487	6,341	6,883	7,644	8,120	8,718	8,794	9,565	9,921	10,668	11,214	12,313	13,048	13,731	14,370

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth, atmospheric, and ocean sciences	1,345	1,363	1,406	1,491	1,570	1,637	1,684	1,632	1,552	1,579	1,677	1,789	2,043	2,080	2,197	2,212
Atmospheric sciences	156	140	141	167	179	212	206	193	199	225	227	221	240	233	263	253
Earth sciences	1,104	1,121	1,151	1,203	1,248	1,314	1,350	1,312	1,222	1,224	1,301	1,429	1,650	1,705	1,782	1,812
Oceanography	85	102	114	121	143	111	128	127	131	130	149	139	153	142	152	147
Mathematics and computer sciences	18,281	20,132	20,389	23,311	24,505	23,086	22,028	21,349	22,303	23,447	23,979	25,722	27,675	30,179	32,419	39,821
Computer sciences	14,986	16,852	16,965	19,590	20,208	18,489	17,138	16,314	17,151	17,988	18,021	19,519	21,001	22,833	24,635	31,552
Mathematics and statistics	3,295	3,280	3,424	3,721	4,297	4,597	4,890	5,035	5,152	5,459	5,958	6,203	6,674	7,346	7,784	8,269
Physical sciences	3,513	3,737	3,625	3,660	4,030	4,064	4,278	4,243	4,374	4,101	4,323	4,473	4,709	4,809	4,645	4,744
Astronomy	102	93	112	123	150	159	146	152	166	139	149	185	127	170	160	156
Chemistry	1,909	2,009	1,867	1,830	2,056	1,912	2,097	2,144	2,236	2,131	2,175	2,324	2,493	2,478	2,431	2,491
Physics	1,244	1,376	1,353	1,453	1,637	1,794	1,853	1,792	1,799	1,657	1,810	1,771	1,879	1,984	1,876	1,934
Other physical sciences	258	259	293	254	187	199	182	155	173	174	189	193	210	177	178	163
Social and behavioral sciences	37,166	37,621	37,690	39,583	43,404	45,893	47,928	49,198	51,313	54,610	56,981	61,025	65,638	67,136	66,958	64,809
Psychology	13,806	14,449	14,204	14,885	15,700	16,478	17,302	18,594	18,836	20,744	21,032	22,363	24,215	25,140	25,332	24,029
Social sciences	23,360	23,172	23,486	24,698	27,704	29,415	30,626	30,604	32,477	33,866	35,949	38,662	41,423	41,996	41,626	40,780
Anthropology	950	1,092	1,017	1,043	1,098	1,107	1,156	1,214	1,145	1,248	1,233	1,243	1,279	1,195	1,316	1,258
Area and ethnic studies	1,511	1,511	1,473	1,427	1,616	1,662	2,017	1,641	1,722	1,672	1,700	1,880	1,857	1,874	1,791	1,858
Economics	2,515	2,492	2,651	2,951	3,201	3,504	3,330	3,351	3,576	3,651	3,732	4,173	4,331	4,287	4,541	4,432
History of science	24	26	35	25	25	29	41	28	47	33	25	44	37	33	28	26

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Linguistics	553	552	520	525	574	611	621	583	610	720	679	711	789	782	728	779
Political science and public administration	13,038	12,937	13,200	14,135	15,780	17,421	18,073	18,525	19,933	20,575	22,083	24,128	26,085	26,762	26,321	25,786
Sociology	2,036	1,901	1,957	1,929	2,031	1,518	1,577	1,575	1,571	1,601	1,453	1,640	1,810	1,652	1,661	1,481
Other social sciences	2,733	2,661	2,633	2,663	3,379	3,563	3,811	3,687	3,873	4,366	5,044	4,843	5,235	5,411	5,240	5,160
Non-S&E	363,912	371,801	385,885	407,743	443,566	458,094	478,366	490,191	505,307	530,956	558,602	585,802	596,016	590,578	588,568	583,025
U.S. citizen or permanent resident																
All fields	404,158	409,897	421,846	444,498	487,965	505,724	527,585	542,133	558,844	585,823	617,074	650,538	668,242	662,486	655,968	646,832
S&E	71,415	72,085	72,074	75,952	83,835	87,402	90,157	91,595	94,318	98,503	103,552	111,438	120,426	123,136	123,884	122,231
Engineering	15,914	15,434	15,380	16,125	18,282	19,034	18,972	19,276	19,749	20,940	21,685	23,895	25,567	25,469	25,471	24,747
Aerospace	339	360	395	417	579	645	683	731	798	839	833	974	1,079	979	991	983
Chemical	721	726	662	656	704	739	734	691	609	626	720	830	916	875	949	1,015
Civil	3,048	2,777	2,591	2,684	2,782	3,080	3,070	2,968	3,054	3,233	3,527	4,296	4,657	4,658	4,583	4,077
Electrical	4,232	3,924	4,004	4,362	5,303	5,214	4,970	5,068	5,211	5,545	5,089	5,155	5,089	4,937	4,838	4,656
Industrial	1,872	1,966	1,945	2,077	2,271	2,178	2,102	2,165	2,077	2,264	2,715	2,839	3,114	3,129	3,188	2,896
Materials	483	406	380	378	417	451	431	456	432	452	460	488	536	578	575	559
Mechanical	2,212	2,221	2,213	2,214	2,630	2,827	2,818	2,841	2,981	2,895	3,133	3,728	3,830	3,802	3,825	3,950
Other	3,007	3,054	3,190	3,337	3,596	3,900	4,164	4,356	4,587	5,086	5,208	5,585	6,346	6,511	6,522	6,611
Science	55,501	56,651	56,694	59,827	65,553	68,368	71,185	72,319	74,569	77,563	81,867	87,543	94,859	97,667	98,413	97,484
Natural sciences	22,990	23,725	24,102	25,722	27,903	28,378	28,828	28,599	28,967	28,982	30,893	32,941	35,832	37,862	39,137	40,387

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Agricultural sciences	3,342	3,281	3,540	3,440	3,575	3,575	3,539	3,587	3,556	3,773	4,102	4,514	5,161	5,018	5,114	4,999
Biological sciences	5,579	5,614	5,536	5,882	6,530	6,910	7,430	7,468	8,100	8,211	8,878	9,313	10,265	11,003	11,586	12,043
Earth, atmospheric, and ocean sciences	1,150	1,191	1,207	1,285	1,312	1,390	1,431	1,416	1,348	1,345	1,436	1,563	1,727	1,763	1,854	1,864
Atmospheric sciences	118	116	113	128	135	166	161	158	173	203	184	200	201	201	219	204
Earth sciences	962	987	1,001	1,046	1,058	1,132	1,162	1,156	1,061	1,039	1,126	1,242	1,390	1,434	1,502	1,530
Oceanography	70	88	93	111	119	92	108	102	114	103	126	121	136	128	133	130
Mathematics and computer sciences	10,546	11,141	11,382	12,632	13,824	13,795	13,573	13,293	13,014	12,886	13,546	14,551	15,588	16,845	17,501	18,376
Computer sciences	8,362	9,091	9,252	10,423	11,312	10,975	10,489	10,027	9,746	9,641	10,066	10,786	11,636	12,725	13,409	14,199
Mathematics and statistics	2,184	2,050	2,130	2,209	2,512	2,820	3,084	3,266	3,268	3,245	3,480	3,765	3,952	4,120	4,092	4,177
Physical sciences	2,373	2,498	2,437	2,483	2,662	2,708	2,855	2,835	2,949	2,767	2,931	3,000	3,091	3,233	3,082	3,105
Astronomy	80	65	77	94	102	122	117	114	128	114	117	134	104	137	119	122
Chemistry	1,310	1,388	1,261	1,297	1,384	1,289	1,396	1,432	1,524	1,436	1,465	1,532	1,627	1,604	1,555	1,615
Physics	761	808	829	851	1,010	1,121	1,175	1,148	1,138	1,064	1,184	1,159	1,191	1,357	1,267	1,244
Other physical sciences	222	237	270	241	166	176	167	141	159	153	165	175	169	135	141	124
Social and behavioral sciences	32,511	32,926	32,592	34,105	37,650	39,990	42,357	43,720	45,602	48,581	50,974	54,602	59,027	59,805	59,276	57,097
Psychology	13,336	13,981	13,719	14,201	15,081	15,827	16,672	17,931	18,182	20,115	20,348	21,649	23,425	24,212	24,491	23,209
Social sciences	19,175	18,945	18,873	19,904	22,569	24,163	25,685	25,789	27,420	28,466	30,626	32,953	35,602	35,593	34,785	33,888
Anthropology	864	1,004	918	960	993	1,034	1,064	1,109	1,053	1,136	1,127	1,158	1,184	1,089	1,215	1,149
Area and ethnic studies	1,282	1,283	1,249	1,201	1,363	1,426	1,756	1,439	1,469	1,423	1,435	1,619	1,604	1,582	1,480	1,564

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Economics	1,209	1,172	1,191	1,337	1,493	1,774	1,778	1,827	1,954	1,992	2,067	2,325	2,459	2,194	2,188	2,093
History of science	22	21	33	18	22	23	32	26	39	28	22	39	32	26	21	22
Linguistics	380	394	351	353	398	422	450	404	442	547	505	536	597	594	549	537
Political science and public administration	11,114	10,954	11,053	11,913	13,415	14,926	15,735	16,235	17,477	17,950	19,550	21,338	23,304	23,655	23,044	22,509
Sociology	1,845	1,744	1,766	1,744	1,832	1,349	1,409	1,411	1,432	1,440	1,300	1,476	1,638	1,481	1,492	1,318
Other social sciences	2,459	2,373	2,312	2,378	3,053	3,209	3,461	3,338	3,554	3,950	4,620	4,462	4,784	4,972	4,796	4,696
Non-S&E	332,743	337,812	349,772	368,546	404,130	418,322	437,428	450,538	464,526	487,320	513,522	539,100	547,816	539,350	532,084	524,601
Hispanic or Latino[a]																
All fields	20,911	22,450	23,356	25,517	29,905	32,435	34,081	36,456	37,354	40,395	43,037	46,594	50,173	52,804	56,007	58,619
S&E	3,762	4,113	4,106	4,384	5,111	5,380	5,681	6,041	6,216	6,634	7,379	8,411	9,459	10,161	10,893	11,392
Engineering	852	835	853	862	1,130	1,145	1,094	1,220	1,243	1,317	1,447	1,709	1,984	2,075	2,209	2,290
Aerospace	13	11	19	13	21	38	26	38	32	34	45	61	68	81	78	88
Chemical	39	40	45	39	40	41	49	43	42	46	37	53	58	62	65	96
Civil	180	167	187	152	163	208	185	199	208	217	268	318	405	425	467	445
Electrical	211	172	179	238	340	274	281	294	294	290	269	373	363	334	380	391
Industrial	172	191	205	162	229	239	212	238	256	283	318	327	406	394	445	397
Materials	15	21	15	6	16	26	17	21	22	16	24	34	35	51	45	44
Mechanical	99	93	87	116	157	151	153	171	160	183	201	222	277	295	305	334
Other	123	140	116	136	164	168	171	216	229	248	285	321	372	433	424	495

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Science	2,910	3,278	3,253	3,522	3,981	4,235	4,587	4,821	4,973	5,317	5,932	6,702	7,475	8,086	8,684	9,102
Natural sciences	935	1,124	1,050	1,252	1,392	1,362	1,459	1,451	1,490	1,528	1,777	1,975	2,258	2,422	2,667	2,920
Agricultural sciences	133	123	175	132	171	185	196	176	157	206	227	264	302	295	305	314
Biological sciences	268	310	267	268	330	362	373	418	466	461	519	581	677	754	872	916
Earth, atmospheric, and ocean sciences	30	28	35	28	36	47	51	42	57	41	53	81	83	80	97	104
Atmospheric sciences	2	0	1	2	2	3	2	5	11	6	2	9	9	8	15	12
Earth sciences	26	25	31	24	32	43	47	33	43	32	44	66	72	68	77	86
Oceanography	2	3	3	2	2	1	2	4	3	3	7	6	2	4	5	6
Mathematics and computer sciences	408	544	437	680	728	628	671	670	654	655	817	875	1,042	1,106	1,196	1,354
Computer sciences	308	472	355	572	615	498	506	491	473	497	651	659	809	815	921	1,056
Mathematics and statistics	100	72	82	108	113	130	165	179	181	158	166	216	233	291	275	298
Physical sciences	96	119	136	144	127	140	168	145	156	165	161	174	154	187	197	232
Astronomy	2	1	2	2	3	2	6	3	6	4	3	6	4	5	5	5
Chemistry	56	74	72	90	70	84	107	79	90	89	96	107	82	99	116	123
Physics	34	37	56	41	44	49	54	60	53	67	56	54	65	77	71	100
Other physical sciences	4	7	6	11	10	5	1	3	7	5	6	7	3	6	5	4
Social and behavioral sciences	1,975	2,154	2,203	2,270	2,589	2,873	3,128	3,370	3,483	3,789	4,155	4,727	5,217	5,664	6,017	6,182
Psychology	842	946	962	974	1,102	1,222	1,331	1,466	1,543	1,670	1,812	2,051	2,161	2,547	2,566	2,664
Social sciences	1,133	1,208	1,241	1,296	1,487	1,651	1,797	1,904	1,940	2,119	2,343	2,676	3,056	3,117	3,451	3,518

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Anthropology	37	45	59	48	58	62	60	67	59	83	80	89	81	108	85	98
Area and ethnic studies	97	111	109	119	116	132	174	144	184	164	188	187	225	215	250	248
Economics	67	53	57	79	80	111	100	86	81	92	90	152	161	160	146	164
History of science	0	1	0	1	0	0	0	1	1	1	1	1	3	2	1	2
Linguistics	18	27	19	23	26	26	42	37	33	43	31	42	58	56	59	50
Political science and public administration	702	736	743	802	909	1,026	1,070	1,248	1,252	1,343	1,541	1,706	1,964	2,019	2,308	2,305
Sociology	110	116	140	117	139	111	126	112	105	140	112	166	201	177	209	192
Other social sciences	102	119	114	107	159	183	225	209	225	253	300	333	363	380	393	459
Non-S&E	17,149	18,337	19,250	21,133	24,794	27,055	28,400	30,415	31,138	33,761	35,658	38,183	40,714	42,643	45,114	47,227
Not Hispanic or Latino																
All fields	383,247	387,447	398,490	418,981	458,060	473,289	493,504	505,677	521,490	545,428	574,037	603,944	618,069	609,682	599,961	588,213
S&E	67,653	67,972	67,968	71,568	78,724	82,022	84,476	85,554	88,102	91,869	96,173	103,027	110,967	112,975	112,991	110,839
Engineering	15,062	14,599	14,527	15,263	17,152	17,889	17,878	18,056	18,506	19,623	20,238	22,186	23,583	23,394	23,262	22,457
Aerospace	326	349	376	404	558	607	657	693	766	805	788	913	1,011	898	913	895
Chemical	682	686	617	617	664	698	685	648	567	580	683	777	858	813	884	919
Civil	2,868	2,610	2,404	2,532	2,619	2,872	2,885	2,769	2,846	3,016	3,259	3,978	4,252	4,233	4,116	3,632
Electrical	4,021	3,752	3,825	4,124	4,963	4,940	4,689	4,774	4,917	5,255	4,820	4,782	4,726	4,603	4,458	4,265
Industrial	1,700	1,775	1,740	1,915	2,042	1,939	1,890	1,927	1,821	1,981	2,397	2,512	2,708	2,735	2,743	2,499

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Materials	468	385	365	372	401	425	414	435	410	436	436	454	501	527	530	515
Mechanical	2,113	2,128	2,126	2,098	2,473	2,676	2,665	2,670	2,821	2,712	2,932	3,506	3,553	3,507	3,520	3,616
Other	2,884	2,914	3,074	3,201	3,432	3,732	3,993	4,140	4,358	4,838	4,923	5,264	5,974	6,078	6,098	6,116
Science	52,591	53,373	53,441	56,305	61,572	64,133	66,598	67,498	69,596	72,246	75,935	80,841	87,384	89,581	89,729	88,382
Natural sciences	22,055	22,601	23,052	24,470	26,511	27,016	27,369	27,148	27,477	27,454	29,116	30,966	33,574	35,440	36,470	37,467
Agricultural sciences	3,209	3,158	3,365	3,308	3,404	3,390	3,343	3,411	3,399	3,567	3,875	4,250	4,859	4,723	4,809	4,685
Biological sciences	5,311	5,304	5,269	5,614	6,200	6,548	7,057	7,050	7,634	7,750	8,359	8,732	9,588	10,249	10,714	11,127
Earth, atmospheric, and ocean sciences	1,120	1,163	1,172	1,257	1,276	1,343	1,380	1,374	1,291	1,304	1,383	1,482	1,644	1,683	1,757	1,760
Atmospheric sciences	116	116	112	126	133	163	159	153	162	197	182	191	192	193	204	192
Earth sciences	936	962	970	1,022	1,026	1,089	1,115	1,123	1,018	1,007	1,082	1,176	1,318	1,366	1,425	1,444
Oceanography	68	85	90	109	117	91	106	98	111	100	119	115	134	124	128	124
Mathematics and computer sciences	10,138	10,597	10,945	11,952	13,096	13,167	12,902	12,623	12,360	12,231	12,729	13,676	14,546	15,739	16,305	17,022
Computer sciences	8,054	8,619	8,897	9,851	10,697	10,477	9,983	9,536	9,273	9,144	9,415	10,127	10,827	11,910	12,488	13,143
Mathematics and statistics	2,084	1,978	2,048	2,101	2,399	2,690	2,919	3,087	3,087	3,087	3,314	3,549	3,719	3,829	3,817	3,879
Physical sciences	2,277	2,379	2,301	2,339	2,535	2,568	2,687	2,690	2,793	2,602	2,770	2,826	2,937	3,046	2,885	2,873
Astronomy	78	64	75	92	99	120	111	111	122	110	114	128	100	132	114	117
Chemistry	1,254	1,314	1,189	1,207	1,314	1,205	1,289	1,353	1,434	1,347	1,369	1,425	1,545	1,505	1,439	1,492
Physics	727	771	773	810	966	1,072	1,121	1,088	1,085	997	1,128	1,105	1,126	1,280	1,196	1,144
Other physical sciences	218	230	264	230	156	171	166	138	152	148	159	168	166	129	136	120

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Social and behavioral sciences	30,536	30,772	30,389	31,835	35,061	37,117	39,229	40,350	42,119	44,792	46,819	49,875	53,810	54,141	53,259	50,915
Psychology	12,494	13,035	12,757	13,227	13,979	14,605	15,341	16,465	16,639	18,445	18,536	19,598	21,264	21,665	21,925	20,545
Social sciences	18,042	17,737	17,632	18,608	21,082	22,512	23,888	23,885	25,480	26,347	28,283	30,277	32,546	32,476	31,334	30,370
Anthropology	827	959	859	912	935	972	1,004	1,042	994	1,053	1,047	1,069	1,103	981	1,130	1,051
Area and ethnic studies	1,185	1,172	1,140	1,082	1,247	1,294	1,582	1,295	1,285	1,259	1,247	1,432	1,379	1,367	1,230	1,316
Economics	1,142	1,119	1,134	1,258	1,413	1,663	1,678	1,741	1,873	1,900	1,977	2,173	2,298	2,034	2,042	1,929
History of science	22	20	33	17	22	23	32	25	38	27	21	38	29	24	20	20
Linguistics	362	367	332	330	372	396	408	367	409	504	474	494	539	538	490	487
Political science and public administration	10,412	10,218	10,310	11,111	12,506	13,900	14,665	14,987	16,225	16,607	18,009	19,632	21,340	21,636	20,736	20,204
Sociology	1,735	1,628	1,626	1,627	1,693	1,238	1,283	1,299	1,327	1,300	1,188	1,310	1,437	1,304	1,283	1,126
Other social sciences	2,357	2,254	2,198	2,271	2,894	3,026	3,236	3,129	3,329	3,697	4,320	4,129	4,421	4,592	4,403	4,237
Non-S&E	315,594	319,475	330,522	347,413	379,336	391,267	409,028	420,123	433,388	453,559	477,864	500,917	507,102	496,707	486,970	477,374
American Indian or Alaska Native																
All fields	2,109	2,293	2,410	2,574	2,857	2,969	3,142	3,178	3,324	3,310	3,464	3,507	3,275	3,350	3,188	3,116
S&E	383	476	421	457	540	501	568	552	553	560	629	584	603	597	589	548
Engineering	64	60	56	69	85	82	87	73	86	89	87	78	92	79	55	59
Aerospace	0	2	4	2	6	2	8	5	1	7	9	3	1	6	3	3
Chemical	3	4	2	2	0	4	2	7	3	3	3	2	2	1	0	3

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Civil	14	10	11	13	16	13	17	15	13	18	12	16	17	14	12	9
Electrical	14	10	13	18	10	20	17	5	28	18	22	10	15	11	6	8
Industrial	8	15	8	8	19	18	9	13	14	13	12	15	20	13	10	11
Materials	4	1	2	1	1	1	1	0	2	0	2	0	3	3	0	2
Mechanical	7	7	6	9	21	6	11	12	10	9	12	13	13	10	8	5
Other	14	11	10	16	12	18	22	16	15	21	15	19	21	21	16	18
Science	319	416	365	388	455	419	481	479	467	471	542	506	511	518	534	489
Natural sciences	108	147	119	126	136	134	168	141	162	137	160	161	173	160	146	158
Agricultural sciences	23	18	25	24	23	27	35	34	31	26	35	34	34	36	20	40
Biological sciences	26	29	34	31	33	29	46	32	55	38	52	40	48	39	49	43
Earth, atmospheric, and ocean sciences	9	11	4	9	7	11	4	9	7	10	8	13	17	15	4	6
Atmospheric sciences	0	0	0	0	0	1	0	1	0	0	0	2	0	2	0	0
Earth sciences	9	8	4	9	7	10	4	8	7	10	7	10	16	12	3	6
Oceanography	0	3	0	0	0	0	0	0	0	0	1	1	1	1	1	0
Mathematics and computer sciences	41	80	41	50	65	56	69	54	55	44	56	62	63	54	61	62
Computer sciences	32	71	33	42	58	47	58	40	44	36	45	48	52	45	56	53
Mathematics and statistics	9	9	8	8	7	9	11	14	11	8	11	14	11	9	5	9
Physical sciences	9	9	15	12	8	11	14	12	14	19	9	12	11	16	12	7
Astronomy	0	0	0	1	0	1	0	0	0	1	1	2	0	1	0	0

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Chemistry	5	7	11	5	3	6	9	8	8	9	5	5	6	10	7	4
Physics	3	2	4	5	5	3	3	3	5	8	3	3	4	5	4	3
Other physical sciences	1	0	0	1	0	1	2	1	1	1	0	2	1	0	1	0
Social and behavioral sciences	211	269	246	262	319	285	313	338	305	334	382	345	338	358	388	331
Psychology	69	107	97	109	112	118	118	114	104	116	123	116	113	140	154	119
Social sciences	142	162	149	153	207	167	195	224	201	218	259	229	225	218	234	212
Anthropology	14	17	12	11	19	14	21	25	16	16	19	14	14	12	13	5
Area and ethnic studies	16	20	20	33	27	27	28	25	32	25	28	23	29	28	22	36
Economics	3	7	10	6	6	10	3	12	8	9	12	8	4	8	4	2
History of science	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	1
Linguistics	1	1	4	1	2	6	2	2	2	4	16	7	5	6	6	2
Political science and public administration	62	70	74	78	118	90	107	134	117	135	136	137	134	134	161	142
Sociology	30	28	17	17	17	7	10	9	12	8	11	8	15	7	6	7
Other social sciences	16	18	11	7	18	13	24	17	14	21	37	32	24	23	20	17
Non-S&E	1,726	1,817	1,989	2,117	2,317	2,468	2,574	2,626	2,771	2,750	2,835	2,923	2,672	2,753	2,599	2,568
Asian																
All fields	na	na	na	na	na	na	na	na	na	na	na	37,473	38,490	38,950	38,800	39,188
S&E	na	na	na	na	na	na	na	na	na	na	na	10,347	10,538	10,992	10,785	10,976

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Engineering	na	na	na	na	na	na	na	na	na	na	na	3,942	3,792	3,867	3,574	3,469
Aerospace	na	na	na	na	na	na	na	na	na	na	na	109	126	111	110	98
Chemical	na	na	na	na	na	na	na	na	na	na	na	153	164	153	171	174
Civil	na	na	na	na	na	na	na	na	na	na	na	481	511	501	478	406
Electrical	na	na	na	na	na	na	na	na	na	na	na	1,430	1,264	1,326	1,089	1,083
Industrial	na	na	na	na	na	na	na	na	na	na	na	362	330	376	325	290
Materials	na	na	na	na	na	na	na	na	na	na	na	73	67	102	98	94
Mechanical	na	na	na	na	na	na	na	na	na	na	na	466	428	433	432	475
Other	na	na	na	na	na	na	na	na	na	na	na	868	902	865	871	849
Science	na	na	na	na	na	na	na	na	na	na	na	6,405	6,746	7,125	7,211	7,507
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	3,912	3,991	4,390	4,553	4,941
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	199	218	184	185	166
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	1,244	1,416	1,554	1,623	1,723
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	37	39	41	42	53
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	6	5	5	4	5
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	27	34	27	34	45
Oceanography	na	na	na	na	na	na	na	na	na	na	na	4	0	9	4	3
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	2,128	2,065	2,297	2,425	2,727
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	1,618	1,566	1,738	1,881	2,174

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	510	499	559	544	553
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	304	253	314	278	272
Astronomy	na	na	na	na	na	na	na	na	na	na	na	8	6	14	9	10
Chemistry	na	na	na	na	na	na	na	na	na	na	na	206	171	202	195	183
Physics	na	na	na	na	na	na	na	na	na	na	na	80	72	93	71	73
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	10	4	5	3	6
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	2,493	2,755	2,735	2,658	2,566
Psychology	na	na	na	na	na	na	na	na	na	na	na	753	879	908	885	833
Social sciences	na	na	na	na	na	na	na	na	na	na	na	1,740	1,876	1,827	1,773	1,733
Anthropology	na	na	na	na	na	na	na	na	na	na	na	43	38	27	38	39
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	100	100	108	96	88
Economics	na	na	na	na	na	na	na	na	na	na	na	219	272	230	211	231
History of science	na	na	na	na	na	na	na	na	na	na	na	1	2	1	2	2
Linguistics	na	na	na	na	na	na	na	na	na	na	na	38	41	44	45	27
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	1,077	1,135	1,140	1,138	1,104
Sociology	na	na	na	na	na	na	na	na	na	na	na	86	84	81	58	61
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	176	204	196	185	181
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	27,126	27,952	27,958	28,015	28,212

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Asian or Pacific Islander[b]																
All fields	21,720	22,309	23,134	24,616	27,526	29,378	30,362	32,056	32,942	35,086	37,307	na	na	na	na	na
S&E	7,032	7,056	6,839	7,601	8,642	8,891	8,731	9,088	9,177	9,664	9,959	na	na	na	na	na
Engineering	2,380	2,399	2,190	2,431	3,016	3,094	3,186	3,355	3,494	3,929	3,736	na	na	na	na	na
Aerospace	26	37	29	39	51	55	64	74	74	82	87	na	na	na	na	na
Chemical	114	120	96	96	135	106	110	103	93	101	115	na	na	na	na	na
Civil	283	220	203	240	254	298	277	306	298	309	354	na	na	na	na	na
Electrical	1,062	1,014	915	1,047	1,435	1,381	1,333	1,444	1,548	1,958	1,580	na	na	na	na	na
Industrial	192	210	189	273	284	332	319	313	301	272	301	na	na	na	na	na
Materials	54	55	43	52	53	64	63	65	65	68	70	na	na	na	na	na
Mechanical	265	358	315	262	347	324	360	343	370	359	385	na	na	na	na	na
Other	384	385	400	422	457	534	660	707	745	780	844	na	na	na	na	na
Science	4,652	4,657	4,649	5,170	5,626	5,797	5,545	5,733	5,683	5,735	6,223	na	na	na	na	na
Natural sciences	3,199	3,164	3,165	3,530	3,760	3,748	3,406	3,526	3,396	3,365	3,675	na	na	na	na	na
Agricultural sciences	94	97	126	99	111	111	84	128	102	137	165	na	na	na	na	na
Biological sciences	595	540	537	646	762	795	820	883	977	1,037	1,245	na	na	na	na	na
Earth, atmospheric, and ocean sciences	22	28	37	28	39	31	30	25	38	24	45	na	na	na	na	na
Atmospheric sciences	4	5	7	4	5	4	5	5	5	3	3	na	na	na	na	na
Earth sciences	17	17	25	18	28	26	23	16	27	17	37	na	na	na	na	na

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Oceanography	1	6	5	6	6	1	2	4	6	4	5	na	na	na	na	na
Mathematics and computer sciences	2,248	2,279	2,252	2,526	2,652	2,568	2,252	2,211	2,043	1,908	1,929	na	na	na	na	na
Computer sciences	2,068	2,074	2,038	2,305	2,377	2,244	1,856	1,754	1,627	1,477	1,470	na	na	na	na	na
Mathematics and statistics	180	205	214	221	275	324	396	457	416	431	459	na	na	na	na	na
Physical sciences	240	220	213	231	196	243	220	279	236	259	291	na	na	na	na	na
Astronomy	5	5	4	7	6	7	2	4	2	12	7	na	na	na	na	na
Chemistry	172	153	125	157	128	154	137	177	154	178	186	na	na	na	na	na
Physics	53	56	66	57	60	74	78	94	78	66	93	na	na	na	na	na
Other physical sciences	10	6	18	10	2	8	3	4	2	3	5	na	na	na	na	na
Social and behavioral sciences	1,453	1,493	1,484	1,640	1,866	2,049	2,139	2,207	2,287	2,370	2,548	na	na	na	na	na
Psychology	473	503	530	531	593	597	651	733	724	765	781	na	na	na	na	na
Social sciences	980	990	954	1,109	1,273	1,452	1,488	1,474	1,563	1,605	1,767	na	na	na	na	na
Anthropology	39	39	34	42	43	44	39	51	46	59	53	na	na	na	na	na
Area and ethnic studies	78	101	90	97	93	111	126	110	113	117	126	na	na	na	na	na
Economics	132	113	119	156	157	185	207	191	211	221	194	na	na	na	na	na
History of science	0	0	2	2	3	1	1	1	1	1	1	na	na	na	na	na
Linguistics	42	43	26	32	37	41	43	32	35	38	36	na	na	na	na	na
Political science and public administration	516	534	512	601	717	855	862	880	952	942	1,106	na	na	na	na	na

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Sociology	66	70	86	95	106	78	71	62	67	67	56	na	na	na	na	na
Other social sciences	107	90	85	84	117	137	139	147	138	160	195	na	na	na	na	na
Non-S&E	14,688	15,253	16,295	17,015	18,884	20,487	21,631	22,968	23,765	25,422	27,348	na	na	na	na	na
Black or African American																
All fields	33,589	35,426	36,936	40,090	45,183	49,109	52,844	55,624	57,473	61,713	66,817	71,393	75,732	79,618	80,576	79,680
S&E	5,563	6,174	6,230	6,919	7,511	7,764	8,011	8,371	8,908	9,339	10,292	10,961	12,069	13,112	13,280	13,239
Engineering	658	699	735	823	853	869	883	926	977	971	1,098	1,180	1,244	1,255	1,228	1,323
Aerospace	7	10	14	7	11	19	22	26	25	19	30	25	18	22	29	18
Chemical	34	34	31	43	31	56	37	39	46	31	46	42	48	66	50	62
Civil	93	102	101	96	76	100	88	106	118	106	137	152	169	177	161	148
Electrical	183	188	189	226	238	230	226	251	260	246	235	291	254	251	235	258
Industrial	90	119	141	158	170	152	171	152	155	166	214	232	230	233	239	256
Materials	15	9	19	14	21	19	12	9	15	25	16	14	19	17	21	21
Mechanical	91	89	71	78	85	81	86	85	101	86	89	104	116	100	104	115
Other	145	148	169	201	221	212	241	258	257	292	331	320	390	389	389	445
Science	4,905	5,475	5,495	6,096	6,658	6,895	7,128	7,445	7,931	8,368	9,194	9,781	10,825	11,857	12,052	11,916
Natural sciences	1,179	1,382	1,374	1,606	1,678	1,602	1,691	1,753	1,878	1,826	2,052	2,322	2,651	3,108	3,140	3,337
Agricultural sciences	84	96	88	103	102	85	96	113	98	124	132	180	166	187	190	189
Biological sciences	223	313	288	298	385	377	406	438	500	474	512	599	673	752	785	847

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth, atmospheric, and ocean sciences	7	21	18	18	22	17	30	23	29	26	18	29	38	45	39	45
Atmospheric sciences	0	4	2	2	3	3	7	3	4	6	4	4	4	6	6	4
Earth sciences	6	15	15	13	16	13	21	18	22	18	13	25	33	37	33	40
Oceanography	1	2	1	3	3	1	2	2	3	2	1	0	1	2	0	1
Mathematics and computer sciences	748	822	859	1,075	1,049	1,022	1,007	1,056	1,106	1,059	1,265	1,376	1,600	1,983	1,994	2,117
Computer sciences	650	709	746	977	934	887	853	898	950	919	1,111	1,212	1,420	1,776	1,801	1,913
Mathematics and statistics	98	113	113	98	115	135	154	158	156	140	154	164	180	207	193	204
Physical sciences	117	130	121	112	120	101	152	123	145	143	125	138	174	141	132	139
Astronomy	0	0	2	1	1	2	3	0	0	4	0	0	2	1	3	1
Chemistry	65	82	74	76	87	55	93	74	110	97	90	93	129	84	102	97
Physics	44	41	37	32	27	39	51	43	30	36	30	40	34	49	22	34
Other physical sciences	8	7	8	3	5	5	5	6	5	6	5	5	9	7	5	7
Social and behavioral sciences	3,726	4,093	4,121	4,490	4,980	5,293	5,437	5,692	6,053	6,542	7,142	7,459	8,174	8,749	8,912	8,579
Psychology	1,347	1,601	1,643	1,829	1,942	2,142	1,996	2,253	2,411	2,724	2,640	2,856	3,137	3,179	3,313	3,089
Social sciences	2,379	2,492	2,478	2,661	3,038	3,151	3,441	3,439	3,642	3,818	4,502	4,603	5,037	5,570	5,599	5,490
Anthropology	33	37	32	33	31	30	32	41	43	30	33	30	42	32	31	28
Area and ethnic studies	91	86	108	121	127	135	136	142	156	152	145	184	157	142	142	149
Economics	71	66	76	67	70	96	100	101	120	111	117	121	120	149	124	134
History of science	0	1	2	0	0	0	1	2	2	1	2	0	0	1	2	1

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Linguistics	4	14	5	7	3	9	13	14	7	16	15	18	17	16	18	21
Political science and public administration	1,585	1,754	1,718	1,861	2,057	2,243	2,451	2,490	2,668	2,825	3,296	3,507	3,949	4,319	4,312	4,239
Sociology	344	294	285	274	301	205	201	190	201	202	205	198	203	220	250	197
Other social sciences	251	240	252	298	449	433	507	459	445	481	689	545	549	691	720	721
Non-S&E	28,026	29,252	30,706	33,171	37,672	41,345	44,833	47,253	48,565	52,374	56,525	60,432	63,663	66,506	67,296	66,441
Native Hawaiian or Other Pacific Islander[b]																
All fields	na	na	na	na	na	na	na	na	na	na	na	1,272	1,521	1,687	1,755	1,519
S&E	na	na	na	na	na	na	na	na	na	na	na	230	238	255	273	269
Engineering	na	na	na	na	na	na	na	na	na	na	na	19	37	34	35	35
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	2	1	1	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	0	2	1	1	0
Civil	na	na	na	na	na	na	na	na	na	na	na	4	8	9	4	7
Electrical	na	na	na	na	na	na	na	na	na	na	na	5	2	7	5	9
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	8	2	9	2
Materials	na	na	na	na	na	na	na	na	na	na	na	1	0	3	0	0
Mechanical	na	na	na	na	na	na	na	na	na	na	na	2	4	5	0	5
Other	na	na	na	na	na	na	na	na	na	na	na	7	11	6	15	12
Science	na	na	na	na	na	na	na	na	na	na	na	211	201	221	238	234

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	68	61	70	70	78
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	4	7	15	7	12
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	23	26	22	20	20
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	4	0	1	2	2
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	1	0	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	3	0	1	2	2
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	33	23	25	38	42
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	28	17	24	35	38
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	5	6	1	3	4
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	4	5	7	3	2
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	2	3	4	2	1
Physics	na	na	na	na	na	na	na	na	na	na	na	1	2	3	1	1
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	1	0	0	0	0
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	143	140	151	168	156
Psychology	na	na	na	na	na	na	na	na	na	na	na	43	56	59	72	60
Social sciences	na	na	na	na	na	na	na	na	na	na	na	100	84	92	96	96
Anthropology	na	na	na	na	na	na	na	na	na	na	na	1	5	1	0	1

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	7	13	9	10	5
Economics	na	na	na	na	na	na	na	na	na	na	na	2	2	4	5	0
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	1	1	0
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	79	55	70	64	74
Sociology	na	na	na	na	na	na	na	na	na	na	na	0	1	1	3	0
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	11	8	6	13	16
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	1,042	1,283	1,432	1,482	1,250
White																
All fields	299,781	296,202	299,441	309,126	330,212	342,100	352,593	355,075	362,206	374,920	389,668	410,814	418,925	413,610	405,699	396,460
S&E	50,130	48,920	48,583	50,191	54,729	56,535	58,127	58,408	59,126	60,774	62,633	67,712	73,302	73,856	74,278	72,869
Engineering	11,020	10,391	10,337	10,615	11,763	12,198	12,084	11,949	12,077	12,428	12,919	14,579	16,004	15,556	15,591	15,263
Aerospace	284	277	310	327	444	490	506	534	601	650	600	699	805	694	708	711
Chemical	501	487	435	431	455	452	481	435	369	388	445	505	561	524	595	590
Civil	2,337	2,128	1,930	1,994	2,089	2,245	2,277	2,126	2,196	2,252	2,399	2,993	3,183	3,046	3,014	2,748
Electrical	2,474	2,216	2,287	2,401	2,815	2,785	2,609	2,580	2,546	2,446	2,396	2,513	2,690	2,513	2,425	2,435
Industrial	1,238	1,266	1,247	1,298	1,364	1,226	1,207	1,218	1,168	1,255	1,517	1,541	1,787	1,766	1,806	1,702
Materials	373	293	282	280	304	314	305	328	288	309	304	326	363	364	379	354

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mechanical	1,630	1,557	1,583	1,605	1,840	2,042	1,968	1,997	2,073	2,011	2,157	2,624	2,699	2,628	2,595	2,636
Other	2,183	2,167	2,263	2,279	2,452	2,644	2,731	2,731	2,836	3,117	3,101	3,378	3,916	4,021	4,069	4,087
Science	39,110	38,529	38,246	39,576	42,966	44,337	46,043	46,459	47,049	48,346	49,714	53,133	57,298	58,300	58,687	57,606
Natural sciences	16,154	15,989	16,270	16,947	18,313	18,794	19,270	18,851	18,767	18,622	19,462	20,666	22,714	23,581	24,339	24,781
Agricultural sciences	2,864	2,782	2,951	2,898	2,953	2,930	2,880	2,886	2,953	3,023	3,177	3,484	4,043	3,887	3,987	3,860
Biological sciences	4,183	4,124	4,088	4,291	4,617	4,876	5,248	5,073	5,242	5,299	5,594	5,838	6,438	6,828	7,126	7,309
Earth, atmospheric, and ocean sciences	1,036	1,043	1,065	1,125	1,144	1,197	1,217	1,232	1,114	1,148	1,181	1,278	1,411	1,444	1,519	1,512
Atmospheric sciences	111	99	98	117	120	149	141	140	148	177	164	170	172	169	179	166
Earth sciences	861	876	890	914	921	963	982	1,006	869	884	910	1,011	1,118	1,174	1,227	1,239
Oceanography	64	68	77	94	103	85	94	86	97	87	107	97	121	101	113	107
Mathematics and computer sciences	6,296	6,166	6,383	6,808	7,576	7,800	7,830	7,650	7,368	7,258	7,505	8,005	8,591	9,158	9,524	9,953
Computer sciences	4,641	4,651	4,828	5,185	5,781	5,818	5,715	5,463	5,176	5,080	5,183	5,553	5,987	6,525	6,797	7,223
Mathematics and statistics	1,655	1,515	1,555	1,623	1,795	1,982	2,115	2,187	2,192	2,178	2,322	2,452	2,604	2,633	2,727	2,730
Physical sciences	1,775	1,874	1,783	1,825	2,023	1,991	2,095	2,010	2,090	1,894	2,005	2,061	2,231	2,264	2,183	2,147
Astronomy	65	47	59	67	76	98	97	91	106	80	93	98	82	101	90	95
Chemistry	930	992	877	905	1,012	886	963	977	1,032	941	926	964	1,110	1,061	997	1,058
Physics	585	627	613	642	790	851	883	820	838	754	855	868	901	995	990	903
Other physical sciences	195	208	234	211	145	156	152	122	114	119	131	131	138	107	106	91
Social and behavioral sciences	22,956	22,540	21,976	22,629	24,653	25,543	26,773	27,608	28,282	29,724	30,252	32,467	34,584	34,719	34,348	32,825

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Psychology	9,721	9,885	9,452	9,694	10,175	10,410	11,048	11,646	11,561	12,581	12,484	13,227	14,025	14,542	14,848	13,955
Social sciences	13,235	12,655	12,524	12,935	14,478	15,133	15,725	15,962	16,721	17,143	17,768	19,240	20,559	20,177	19,500	18,870
Anthropology	686	800	705	743	770	779	786	811	778	843	819	825	863	772	881	857
Area and ethnic studies	890	792	763	691	838	809	938	825	813	786	797	942	937	920	797	864
Economics	839	840	827	828	927	1,097	1,077	1,161	1,173	1,271	1,203	1,469	1,542	1,374	1,418	1,307
History of science	20	18	23	13	17	20	29	20	34	25	17	34	24	17	12	15
Linguistics	295	284	270	258	290	300	298	282	311	383	351	368	414	390	362	378
Political science and public administration	7,429	7,013	7,066	7,518	8,361	9,107	9,406	9,723	10,272	10,319	10,854	11,809	12,648	12,631	12,170	11,833
Sociology	1,254	1,178	1,183	1,177	1,202	858	906	912	915	894	796	863	977	876	847	743
Other social sciences	1,822	1,730	1,687	1,707	2,073	2,163	2,285	2,228	2,425	2,622	2,931	2,930	3,154	3,197	3,013	2,873
Non-S&E	249,651	247,282	250,858	258,935	275,483	285,565	294,466	296,667	303,080	314,146	327,035	343,102	345,623	339,754	331,421	323,591
Two or more races[c]																
All fields	na	na	na	na	na	na	na	na	na	na	na	5,970	8,723	10,720	12,229	13,375
S&E	na	na	na	na	na	na	na	na	na	na	na	1,335	2,072	2,545	2,913	3,105
Engineering	na	na	na	na	na	na	na	na	na	na	na	296	391	492	568	585
Aerospace	na	na	na	na	na	na	na	na	na	na	na	15	20	23	23	30
Chemical	na	na	na	na	na	na	na	na	na	na	na	15	18	13	14	30
Civil	na	na	na	na	na	na	na	na	na	na	na	50	87	104	116	95

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Electrical	na	na	na	na	na	na	na	na	na	na	na	62	64	85	103	95
Industrial	na	na	na	na	na	na	na	na	na	na	na	43	39	56	59	53
Materials	na	na	na	na	na	na	na	na	na	na	na	5	12	15	16	18
Mechanical	na	na	na	na	na	na	na	na	na	na	na	36	50	72	98	89
Other	na	na	na	na	na	na	na	na	na	na	na	70	101	124	139	175
Science	na	na	na	na	na	na	na	na	na	na	na	1,039	1,681	2,053	2,345	2,520
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	341	559	810	902	1,025
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	48	71	95	109	128
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	110	167	283	326	332
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	9	25	42	53	33
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	2	3	3	5
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	9	22	38	45	27
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	1	1	5	1
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	141	242	308	358	446
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	107	179	229	290	345
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	34	63	79	68	101
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	33	54	82	56	86
Astronomy	na	na	na	na	na	na	na	na	na	na	na	3	1	2	2	4
Chemistry	na	na	na	na	na	na	na	na	na	na	na	17	26	36	31	50

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Physics	na	na	na	na	na	na	na	na	na	na	na	9	23	41	21	29
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	4	4	3	2	3
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	698	1,122	1,243	1,443	1,495
Psychology	na	na	na	na	na	na	na	na	na	na	na	241	407	480	500	541
Social sciences	na	na	na	na	na	na	na	na	na	na	na	457	715	763	943	954
Anthropology	na	na	na	na	na	na	na	na	na	na	na	17	31	36	55	44
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	35	49	59	60	66
Economics	na	na	na	na	na	na	na	na	na	na	na	41	50	55	45	47
History of science	na	na	na	na	na	na	na	na	na	na	na	0	1	1	1	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	5	17	17	16	19
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	267	416	463	579	603
Sociology	na	na	na	na	na	na	na	na	na	na	na	27	43	46	56	53
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	65	108	86	131	122
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	4,635	6,651	8,175	9,316	10,270
Other or unknown race and ethnicity																
All fields	26,048	31,217	36,569	42,575	52,282	49,733	54,563	59,744	65,545	70,399	76,781	73,515	71,403	61,747	57,714	54,875
S&E	4,545	5,346	5,895	6,400	7,302	8,331	9,039	9,135	10,338	11,532	12,660	11,858	12,145	11,618	10,873	9,833
Engineering	940	1,050	1,209	1,325	1,435	1,646	1,638	1,753	1,872	2,206	2,398	2,092	2,023	2,111	2,211	1,723

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aerospace	9	23	19	29	46	41	57	54	65	47	62	62	39	41	39	35
Chemical	30	41	53	45	43	80	55	64	56	57	74	60	63	55	53	60
Civil	141	150	159	189	184	216	226	216	221	331	357	282	277	382	331	219
Electrical	288	324	421	432	465	524	504	494	535	587	587	471	437	410	595	377
Industrial	172	165	155	178	205	211	184	231	183	275	353	319	294	289	295	185
Materials	22	27	19	25	22	27	33	33	40	34	44	35	37	23	16	26
Mechanical	120	117	151	144	180	223	240	233	267	247	289	261	243	259	283	291
Other	158	203	232	283	290	324	339	428	505	628	632	602	633	652	599	530
Science	3,605	4,296	4,686	5,075	5,867	6,685	7,401	7,382	8,466	9,326	10,262	9,766	10,122	9,507	8,662	8,110
Natural sciences	1,415	1,919	2,124	2,261	2,624	2,738	2,834	2,877	3,274	3,504	3,767	3,496	3,425	3,321	3,320	3,147
Agricultural sciences	144	165	175	184	215	237	248	250	215	257	366	301	320	319	311	290
Biological sciences	284	298	322	348	403	471	537	624	860	902	956	878	820	771	785	853
Earth, atmospheric, and ocean sciences	46	60	48	77	64	87	99	85	103	96	131	112	114	95	98	109
Atmospheric sciences	1	8	5	3	5	6	6	4	5	11	11	8	9	8	12	12
Earth sciences	43	46	36	68	54	77	85	75	93	78	115	91	95	77	81	85
Oceanography	2	6	7	6	5	4	8	6	5	7	5	13	10	10	5	12
Mathematics and computer sciences	805	1,250	1,410	1,493	1,754	1,721	1,744	1,652	1,788	1,962	1,974	1,931	1,962	1,914	1,905	1,675
Computer sciences	663	1,114	1,252	1,342	1,547	1,481	1,501	1,381	1,476	1,632	1,606	1,561	1,606	1,573	1,628	1,397
Mathematics and statistics	142	136	158	151	207	240	243	271	312	330	368	370	356	341	277	278

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Physical sciences	136	146	169	159	188	222	206	266	308	287	340	274	209	222	221	220
Astronomy	8	12	10	16	16	12	9	16	14	13	13	17	9	13	10	7
Chemistry	82	80	102	64	84	104	87	117	130	122	162	138	100	108	105	99
Physics	42	45	53	74	84	105	106	128	134	133	147	104	90	94	87	101
Other physical sciences	4	9	4	5	4	1	4	5	30	19	18	15	10	7	19	13
Social and behavioral sciences	2,190	2,377	2,562	2,814	3,243	3,947	4,567	4,505	5,192	5,822	6,495	6,270	6,697	6,186	5,342	4,963
Psychology	884	939	1,035	1,064	1,157	1,338	1,528	1,719	1,839	2,259	2,508	2,362	2,647	2,357	2,153	1,948
Social sciences	1,306	1,438	1,527	1,750	2,086	2,609	3,039	2,786	3,353	3,563	3,987	3,908	4,050	3,829	3,189	3,015
Anthropology	55	66	76	83	72	105	126	114	111	105	123	139	110	101	112	77
Area and ethnic studies	110	173	159	140	162	212	354	193	171	179	151	141	94	101	103	108
Economics	97	93	102	201	253	275	291	276	361	288	451	313	308	214	235	208
History of science	2	0	5	2	2	2	1	2	1	0	1	3	2	4	1	1
Linguistics	20	25	27	32	40	40	52	37	54	63	56	58	45	64	42	40
Political science and public administration	820	847	940	1,053	1,253	1,605	1,839	1,760	2,216	2,386	2,617	2,756	3,003	2,879	2,312	2,209
Sociology	41	58	55	64	67	90	95	126	132	129	120	128	114	73	63	65
Other social sciences	161	176	163	175	237	280	281	278	307	413	468	370	374	393	321	307
Non-S&E	21,503	25,871	30,674	36,175	44,980	41,402	45,524	50,609	55,207	58,867	64,121	61,657	59,258	50,129	46,841	45,042
Temporary visa holder																

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All fields	55,984	61,432	63,689	71,600	74,897	73,240	71,780	68,336	72,867	79,650	81,454	85,917	89,145	94,489	103,828	117,148
S&E	24,815	27,443	27,576	32,403	35,461	33,468	30,842	28,683	32,086	36,014	36,374	39,215	40,945	43,261	47,344	58,724
Engineering	9,824	11,002	10,800	13,347	15,640	14,865	13,291	11,660	13,428	15,570	15,929	17,387	17,583	17,919	19,891	24,460
Aerospace	221	251	287	285	291	290	253	181	238	236	265	332	329	287	320	335
Chemical	631	642	605	708	802	767	698	539	621	659	710	911	995	1,057	1,143	1,263
Civil	1,092	1,233	1,354	1,504	1,663	1,551	1,423	1,216	1,273	1,337	1,435	1,619	1,748	1,828	2,108	2,496
Electrical	4,109	4,672	4,242	5,676	6,917	6,399	5,486	5,025	6,021	7,153	7,016	7,390	7,553	7,536	8,274	11,107
Industrial	1,176	1,409	1,430	1,765	1,976	1,759	1,456	1,340	1,582	2,049	2,151	2,244	2,232	2,198	2,417	2,735
Materials	276	300	244	339	383	339	334	331	336	384	355	406	454	521	595	605
Mechanical	1,166	1,250	1,303	1,588	1,925	1,912	1,724	1,524	1,575	1,794	1,757	2,210	2,147	2,189	2,460	3,004
Other	1,153	1,245	1,335	1,482	1,683	1,848	1,917	1,504	1,782	1,958	2,240	2,275	2,125	2,303	2,574	2,915
Science	14,991	16,441	16,776	19,056	19,821	18,603	17,551	17,023	18,658	20,444	20,445	21,828	23,362	25,342	27,453	34,264
Natural sciences	10,336	11,746	11,678	13,578	14,067	12,700	11,980	11,545	12,947	14,415	14,438	15,405	16,751	18,011	19,771	26,552
Agricultural sciences	516	471	479	515	646	596	561	539	564	576	582	634	682	739	802	793
Biological sciences	750	873	805	1,001	1,114	1,210	1,288	1,326	1,465	1,710	1,790	1,901	2,048	2,045	2,145	2,327
Earth, atmospheric, and ocean sciences	195	172	199	206	258	247	253	216	204	234	241	226	316	317	343	348
Atmospheric sciences	38	24	28	39	44	46	45	35	26	22	43	21	39	32	44	49
Earth sciences	142	134	150	157	190	182	188	156	161	185	175	187	260	271	280	282
Oceanography	15	14	21	10	24	19	20	25	17	27	23	18	17	14	19	17

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mathematics and computer sciences	7,735	8,991	9,007	10,679	10,681	9,291	8,455	8,056	9,289	10,561	10,433	11,171	12,087	13,334	14,918	21,445
Computer sciences	6,624	7,761	7,713	9,167	8,896	7,514	6,649	6,287	7,405	8,347	7,955	8,733	9,365	10,108	11,226	17,353
Mathematics and statistics	1,111	1,230	1,294	1,512	1,785	1,777	1,806	1,769	1,884	2,214	2,478	2,438	2,722	3,226	3,692	4,092
Physical sciences	1,140	1,239	1,188	1,177	1,368	1,356	1,423	1,408	1,425	1,334	1,392	1,473	1,618	1,576	1,563	1,639
Astronomy	22	28	35	29	48	37	29	38	38	25	32	51	23	33	41	34
Chemistry	599	621	606	533	672	623	701	712	712	695	710	792	866	874	876	876
Physics	483	568	524	602	627	673	678	644	661	593	626	612	688	627	609	690
Other physical sciences	36	22	23	13	21	23	15	14	14	21	24	18	41	42	37	39
Social and behavioral sciences	4,655	4,695	5,098	5,478	5,754	5,903	5,571	5,478	5,711	6,029	6,007	6,423	6,611	7,331	7,682	7,712
Psychology	470	468	485	684	619	651	630	663	654	629	684	714	790	928	841	820
Social sciences	4,185	4,227	4,613	4,794	5,135	5,252	4,941	4,815	5,057	5,400	5,323	5,709	5,821	6,403	6,841	6,892
Anthropology	86	88	99	83	105	73	92	105	92	112	106	85	95	106	101	109
Area and ethnic studies	229	228	224	226	253	236	261	202	253	249	265	261	253	292	311	294
Economics	1,306	1,320	1,460	1,614	1,708	1,730	1,552	1,524	1,622	1,659	1,665	1,848	1,872	2,093	2,353	2,339
History of science	2	5	2	7	3	6	9	2	8	5	3	5	5	7	7	4
Linguistics	173	158	169	172	176	189	171	179	168	173	174	175	192	188	179	242
Political science and public administration	1,924	1,983	2,147	2,222	2,365	2,495	2,338	2,290	2,456	2,625	2,533	2,790	2,781	3,107	3,277	3,277
Sociology	191	157	191	185	199	169	168	164	139	161	153	164	172	171	169	163
Other social sciences	274	288	321	285	326	354	350	349	319	416	424	381	451	439	444	464

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Non-S&E	31,169	33,989	36,113	39,197	39,436	39,772	40,938	39,653	40,781	43,636	45,080	46,702	48,200	51,228	56,484	58,424

na = not applicable; data were not collected for this detail.

[a] Beginning in 2008, the category includes Hispanic or one or more races.

[b] Pacific Islander includes Native Hawaiian or Other Pacific Islander.

[c] In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race for the years after 2011 is likely to be an undercount.

Note(s)

Racial and ethnic breakouts include U.S. citizens and permanent residents only; temporary visa holder includes all racial and ethnic groups. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data from *Science and Engineering Indicators 2008* and earlier years that were based on accredited higher education institutions.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-29

Earned doctoral degrees, by citizenship, field, and sex: 2000–15

(Number)

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All citizenships																
Both sexes																
All fields	44,947	45,068	44,311	46,177	48,560	52,855	56,309	60,887	61,716	61,730	57,405	59,847	62,071	64,887	67,591	69,115
S&E	27,862	28,096	27,588	28,746	30,979	34,468	37,541	40,980	41,480	41,111	36,711	38,470	39,828	41,563	43,995	44,521
Engineering	5,384	5,561	5,196	5,282	5,931	6,548	7,402	8,066	8,110	7,915	7,812	8,478	8,873	9,489	10,135	10,406
Aerospace	203	202	193	178	190	205	209	234	232	257	228	237	275	310	336	310
Chemical	665	680	693	608	708	872	911	915	950	886	929	951	969	1,001	1,169	1,197
Civil	628	647	669	685	736	830	864	935	909	902	851	894	922	1,036	1,154	1,230
Electrical	1,515	1,527	1,361	1,402	1,634	1,782	2,124	2,380	2,279	2,090	2,169	2,352	2,475	2,469	2,642	2,651
Industrial	218	262	275	258	280	286	302	364	346	333	290	319	348	389	400	354
Materials	454	454	381	457	494	514	611	663	665	661	653	651	715	757	734	810
Mechanical	821	906	813	786	835	963	1,139	1,138	1,149	1,186	1,022	1,172	1,277	1,384	1,454	1,586
Other	880	883	811	908	1,054	1,096	1,242	1,437	1,580	1,600	1,670	1,902	1,892	2,143	2,246	2,268
Science	22,478	22,535	22,392	23,464	25,048	27,920	30,139	32,914	33,370	33,196	28,899	29,992	30,955	32,074	33,860	34,115
Natural sciences	14,296	14,084	14,385	15,340	16,773	19,329	21,563	24,052	24,466	24,649	20,809	21,313	22,115	22,808	24,098	24,165
Agricultural sciences	984	934	969	1,060	1,016	1,004	1,037	1,068	1,080	1,143	982	1,053	1,144	1,218	1,228	1,381

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Biological sciences	4,992	4,750	4,596	5,212	5,491	5,925	6,138	6,703	7,319	7,429	7,571	7,596	7,817	7,825	8,207	7,890
Earth, atmospheric, and ocean sciences	579	542	562	544	540	572	600	727	683	724	713	687	737	794	861	827
Atmospheric sciences	87	70	68	78	77	96	95	87	106	110	100	120	125	137	126	146
Earth sciences	393	380	404	368	369	379	430	513	469	503	496	467	497	530	606	575
Oceanography	99	92	90	98	94	97	75	127	108	111	117	100	115	127	129	106
Mathematics and computer sciences	1,858	1,769	1,677	1,825	1,975	2,301	2,713	2,953	3,058	3,110	3,155	3,152	3,360	3,633	3,799	3,753
Computer sciences	777	768	750	816	910	1,121	1,416	1,597	1,696	1,574	1,561	1,562	1,690	1,809	1,935	1,951
Mathematics and statistics	1,081	1,001	927	1,009	1,065	1,180	1,297	1,356	1,362	1,536	1,594	1,590	1,670	1,824	1,864	1,802
Medical and other health sciences	2,439	2,643	3,334	3,321	4,406	5,907	7,089	8,392	8,121	7,827	4,062	4,265	4,468	4,635	5,056	5,343
Medical sciences	893	864	882	850	1,010	1,144	1,252	1,293	1,320	1,254	1,506	1,497	1,688	1,867	2,148	2,433
Other health sciences	1,546	1,779	2,452	2,471	3,396	4,763	5,837	7,099	6,801	6,573	2,556	2,768	2,780	2,768	2,908	2,910
Physical sciences	3,444	3,446	3,247	3,378	3,345	3,620	3,986	4,209	4,205	4,416	4,326	4,560	4,589	4,703	4,947	4,971
Astronomy	101	103	70	101	101	115	114	128	163	143	160	166	170	174	179	153
Chemistry	2,090	2,134	2,037	2,158	2,105	2,226	2,502	2,606	2,495	2,652	2,564	2,685	2,630	2,730	2,921	2,906
Physics	1,208	1,169	1,096	1,089	1,119	1,254	1,341	1,442	1,507	1,580	1,570	1,670	1,752	1,740	1,768	1,840
Other physical sciences	45	40	44	30	20	25	29	33	40	41	32	39	37	59	79	72
Social and behavioral sciences	8,182	8,451	8,007	8,124	8,275	8,591	8,576	8,862	8,904	8,547	8,090	8,679	8,840	9,266	9,762	9,950
Psychology	4,200	4,538	4,185	4,258	4,389	4,681	4,484	4,696	4,600	4,046	3,606	3,952	3,868	4,280	4,574	4,533
Social sciences	3,982	3,913	3,822	3,866	3,886	3,910	4,092	4,166	4,304	4,501	4,484	4,727	4,972	4,986	5,188	5,417

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Anthropology	471	428	508	487	537	459	480	519	491	527	534	596	585	595	606	577
Area and ethnic studies	212	216	209	176	204	184	220	226	246	226	237	257	274	272	316	309
Economics	1,001	1,016	961	967	978	1,111	1,057	1,107	1,172	1,172	1,120	1,152	1,271	1,227	1,212	1,283
History of science	23	21	20	27	20	28	34	27	34	19	31	27	24	29	41	31
Linguistics	202	193	152	201	194	172	216	219	215	240	203	235	249	237	240	266
Political science and public administration	1,019	1,047	992	1,055	1,001	1,049	1,098	1,093	1,104	1,244	1,312	1,314	1,402	1,507	1,537	1,622
Sociology	602	550	547	598	564	534	574	573	594	635	612	671	635	626	692	733
Other social sciences	452	442	433	355	388	373	413	402	448	438	435	475	532	493	544	596
Non-S&E	17,085	16,972	16,723	17,431	17,581	18,387	18,768	19,907	20,236	20,619	20,694	21,377	22,243	23,324	23,596	24,594
Male																
All fields	25,064	24,781	23,760	24,398	25,359	27,039	28,702	30,336	30,601	30,505	29,008	30,334	31,304	32,739	33,760	34,455
S&E	17,024	16,873	16,164	16,569	17,532	18,970	20,254	21,653	21,995	21,743	20,361	21,377	22,101	23,021	24,072	24,371
Engineering	4,549	4,640	4,300	4,373	4,884	5,326	5,918	6,381	6,362	6,203	5,997	6,580	6,867	7,312	7,824	7,980
Aerospace	179	179	174	154	170	178	184	204	208	224	188	207	235	261	283	263
Chemical	529	518	527	459	530	667	667	682	701	649	660	671	676	703	841	836
Civil	513	520	541	549	576	630	667	685	677	688	605	655	681	738	840	859
Electrical	1,328	1,330	1,213	1,230	1,418	1,530	1,826	2,004	1,891	1,752	1,787	1,965	2,051	2,105	2,229	2,261
Industrial	175	209	200	188	228	221	220	260	249	247	218	219	244	276	278	233
Materials	371	363	307	359	403	392	456	494	509	489	487	495	543	555	537	593

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mechanical	732	816	715	698	736	847	988	991	989	1,026	897	1,010	1,083	1,172	1,237	1,363
Other	722	705	623	736	823	861	910	1,061	1,138	1,128	1,155	1,358	1,354	1,502	1,579	1,572
Science	12,475	12,233	11,864	12,196	12,648	13,644	14,336	15,272	15,633	15,540	14,364	14,797	15,234	15,709	16,248	16,391
Natural sciences	8,833	8,553	8,398	8,748	9,119	10,142	10,889	11,860	12,133	12,070	10,936	11,305	11,625	12,003	12,512	12,487
Agricultural sciences	663	601	637	672	640	642	612	630	635	637	527	562	604	648	635	716
Biological sciences	2,790	2,655	2,557	2,826	2,948	3,014	3,125	3,419	3,612	3,535	3,564	3,609	3,665	3,658	3,832	3,711
Earth, atmospheric, and ocean sciences	413	386	385	376	360	375	382	441	439	436	424	420	418	429	487	468
Atmospheric sciences	70	55	47	57	54	67	62	54	85	77	66	84	76	79	85	91
Earth sciences	273	270	284	264	245	256	282	318	295	308	292	281	282	298	345	326
Oceanography	70	61	54	55	61	52	38	69	59	51	66	55	60	52	57	51
Mathematics and computer sciences	1,453	1,351	1,238	1,382	1,473	1,749	2,022	2,219	2,262	2,283	2,343	2,387	2,528	2,751	2,857	2,811
Computer sciences	646	632	579	648	709	907	1,109	1,269	1,323	1,223	1,225	1,251	1,329	1,458	1,532	1,512
Mathematics and statistics	807	719	659	734	764	842	913	950	939	1,060	1,118	1,136	1,199	1,293	1,325	1,299
Medical and other health sciences	930	1,027	1,223	1,046	1,266	1,734	1,931	2,224	2,214	2,148	1,123	1,185	1,265	1,330	1,328	1,457
Medical sciences	419	393	431	393	419	466	500	510	531	479	534	547	603	646	681	699
Other health sciences	511	634	792	653	847	1,268	1,431	1,714	1,683	1,669	589	638	662	684	647	758
Physical sciences	2,584	2,533	2,358	2,446	2,432	2,628	2,817	2,927	2,971	3,031	2,955	3,142	3,145	3,187	3,373	3,324
Astronomy	76	83	56	73	69	77	74	85	124	89	99	109	113	111	117	101
Chemistry	1,426	1,415	1,346	1,451	1,411	1,456	1,609	1,642	1,594	1,628	1,570	1,638	1,602	1,628	1,771	1,700

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Physics	1,050	1,002	926	899	940	1,072	1,107	1,177	1,227	1,287	1,265	1,368	1,402	1,405	1,437	1,473
Other physical sciences	32	33	30	23	12	23	27	23	26	27	21	27	28	43	48	50
Social and behavioral sciences	3,642	3,680	3,466	3,448	3,529	3,502	3,447	3,412	3,500	3,470	3,428	3,492	3,609	3,706	3,736	3,904
Psychology	1,370	1,440	1,348	1,327	1,356	1,348	1,236	1,282	1,289	1,134	1,069	1,089	1,059	1,162	1,213	1,190
Social sciences	2,272	2,240	2,118	2,121	2,173	2,154	2,211	2,130	2,211	2,336	2,359	2,403	2,550	2,544	2,523	2,714
Anthropology	205	181	209	190	244	198	208	199	190	212	220	238	211	206	228	224
Area and ethnic studies	106	86	107	67	97	81	98	95	103	88	106	116	113	130	129	125
Economics	733	724	690	687	689	772	733	749	764	753	740	746	850	791	797	817
History of science	16	18	16	13	11	17	17	13	17	12	17	19	17	11	23	15
Linguistics	86	84	63	79	78	60	85	89	95	88	88	93	116	97	94	117
Political science and public administration	636	683	573	646	620	609	642	577	584	698	724	716	750	808	757	856
Sociology	248	229	215	245	226	205	206	211	234	255	234	252	233	259	257	292
Other social sciences	242	235	245	194	208	212	222	197	224	230	230	223	260	242	238	268
Non-S&E	8,040	7,908	7,596	7,829	7,827	8,069	8,448	8,683	8,606	8,762	8,647	8,957	9,203	9,718	9,688	10,084
Female																
All fields	19,883	20,287	20,551	21,779	23,201	25,816	27,607	30,551	31,115	31,225	28,397	29,513	30,767	32,148	33,831	34,660
S&E	10,838	11,223	11,424	12,177	13,447	15,498	17,287	19,327	19,485	19,368	16,350	17,093	17,727	18,542	19,923	20,150
Engineering	835	921	896	909	1,047	1,222	1,484	1,685	1,748	1,712	1,815	1,898	2,006	2,177	2,311	2,426
Aerospace	24	23	19	24	20	27	25	30	24	33	40	30	40	49	53	47

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Chemical	136	162	166	149	178	205	244	233	249	237	269	280	293	298	328	361
Civil	115	127	128	136	160	200	197	250	232	214	246	239	241	298	314	371
Electrical	187	197	148	172	216	252	298	376	388	338	382	387	424	364	413	390
Industrial	43	53	75	70	52	65	82	104	97	86	72	100	104	113	122	121
Materials	83	91	74	98	91	122	155	169	156	172	166	156	172	202	197	217
Mechanical	89	90	98	88	99	116	151	147	160	160	125	162	194	212	217	223
Other	158	178	188	172	231	235	332	376	442	472	515	544	538	641	667	696
Science	10,003	10,302	10,528	11,268	12,400	14,276	15,803	17,642	17,737	17,656	14,535	15,195	15,721	16,365	17,612	17,724
Natural sciences	5,463	5,531	5,987	6,592	7,654	9,187	10,674	12,192	12,333	12,579	9,873	10,008	10,490	10,805	11,586	11,678
Agricultural sciences	321	333	332	388	376	362	425	438	445	506	455	491	540	570	593	665
Biological sciences	2,202	2,095	2,039	2,386	2,543	2,911	3,013	3,284	3,707	3,894	4,007	3,987	4,152	4,167	4,375	4,179
Earth, atmospheric, and ocean sciences	166	156	177	168	180	197	218	286	244	288	289	267	319	365	374	359
Atmospheric sciences	17	15	21	21	23	29	33	33	21	33	34	36	49	58	41	55
Earth sciences	120	110	120	104	124	123	148	195	174	195	204	186	215	232	261	249
Oceanography	29	31	36	43	33	45	37	58	49	60	51	45	55	75	72	55
Mathematics and computer sciences	405	418	439	443	502	552	691	734	796	827	812	765	832	882	942	942
Computer sciences	131	136	171	168	201	214	307	328	373	351	336	311	361	351	403	439
Mathematics and statistics	274	282	268	275	301	338	384	406	423	476	476	454	471	531	539	503
Medical and other health sciences	1,509	1,616	2,111	2,275	3,140	4,173	5,158	6,168	5,907	5,679	2,939	3,080	3,203	3,305	3,728	3,886

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Medical sciences	474	471	451	457	591	678	752	783	789	775	972	950	1,085	1,221	1,467	1,734
Other health sciences	1,035	1,145	1,660	1,818	2,549	3,495	4,406	5,385	5,118	4,904	1,967	2,130	2,118	2,084	2,261	2,152
Physical sciences	860	913	889	932	913	992	1,169	1,282	1,234	1,385	1,371	1,418	1,444	1,516	1,574	1,647
Astronomy	25	20	14	28	32	38	40	43	39	54	61	57	57	63	62	52
Chemistry	664	719	691	707	694	770	893	964	901	1,024	994	1,047	1,028	1,102	1,150	1,206
Physics	158	167	170	190	179	182	234	265	280	293	305	302	350	335	331	367
Other physical sciences	13	7	14	7	8	2	2	10	14	14	11	12	9	16	31	22
Social and behavioral sciences	4,540	4,771	4,541	4,676	4,746	5,089	5,129	5,450	5,404	5,077	4,662	5,187	5,231	5,560	6,026	6,046
Psychology	2,830	3,098	2,837	2,931	3,033	3,333	3,248	3,414	3,311	2,912	2,537	2,863	2,809	3,118	3,361	3,343
Social sciences	1,710	1,673	1,704	1,745	1,713	1,756	1,881	2,036	2,093	2,165	2,125	2,324	2,422	2,442	2,665	2,703
Anthropology	266	247	299	297	293	261	272	320	301	315	314	358	374	389	378	353
Area and ethnic studies	106	130	102	109	107	103	122	131	143	138	131	141	161	142	187	184
Economics	268	292	271	280	289	339	324	358	408	419	380	406	421	436	415	466
History of science	7	3	4	14	9	11	17	14	17	7	14	8	7	18	18	16
Linguistics	116	109	89	122	116	112	131	130	120	152	115	142	133	140	146	149
Political science and public administration	383	364	419	409	381	440	456	516	520	546	588	598	652	699	780	766
Sociology	354	321	332	353	338	329	368	362	360	380	378	419	402	367	435	441
Other social sciences	210	207	188	161	180	161	191	205	224	208	205	252	272	251	306	328
Non-S&E	9,045	9,064	9,127	9,602	9,754	10,318	10,320	11,224	11,630	11,857	12,047	12,420	13,040	13,606	13,908	14,510

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
U.S. citizen or permanent resident																
Both sexes																
All fields	34,113	34,105	33,382	34,551	35,807	38,512	40,334	43,888	44,509	45,019	41,759	43,514	45,203	47,233	49,267	50,859
S&E	19,401	19,382	19,110	19,731	21,136	23,113	24,816	27,283	27,594	27,753	24,106	25,296	26,057	27,209	28,785	29,338
Engineering	2,656	2,562	2,261	2,237	2,347	2,452	2,714	2,994	3,180	3,374	3,507	3,713	3,926	4,123	4,451	4,620
Aerospace	125	101	77	72	73	91	80	108	103	137	122	130	163	169	208	194
Chemical	364	357	354	295	340	360	423	373	417	437	469	440	442	428	520	564
Civil	319	300	273	283	257	296	296	359	330	348	347	353	366	410	465	535
Electrical	641	587	506	478	531	567	560	645	704	711	757	815	847	813	822	855
Industrial	104	109	115	93	119	107	117	129	125	112	116	124	124	133	136	111
Materials	240	217	172	198	205	191	242	286	284	281	316	283	363	348	348	374
Mechanical	384	414	335	336	307	338	388	376	406	472	425	505	556	614	643	683
Other	479	477	429	482	515	502	608	718	811	876	955	1,063	1,065	1,208	1,309	1,304
Science	16,745	16,820	16,849	17,494	18,789	20,661	22,102	24,289	24,414	24,379	20,599	21,583	22,131	23,086	24,334	24,718
Natural sciences	9,779	9,682	10,048	10,765	11,872	13,661	15,139	17,116	17,248	17,699	14,237	14,614	15,075	15,546	16,333	16,579
Agricultural sciences	553	544	549	626	601	611	640	643	668	715	639	660	694	770	755	888
Biological sciences	3,724	3,579	3,443	3,901	4,118	4,330	4,377	4,713	5,091	5,310	5,447	5,513	5,705	5,710	5,957	5,720
Earth, atmospheric, and ocean sciences	409	362	368	376	356	360	389	481	436	477	481	472	498	540	583	566
Atmospheric sciences	57	40	43	46	45	54	45	48	58	68	50	83	75	91	85	99

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth sciences	280	258	266	259	245	244	296	347	302	333	350	312	339	363	395	391
Oceanography	72	64	59	71	66	62	48	86	76	76	81	77	84	86	103	76
Mathematics and computer sciences	990	920	848	926	963	1,040	1,134	1,325	1,338	1,518	1,645	1,621	1,671	1,761	1,823	1,764
Computer sciences	402	395	410	413	455	500	551	680	667	730	782	772	819	849	875	864
Mathematics and statistics	588	525	438	513	508	540	583	645	671	788	863	849	852	912	948	900
Medical and other health sciences	1,955	2,121	2,796	2,876	3,865	5,284	6,416	7,688	7,408	7,193	3,536	3,696	3,798	3,991	4,392	4,667
Medical sciences	615	582	568	577	655	735	816	862	910	848	1,142	1,108	1,220	1,393	1,656	1,945
Other health sciences	1,340	1,539	2,228	2,299	3,210	4,549	5,600	6,826	6,498	6,345	2,394	2,588	2,578	2,598	2,736	2,722
Physical sciences	2,148	2,156	2,044	2,060	1,969	2,036	2,183	2,266	2,307	2,486	2,489	2,652	2,709	2,774	2,823	2,974
Astronomy	76	78	53	79	75	73	73	89	117	98	119	108	124	120	131	118
Chemistry	1,336	1,383	1,355	1,374	1,321	1,366	1,461	1,464	1,414	1,586	1,542	1,592	1,584	1,653	1,703	1,787
Physics	708	677	604	591	562	585	635	696	754	781	808	928	985	970	951	1,028
Other physical sciences	28	18	32	16	11	12	14	17	22	21	20	24	16	31	38	41
Social and behavioral sciences	6,966	7,138	6,801	6,729	6,917	7,000	6,963	7,173	7,166	6,680	6,362	6,969	7,056	7,540	8,001	8,139
Psychology	4,042	4,381	4,042	4,059	4,191	4,452	4,230	4,450	4,359	3,770	3,334	3,694	3,617	4,017	4,320	4,261
Social sciences	2,924	2,757	2,759	2,670	2,726	2,548	2,733	2,723	2,807	2,910	3,028	3,275	3,439	3,523	3,681	3,878
Anthropology	409	356	430	420	466	392	425	433	416	431	444	505	490	508	507	489
Area and ethnic studies	180	180	180	149	168	154	187	202	190	178	191	214	220	240	265	263
Economics	474	422	419	377	396	368	371	369	438	408	459	456	538	535	500	566

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
History of science	18	20	16	24	14	21	28	16	29	12	25	24	17	24	29	19
Linguistics	105	100	84	102	105	95	114	123	114	145	118	146	139	131	139	155
Political science and public administration	856	859	821	827	809	806	827	811	822	919	967	1,013	1,086	1,181	1,234	1,284
Sociology	510	473	474	492	460	436	466	459	477	499	504	555	536	517	580	623
Other social sciences	372	347	335	279	308	276	315	310	321	318	320	362	413	387	427	479
Non-S&E	14,712	14,723	14,272	14,820	14,671	15,399	15,518	16,605	16,915	17,266	17,653	18,218	19,146	20,024	20,482	21,521
Male																
All fields	17,408	17,061	16,263	16,501	16,767	17,391	18,294	19,321	19,603	19,881	19,176	20,016	20,622	21,586	22,143	22,954
S&E	10,712	10,457	10,024	10,097	10,487	10,925	11,496	12,285	12,595	12,787	11,980	12,545	12,919	13,460	13,972	14,320
Engineering	2,160	2,079	1,810	1,807	1,854	1,941	2,108	2,317	2,376	2,518	2,601	2,793	2,925	3,104	3,349	3,456
Aerospace	108	85	67	63	64	81	69	92	90	119	102	115	139	142	172	164
Chemical	275	271	267	225	245	277	306	279	287	311	329	299	307	302	380	402
Civil	248	224	206	204	178	200	211	268	219	240	234	238	244	271	300	353
Electrical	557	524	449	418	457	477	497	555	595	597	638	685	689	708	704	743
Industrial	81	77	76	66	90	79	73	88	79	74	81	87	75	90	93	77
Materials	186	170	128	155	169	141	176	212	217	194	224	217	275	247	256	276
Mechanical	330	372	298	297	258	296	329	319	339	391	363	421	463	505	548	562
Other	375	356	319	379	393	390	447	504	550	592	630	731	733	839	896	879
Science	8,552	8,378	8,214	8,290	8,633	8,984	9,388	9,968	10,219	10,269	9,379	9,752	9,994	10,356	10,623	10,864

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Natural sciences	5,693	5,554	5,508	5,683	5,912	6,466	6,879	7,485	7,661	7,813	6,895	7,184	7,358	7,557	7,803	7,946
Agricultural sciences	359	334	344	388	367	376	381	365	394	365	318	343	364	400	390	449
Biological sciences	2,021	1,963	1,893	2,068	2,189	2,185	2,237	2,386	2,531	2,485	2,517	2,597	2,609	2,641	2,767	2,687
Earth, atmospheric, and ocean sciences	289	243	233	249	226	234	241	276	268	286	282	282	274	284	306	314
Atmospheric sciences	46	34	32	32	32	42	32	30	50	52	32	61	52	55	58	70
Earth sciences	195	171	168	181	152	161	185	204	180	201	207	181	180	195	203	209
Oceanography	48	38	33	36	42	31	24	42	38	33	43	40	42	34	45	35
Mathematics and computer sciences	752	691	617	687	700	785	853	987	967	1,122	1,223	1,243	1,283	1,338	1,382	1,348
Computer sciences	329	311	308	323	345	397	421	535	514	569	605	624	655	668	688	675
Mathematics and statistics	423	380	309	364	355	388	432	452	453	553	618	619	628	670	694	673
Medical and other health sciences	687	766	955	830	1,016	1,460	1,639	1,918	1,886	1,878	878	927	976	1,036	1,041	1,143
Medical sciences	261	239	245	241	235	269	286	281	292	280	351	344	373	424	453	457
Other health sciences	426	527	710	589	781	1,191	1,353	1,637	1,594	1,598	527	583	603	612	588	686
Physical sciences	1,585	1,557	1,466	1,461	1,414	1,426	1,528	1,553	1,615	1,677	1,677	1,792	1,852	1,858	1,917	2,005
Astronomy	56	62	43	58	50	45	47	58	87	57	69	68	82	75	86	76
Chemistry	885	905	892	911	889	871	943	912	898	966	932	941	953	973	1,023	1,065
Physics	626	576	510	480	469	499	526	573	615	637	662	765	805	788	786	837
Other physical sciences	18	14	21	12	6	11	12	10	15	17	14	18	12	22	22	27
Social and behavioral sciences	2,859	2,824	2,706	2,607	2,721	2,518	2,509	2,483	2,558	2,456	2,484	2,568	2,636	2,799	2,820	2,918

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Psychology	1,296	1,369	1,293	1,255	1,293	1,274	1,147	1,215	1,217	1,040	980	1,016	994	1,078	1,129	1,106
Social sciences	1,563	1,455	1,413	1,352	1,428	1,244	1,362	1,268	1,341	1,416	1,504	1,552	1,642	1,721	1,691	1,812
Anthropology	167	144	175	160	218	157	180	166	157	164	177	196	160	177	175	181
Area and ethnic studies	81	69	92	56	80	65	81	88	81	67	87	93	90	112	109	101
Economics	336	275	288	260	274	231	251	251	283	274	302	300	360	367	343	369
History of science	13	17	13	11	8	11	14	6	13	9	14	16	13	11	14	9
Linguistics	46	41	31	43	38	33	45	49	52	51	50	61	62	52	58	72
Political science and public administration	523	543	456	488	481	446	472	409	418	487	520	537	567	610	605	641
Sociology	206	186	185	190	165	153	162	164	177	201	186	194	196	215	209	235
Other social sciences	191	180	173	144	164	148	157	135	160	163	168	155	194	177	178	204
Non-S&E	6,696	6,604	6,239	6,404	6,280	6,466	6,798	7,036	7,008	7,094	7,196	7,471	7,703	8,126	8,171	8,634
Female																
All fields	16,705	17,044	17,119	18,050	19,040	21,121	22,040	24,567	24,906	25,138	22,583	23,498	24,581	25,647	27,124	27,905
S&E	8,689	8,925	9,086	9,634	10,649	12,188	13,320	14,998	14,999	14,966	12,126	12,751	13,138	13,749	14,813	15,018
Engineering	496	483	451	430	493	511	606	677	804	856	906	920	1,001	1,019	1,102	1,164
Aerospace	17	16	10	9	9	10	11	16	13	18	20	15	24	27	36	30
Chemical	89	86	87	70	95	83	117	94	130	126	140	141	135	126	140	162
Civil	71	76	67	79	79	96	85	91	111	108	113	115	122	139	165	182
Electrical	84	63	57	60	74	90	63	90	109	114	119	130	158	105	118	112

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Industrial	23	32	39	27	29	28	44	41	46	38	35	37	49	43	43	34
Materials	54	47	44	43	36	50	66	74	67	87	92	66	88	101	92	98
Mechanical	54	42	37	39	49	42	59	57	67	81	62	84	93	109	95	121
Other	104	121	110	103	122	112	161	214	261	284	325	332	332	369	413	425
Science	8,193	8,442	8,635	9,204	10,156	11,677	12,714	14,321	14,195	14,110	11,220	11,831	12,137	12,730	13,711	13,854
Natural sciences	4,086	4,128	4,540	5,082	5,960	7,195	8,260	9,631	9,587	9,886	7,342	7,430	7,717	7,989	8,530	8,633
Agricultural sciences	194	210	205	238	234	235	259	278	274	350	321	317	330	370	365	439
Biological sciences	1,703	1,616	1,550	1,833	1,929	2,145	2,140	2,327	2,560	2,825	2,930	2,916	3,096	3,069	3,190	3,033
Earth, atmospheric, and ocean sciences	120	119	135	127	130	126	148	205	168	191	199	190	224	256	277	252
Atmospheric sciences	11	6	11	14	13	12	13	18	8	16	18	22	23	36	27	29
Earth sciences	85	87	98	78	93	83	111	143	122	132	143	131	159	168	192	182
Oceanography	24	26	26	35	24	31	24	44	38	43	38	37	42	52	58	41
Mathematics and computer sciences	238	229	231	239	263	255	281	338	371	396	422	378	388	423	441	416
Computer sciences	73	84	102	90	110	103	130	145	153	161	177	148	164	181	187	189
Mathematics and statistics	165	145	129	149	153	152	151	193	218	235	245	230	224	242	254	227
Medical and other health sciences	1,268	1,355	1,841	2,046	2,849	3,824	4,777	5,770	5,522	5,315	2,658	2,769	2,822	2,955	3,351	3,524
Medical sciences	354	343	323	336	420	466	530	581	618	568	791	764	847	969	1,203	1,488
Other health sciences	914	1,012	1,518	1,710	2,429	3,358	4,247	5,189	4,904	4,747	1,867	2,005	1,975	1,986	2,148	2,036
Physical sciences	563	599	578	599	555	610	655	713	692	809	812	860	857	916	906	969

Citizenship, field, and sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Astronomy	20	16	10	21	25	28	26	31	30	41	50	40	42	45	45	42
Chemistry	451	478	463	463	432	495	518	552	516	620	610	651	631	680	680	722
Physics	82	101	94	111	93	86	109	123	139	144	146	163	180	182	165	191
Other physical sciences	10	4	11	4	5	1	2	7	7	4	6	6	4	9	16	14
Social and behavioral sciences	4,107	4,314	4,095	4,122	4,196	4,482	4,454	4,690	4,608	4,224	3,878	4,401	4,420	4,741	5,181	5,221
Psychology	2,746	3,012	2,749	2,804	2,898	3,178	3,083	3,235	3,142	2,730	2,354	2,678	2,623	2,939	3,191	3,155
Social sciences	1,361	1,302	1,346	1,318	1,298	1,304	1,371	1,455	1,466	1,494	1,524	1,723	1,797	1,802	1,990	2,066
Anthropology	242	212	255	260	248	235	245	267	259	267	267	309	330	331	332	308
Area and ethnic studies	99	111	88	93	88	89	106	114	109	111	104	121	130	128	156	162
Economics	138	147	131	117	122	137	120	118	155	134	157	156	178	168	157	197
History of science	5	3	3	13	6	10	14	10	16	3	11	8	4	13	15	10
Linguistics	59	59	53	59	67	62	69	74	62	94	68	85	77	79	81	83
Political science and public administration	333	316	365	339	328	360	355	402	404	432	447	476	519	571	629	643
Sociology	304	287	289	302	295	283	304	295	300	298	318	361	340	302	371	388
Other social sciences	181	167	162	135	144	128	158	175	161	155	152	207	219	210	249	275
Non-S&E	8,016	8,119	8,033	8,416	8,391	8,933	8,720	9,569	9,907	10,172	10,457	10,747	11,443	11,898	12,311	12,887

Note(s)

Data in this table differ from doctoral degree data in other tables and figures in this report that are based on the National Science Foundation (NSF) Survey of Earned Doctorates and that refer to research doctorates only. The greatest differences are in psychology, education, and medical and other life sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories (doctor's and first-professional). Data in this table for those years include only the doctor's category. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories (doctor's — research/ scholarship, doctor's — professional practice, and doctor's — other) in addition to the doctor's category. For those 2 years, data in this table include only doctorates reported in the doctor's category plus those reported in doctor's — research/ scholarship. In 2010, NCES required institutions to use only the three new doctoral degree categories, and data in this table for 2010 and later include only doctorates reported in the category doctor's — research/scholarship. This change primarily affects data for other health sciences.

Source(s)

NCES, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; NSF, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-30

Median number of years from S&E doctorate recipients' entry to graduate school to receipt of doctorate, by field: 1985–2015

(Median number of years)

Year	All S&E	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Engineering	Mathematics	Medical and other health sciences	Physical sciences	Psychology	Social sciences
1985	7.2	7.2	6.7	7.4	7.4	6.7	6.7	9.7	6.0	7.9	9.1
1986	7.2	7.7	6.7	7.6	7.7	6.7	6.6	10.0	6.0	8.2	9.2
1987	7.2	7.5	6.9	7.7	7.9	6.7	6.9	9.9	5.9	8.2	9.3
1988	7.2	7.7	6.9	7.7	8.2	6.7	6.9	10.7	6.0	8.3	9.4
1989	7.2	8.0	6.9	7.7	7.7	6.7	6.7	10.7	6.1	8.2	9.1
1990	7.6	8.1	7.2	7.2	7.7	6.7	6.9	11.2	6.2	8.5	9.3
1991	7.5	8.3	6.9	7.7	8.0	6.9	6.9	11.2	6.2	8.2	9.4
1992	7.7	8.3	7.2	7.7	8.2	7.2	7.4	11.7	6.4	8.4	9.2
1993	7.7	8.2	7.2	7.9	8.7	7.2	7.2	11.7	6.7	8.2	9.4
1994	7.7	8.2	7.2	8.1	8.9	7.2	7.2	11.7	6.7	7.9	9.3
1995	7.7	8.5	7.2	8.1	8.9	7.3	7.2	11.2	6.7	7.9	9.3
1996	7.7	8.7	7.2	8.2	9.2	7.2	7.1	11.7	6.7	7.7	8.9
1997	7.7	8.7	7.0	8.3	8.7	7.2	7.2	11.7	6.3	7.7	8.9
1998	7.3	8.7	6.7	8.2	8.4	7.2	6.7	11.7	6.2	7.3	8.7
1999	7.2	8.2	6.7	8.2	8.2	7.2	6.7	10.7	6.2	7.2	8.7
2000	7.5	8.7	6.9	8.2	8.3	7.2	6.9	11.2	6.2	7.2	8.7

Year	All S&E	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Engineering	Mathematics	Medical and other health sciences	Physical sciences	Psychology	Social sciences
2001	7.2	8.7	6.7	7.9	8.2	7.1	6.8	10.7	6.2	7.2	8.9
2002	7.5	8.7	6.7	8.1	8.2	7.2	6.7	11.1	6.2	7.7	8.9
2003	7.6	8.2	6.7	8.2	8.0	7.3	6.9	10.3	6.2	7.2	9.2
2004	7.2	7.9	6.7	7.8	7.7	7.2	6.7	9.5	6.3	7.1	8.7
2005	7.3	7.9	6.7	7.7	7.8	7.3	6.8	9.7	6.3	7.3	9.0
2006	7.2	8.0	6.7	7.8	7.7	7.0	6.7	9.7	6.3	7.0	8.7
2007	7.0	7.7	6.7	7.4	7.4	6.7	6.7	9.6	6.3	7.0	8.7
2008	7.0	7.9	6.5	7.3	7.3	6.7	6.7	9.3	6.3	6.9	8.7
2009	7.0	8.0	6.7	7.6	7.3	6.9	6.7	9.7	6.2	6.9	8.5
2010	7.0	7.8	6.6	7.6	7.3	6.9	6.3	9.0	6.3	6.9	8.7
2011	7.0	8.0	6.7	7.7	7.7	6.8	6.2	9.3	6.3	6.9	8.7
2012	7.0	7.9	6.7	7.4	7.3	6.7	6.3	8.9	6.3	6.9	8.7
2013	6.9	7.7	6.7	7.6	7.0	6.7	6.3	9.0	6.2	6.9	8.7
2014	6.9	7.6	6.4	7.4	7.3	6.5	6.3	9.0	6.1	7.0	8.7
2015	6.8	7.3	6.3	7.6	6.9	6.7	6.0	9.0	6.0	7.0	8.3

Note(s)

Includes only doctorate recipients who reported year of entry to first graduate school or program.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Earned Doctorates (SED).

Science and Engineering Indicators 2018

APPENDIX TABLE 2-31

Median number of years from S&E doctorate recipients' entry to graduate school to receipt of doctorate, by sex, citizenship, ethnicity, race, and broad field of study: 2015

(Median number of years and number of recipients)

Field	Total[a]	Sex		Temporary visa holder	U.S. citizens and permanent residents								Unknown citizenship
					Total	Hispanic or Latino	Not Hispanic or Latino					Ethnicity not reported	
		Male	Female				American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
All fields (median years)	7.3	7.2	7.7	7.3	7.4	7.7	9.7	7.3	9.7	7.3	7.2	7.8	7.0	7.0
S&E	6.8	6.7	6.9	7.1	6.7	6.9	8.3	6.9	8.3	6.7	6.7	7.0	6.3	6.6
Agricultural sciences	7.3	7.3	7.3	7.7	7.3	8.7	s	7.3	8.5	7.0	8.3	s	8.5	9.6
Biological sciences	6.3	6.7	6.3	7.0	6.3	6.3	6.7	6.7	6.7	6.2	6.3	5.8	6.0	5.7
Computer sciences	7.6	7.4	8.0	7.3	7.9	9.4	0.0	8.8	10.0	7.7	8.2	7.7	8.0	6.2
Earth, atmospheric, and ocean sciences	6.9	7.0	6.9	7.3	6.7	6.8	s	7.7	7.0	6.7	6.7	s	9.1	10.9
Engineering	6.7	6.7	6.3	6.9	6.2	6.2	7.3	6.7	7.0	6.0	6.0	5.6	5.3	6.6
Mathematics	6.0	6.1	6.0	6.3	6.0	6.5	0.0	7.0	7.7	5.9	5.5	8.0	6.0	5.7
Medical and other health sciences	9.0	7.7	9.7	7.3	9.7	10.9	s	7.9	11.0	9.7	8.2	s	9.7	7.9
Physical sciences	6.0	6.0	5.9	6.7	5.7	6.0	5.7	6.0	6.3	5.7	5.9	4.7	5.0	5.9
Psychology	7.0	7.0	7.0	7.9	7.0	7.0	7.2	6.7	8.3	6.8	7.0	6.9	7.3	7.7
Social sciences	8.3	8.2	8.7	8.3	8.5	9.0	11.4	9.0	10.0	8.2	7.7	10.3	10.0	8.0

Field	Total[a]	Sex		Temporary visa holder	U.S. citizens and permanent residents								Unknown citizenship
					Total	Hispanic or Latino	Not Hispanic or Latino					Ethnicity not reported	
		Male	Female				American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Non-S&E	10.0	9.7	10.1	9.0	10.2	10.2	12.4	10.6	12.0	10.0	9.7	10.0	11.0	8.0
All fields (number)	49,402	26,690	22,712	15,394	33,737	2,329	120	3,014	2,182	24,768	900	220	204	271
S&E	37,495	21,675	15,820	13,452	23,844	1,604	68	2,449	1,290	17,455	669	161	148	199
Agricultural sciences	1,219	635	584	492	721	49	s	44	26	570	18	s	6	6
Biological sciences	7,838	3,690	4,148	2,137	5,670	442	11	691	194	4,093	181	32	26	31
Computer sciences	1,791	1,428	363	1,041	735	34	0	106	27	533	18	7	10	15
Earth, atmospheric, and ocean sciences	892	521	371	275	612	34	s	22	11	519	16	s	6	5
Engineering	8,974	6,903	2,071	4,878	4,048	282	7	645	159	2,797	108	30	20	48
Mathematics	1,651	1,184	467	788	854	38	0	92	25	657	17	10	15	9
Medical and other health sciences	2,401	761	1,640	490	1,898	122	s	169	219	1,312	41	s	14	13
Physical sciences	4,412	3,023	1,389	1,705	2,685	131	7	245	86	2,117	72	13	14	22
Psychology	3,128	904	2,224	244	2,865	218	10	179	227	2,129	80	10	12	19
Social sciences	5,189	2,626	2,563	1,402	3,756	254	22	256	316	2,728	118	37	25	31
Non-S&E	11,907	5,015	6,892	1,942	9,893	725	52	565	892	7,313	231	59	56	72

s = suppressed for reasons of confidentiality and/or reliability.

[a] Total includes doctorate recipients for whom sex was not reported.

Note(s)

Includes only doctorate recipients who reported year of entry to first graduate school or program. Reporting categories for ethnicity and race were expanded in 2013; comparisons with data before 2013 should be made with caution. Percentages may not add to total because of rounding.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016), 2015 Survey of Earned Doctorates (SED).

Science and Engineering Indicators 2018

APPENDIX TABLE 2-32

Earned doctoral degrees, by citizenship, field, race, and ethnicity: 2000–15

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All citizenships, races, and ethnicities																
All fields	44,947	45,068	44,311	46,177	48,560	52,855	56,309	60,887	61,716	61,730	57,405	59,847	62,071	64,887	67,591	69,115
S&E	27,862	28,096	27,588	28,746	30,979	34,468	37,541	40,980	41,480	41,111	36,711	38,470	39,828	41,563	43,995	44,521
Engineering	5,384	5,561	5,196	5,282	5,931	6,548	7,402	8,066	8,110	7,915	7,812	8,478	8,873	9,489	10,135	10,406
Aerospace	203	202	193	178	190	205	209	234	232	257	228	237	275	310	336	310
Chemical	665	680	693	608	708	872	911	915	950	886	929	951	969	1,001	1,169	1,197
Civil	628	647	669	685	736	830	864	935	909	902	851	894	922	1,036	1,154	1,230
Electrical	1,515	1,527	1,361	1,402	1,634	1,782	2,124	2,380	2,279	2,090	2,169	2,352	2,475	2,469	2,642	2,651
Industrial	218	262	275	258	280	286	302	364	346	333	290	319	348	389	400	354
Materials	454	454	381	457	494	514	611	663	665	661	653	651	715	757	734	810
Mechanical	821	906	813	786	835	963	1,139	1,138	1,149	1,186	1,022	1,172	1,277	1,384	1,454	1,586
Other	880	883	811	908	1,054	1,096	1,242	1,437	1,580	1,600	1,670	1,902	1,892	2,143	2,246	2,268
Science	22,478	22,535	22,392	23,464	25,048	27,920	30,139	32,914	33,370	33,196	28,899	29,992	30,955	32,074	33,860	34,115
Natural sciences	14,296	14,084	14,385	15,340	16,773	19,329	21,563	24,052	24,466	24,649	20,809	21,313	22,115	22,808	24,098	24,165
Agricultural sciences	984	934	969	1,060	1,016	1,004	1,037	1,068	1,080	1,143	982	1,053	1,144	1,218	1,228	1,381
Biological sciences	4,992	4,750	4,596	5,212	5,491	5,925	6,138	6,703	7,319	7,429	7,571	7,596	7,817	7,825	8,207	7,890

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth, atmospheric, and ocean sciences	579	542	562	544	540	572	600	727	683	724	713	687	737	794	861	827
Atmospheric sciences	87	70	68	78	77	96	95	87	106	110	100	120	125	137	126	146
Earth sciences	393	380	404	368	369	379	430	513	469	503	496	467	497	530	606	575
Oceanography	99	92	90	98	94	97	75	127	108	111	117	100	115	127	129	106
Mathematics and computer sciences	1,858	1,769	1,677	1,825	1,975	2,301	2,713	2,953	3,058	3,110	3,155	3,152	3,360	3,633	3,799	3,753
Computer sciences	777	768	750	816	910	1,121	1,416	1,597	1,696	1,574	1,561	1,562	1,690	1,809	1,935	1,951
Mathematics and statistics	1,081	1,001	927	1,009	1,065	1,180	1,297	1,356	1,362	1,536	1,594	1,590	1,670	1,824	1,864	1,802
Medical and other health sciences	2,439	2,643	3,334	3,321	4,406	5,907	7,089	8,392	8,121	7,827	4,062	4,265	4,468	4,635	5,056	5,343
Medical sciences	893	864	882	850	1,010	1,144	1,252	1,293	1,320	1,254	1,506	1,497	1,688	1,867	2,148	2,433
Other health sciences	1,546	1,779	2,452	2,471	3,396	4,763	5,837	7,099	6,801	6,573	2,556	2,768	2,780	2,768	2,908	2,910
Physical sciences	3,444	3,446	3,247	3,378	3,345	3,620	3,986	4,209	4,205	4,416	4,326	4,560	4,589	4,703	4,947	4,971
Astronomy	101	103	70	101	101	115	114	128	163	143	160	166	170	174	179	153
Chemistry	2,090	2,134	2,037	2,158	2,105	2,226	2,502	2,606	2,495	2,652	2,564	2,685	2,630	2,730	2,921	2,906
Physics	1,208	1,169	1,096	1,089	1,119	1,254	1,341	1,442	1,507	1,580	1,570	1,670	1,752	1,740	1,768	1,840
Other physical sciences	45	40	44	30	20	25	29	33	40	41	32	39	37	59	79	72
Social and behavioral sciences	8,182	8,451	8,007	8,124	8,275	8,591	8,576	8,862	8,904	8,547	8,090	8,679	8,840	9,266	9,762	9,950
Psychology	4,200	4,538	4,185	4,258	4,389	4,681	4,484	4,696	4,600	4,046	3,606	3,952	3,868	4,280	4,574	4,533
Social sciences	3,982	3,913	3,822	3,866	3,886	3,910	4,092	4,166	4,304	4,501	4,484	4,727	4,972	4,986	5,188	5,417
Anthropology	471	428	508	487	537	459	480	519	491	527	534	596	585	595	606	577

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Area and ethnic studies	212	216	209	176	204	184	220	226	246	226	237	257	274	272	316	309
Economics	1,001	1,016	961	967	978	1,111	1,057	1,107	1,172	1,172	1,120	1,152	1,271	1,227	1,212	1,283
History of science	23	21	20	27	20	28	34	27	34	19	31	27	24	29	41	31
Linguistics	202	193	152	201	194	172	216	219	215	240	203	235	249	237	240	266
Political science and public administration	1,019	1,047	992	1,055	1,001	1,049	1,098	1,093	1,104	1,244	1,312	1,314	1,402	1,507	1,537	1,622
Sociology	602	550	547	598	564	534	574	573	594	635	612	671	635	626	692	733
Other social sciences	452	442	433	355	388	373	413	402	448	438	435	475	532	493	544	596
Non-S&E	17,085	16,972	16,723	17,431	17,581	18,387	18,768	19,907	20,236	20,619	20,694	21,377	22,243	23,324	23,596	24,594
U.S. citizen or permanent resident																
All fields	34,113	34,105	33,382	34,551	35,807	38,512	40,334	43,888	44,509	45,019	41,759	43,514	45,203	47,233	49,267	50,859
S&E	19,401	19,382	19,110	19,731	21,136	23,113	24,816	27,283	27,594	27,753	24,106	25,296	26,057	27,209	28,785	29,338
Engineering	2,656	2,562	2,261	2,237	2,347	2,452	2,714	2,994	3,180	3,374	3,507	3,713	3,926	4,123	4,451	4,620
Aerospace	125	101	77	72	73	91	80	108	103	137	122	130	163	169	208	194
Chemical	364	357	354	295	340	360	423	373	417	437	469	440	442	428	520	564
Civil	319	300	273	283	257	296	296	359	330	348	347	353	366	410	465	535
Electrical	641	587	506	478	531	567	560	645	704	711	757	815	847	813	822	855
Industrial	104	109	115	93	119	107	117	129	125	112	116	124	124	133	136	111
Materials	240	217	172	198	205	191	242	286	284	281	316	283	363	348	348	374
Mechanical	384	414	335	336	307	338	388	376	406	472	425	505	556	614	643	683

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Other	479	477	429	482	515	502	608	718	811	876	955	1,063	1,065	1,208	1,309	1,304
Science	16,745	16,820	16,849	17,494	18,789	20,661	22,102	24,289	24,414	24,379	20,599	21,583	22,131	23,086	24,334	24,718
Natural sciences	9,779	9,682	10,048	10,765	11,872	13,661	15,139	17,116	17,248	17,699	14,237	14,614	15,075	15,546	16,333	16,579
Agricultural sciences	553	544	549	626	601	611	640	643	668	715	639	660	694	770	755	888
Biological sciences	3,724	3,579	3,443	3,901	4,118	4,330	4,377	4,713	5,091	5,310	5,447	5,513	5,705	5,710	5,957	5,720
Earth, atmospheric, and ocean sciences	409	362	368	376	356	360	389	481	436	477	481	472	498	540	583	566
Atmospheric sciences	57	40	43	46	45	54	45	48	58	68	50	83	75	91	85	99
Earth sciences	280	258	266	259	245	244	296	347	302	333	350	312	339	363	395	391
Oceanography	72	64	59	71	66	62	48	86	76	76	81	77	84	86	103	76
Mathematics and computer sciences	990	920	848	926	963	1,040	1,134	1,325	1,338	1,518	1,645	1,621	1,671	1,761	1,823	1,764
Computer sciences	402	395	410	413	455	500	551	680	667	730	782	772	819	849	875	864
Mathematics and statistics	588	525	438	513	508	540	583	645	671	788	863	849	852	912	948	900
Medical and other health sciences	1,955	2,121	2,796	2,876	3,865	5,284	6,416	7,688	7,408	7,193	3,536	3,696	3,798	3,991	4,392	4,667
Medical sciences	615	582	568	577	655	735	816	862	910	848	1,142	1,108	1,220	1,393	1,656	1,945
Other health sciences	1,340	1,539	2,228	2,299	3,210	4,549	5,600	6,826	6,498	6,345	2,394	2,588	2,578	2,598	2,736	2,722
Physical sciences	2,148	2,156	2,044	2,060	1,969	2,036	2,183	2,266	2,307	2,486	2,489	2,652	2,709	2,774	2,823	2,974
Astronomy	76	78	53	79	75	73	73	89	117	98	119	108	124	120	131	118
Chemistry	1,336	1,383	1,355	1,374	1,321	1,366	1,461	1,464	1,414	1,586	1,542	1,592	1,584	1,653	1,703	1,787
Physics	708	677	604	591	562	585	635	696	754	781	808	928	985	970	951	1,028

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Other physical sciences	28	18	32	16	11	12	14	17	22	21	20	24	16	31	38	41
Social and behavioral sciences	6,966	7,138	6,801	6,729	6,917	7,000	6,963	7,173	7,166	6,680	6,362	6,969	7,056	7,540	8,001	8,139
Psychology	4,042	4,381	4,042	4,059	4,191	4,452	4,230	4,450	4,359	3,770	3,334	3,694	3,617	4,017	4,320	4,261
Social sciences	2,924	2,757	2,759	2,670	2,726	2,548	2,733	2,723	2,807	2,910	3,028	3,275	3,439	3,523	3,681	3,878
Anthropology	409	356	430	420	466	392	425	433	416	431	444	505	490	508	507	489
Area and ethnic studies	180	180	180	149	168	154	187	202	190	178	191	214	220	240	265	263
Economics	474	422	419	377	396	368	371	369	438	408	459	456	538	535	500	566
History of science	18	20	16	24	14	21	28	16	29	12	25	24	17	24	29	19
Linguistics	105	100	84	102	105	95	114	123	114	145	118	146	139	131	139	155
Political science and public administration	856	859	821	827	809	806	827	811	822	919	967	1,013	1,086	1,181	1,234	1,284
Sociology	510	473	474	492	460	436	466	459	477	499	504	555	536	517	580	623
Other social sciences	372	347	335	279	308	276	315	310	321	318	320	362	413	387	427	479
Non-S&E	14,712	14,723	14,272	14,820	14,671	15,399	15,518	16,605	16,915	17,266	17,653	18,218	19,146	20,024	20,482	21,521
Hispanic or Latino[a]																
All fields	1,382	1,594	1,503	1,609	1,739	1,914	1,980	2,138	2,410	2,419	2,294	2,457	2,703	2,938	3,239	3,554
S&E	775	905	840	878	1,057	1,121	1,190	1,301	1,499	1,335	1,312	1,397	1,482	1,641	1,828	2,019
Engineering	86	88	88	106	101	98	105	138	130	153	196	182	191	202	247	286
Aerospace	2	7	3	4	3	4	0	7	3	8	7	8	9	11	16	8
Chemical	18	8	17	13	9	20	20	16	20	22	33	23	30	17	28	31

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Civil	11	14	6	14	21	13	16	25	14	21	26	18	27	24	28	40
Electrical	17	17	26	22	19	14	11	33	27	27	42	41	36	34	41	54
Industrial	3	4	9	2	2	4	12	12	9	6	11	10	5	10	12	11
Materials	7	10	5	9	6	13	12	9	7	10	19	9	14	16	26	26
Mechanical	10	16	11	15	13	14	12	13	17	28	23	31	28	34	34	35
Other	18	12	11	27	28	16	22	23	33	31	35	42	42	56	62	81
Science	689	817	752	772	956	1,023	1,085	1,163	1,369	1,182	1,116	1,215	1,291	1,439	1,581	1,733
Natural sciences	319	386	342	382	468	503	573	619	803	727	674	692	740	820	874	1,014
Agricultural sciences	13	21	20	16	17	14	36	15	18	21	33	45	41	45	49	47
Biological sciences	149	155	139	171	186	216	212	226	274	282	326	324	329	393	379	425
Earth, atmospheric, and ocean sciences	9	10	4	8	10	11	12	18	17	14	16	14	18	24	21	31
Atmospheric sciences	1	0	1	1	0	1	2	2	2	0	0	1	2	2	3	2
Earth sciences	6	6	1	3	10	9	10	12	13	12	13	11	11	19	13	25
Oceanography	2	4	2	4	0	1	0	4	2	2	3	2	5	3	5	4
Mathematics and computer sciences	25	29	28	28	41	38	33	38	45	58	48	48	65	74	66	77
Computer sciences	13	12	19	11	18	17	6	17	16	23	17	19	26	40	31	42
Mathematics and statistics	12	17	9	17	23	21	27	21	29	35	31	29	39	34	35	35
Medical and other health sciences	56	90	82	94	141	148	187	230	337	237	143	138	155	151	208	280
Medical sciences	16	28	22	29	31	30	34	51	84	38	63	67	64	79	100	150

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Other health sciences	40	62	60	65	110	118	153	179	253	199	80	71	91	72	108	130
Physical sciences	67	81	69	65	73	76	93	92	112	115	108	123	132	133	151	154
Astronomy	3	4	1	2	2	2	1	5	3	4	4	5	5	3	3	9
Chemistry	45	59	48	44	58	57	70	65	89	86	72	79	76	89	100	100
Physics	19	18	19	19	13	16	21	22	20	25	32	37	51	41	48	44
Other physical sciences	0	0	1	0	0	1	1	0	0	0	0	2	0	0	0	1
Social and behavioral sciences	370	431	410	390	488	520	512	544	566	455	442	523	551	619	707	719
Psychology	267	308	297	247	339	388	367	417	420	316	277	335	342	408	483	488
Social sciences	103	123	113	143	149	132	145	127	146	139	165	188	209	211	224	231
Anthropology	8	19	20	29	37	20	25	18	29	34	27	40	36	36	51	33
Area and ethnic studies	7	9	10	8	13	12	13	14	11	8	16	14	21	24	23	26
Economics	18	18	13	20	25	22	21	22	16	18	22	16	17	37	23	35
History of science	1	2	0	0	0	1	2	1	0	0	2	1	1	0	2	1
Linguistics	1	5	3	4	2	3	4	3	3	4	3	3	3	5	7	4
Political science and public administration	28	34	35	36	43	35	35	34	36	37	46	50	58	49	61	54
Sociology	24	24	22	37	24	29	37	23	38	22	29	49	53	40	34	54
Other social sciences	16	12	10	9	5	10	8	12	13	16	20	15	20	20	23	24
Non-S&E	607	689	663	731	682	793	790	837	911	1,084	982	1,060	1,221	1,297	1,411	1,535
Not Hispanic or Latino																

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All fields	32,731	32,511	31,879	32,942	34,068	36,598	38,354	41,750	42,099	42,600	39,465	41,057	42,500	44,295	46,028	47,305
S&E	18,626	18,477	18,270	18,853	20,079	21,992	23,626	25,982	26,095	26,418	22,794	23,899	24,575	25,568	26,957	27,319
Engineering	2,570	2,474	2,173	2,131	2,246	2,354	2,609	2,856	3,050	3,221	3,311	3,531	3,735	3,921	4,204	4,334
Aerospace	123	94	74	68	70	87	80	101	100	129	115	122	154	158	192	186
Chemical	346	349	337	282	331	340	403	357	397	415	436	417	412	411	492	533
Civil	308	286	267	269	236	283	280	334	316	327	321	335	339	386	437	495
Electrical	624	570	480	456	512	553	549	612	677	684	715	774	811	779	781	801
Industrial	101	105	106	91	117	103	105	117	116	106	105	114	119	123	124	100
Materials	233	207	167	189	199	178	230	277	277	271	297	274	349	332	322	348
Mechanical	374	398	324	321	294	324	376	363	389	444	402	474	528	580	609	648
Other	461	465	418	455	487	486	586	695	778	845	920	1,021	1,023	1,152	1,247	1,223
Science	16,056	16,003	16,097	16,722	17,833	19,638	21,017	23,126	23,045	23,197	19,483	20,368	20,840	21,647	22,753	22,985
Natural sciences	9,460	9,296	9,706	10,383	11,404	13,158	14,566	16,497	16,445	16,972	13,563	13,922	14,335	14,726	15,459	15,565
Agricultural sciences	540	523	529	610	584	597	604	628	650	694	606	615	653	725	706	841
Biological sciences	3,575	3,424	3,304	3,730	3,932	4,114	4,165	4,487	4,817	5,028	5,121	5,189	5,376	5,317	5,578	5,295
Earth, atmospheric, and ocean sciences	400	352	364	368	346	349	377	463	419	463	465	458	480	516	562	535
Atmospheric sciences	56	40	42	45	45	53	43	46	56	68	50	82	73	89	82	97
Earth sciences	274	252	265	256	235	235	286	335	289	321	337	301	328	344	382	366
Oceanography	70	60	57	67	66	61	48	82	74	74	78	75	79	83	98	72

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mathematics and computer sciences	965	891	820	898	922	1,002	1,101	1,287	1,293	1,460	1,597	1,573	1,606	1,687	1,757	1,687
Computer sciences	389	383	391	402	437	483	545	663	651	707	765	753	793	809	844	822
Mathematics and statistics	576	508	429	496	485	519	556	624	642	753	832	820	813	878	913	865
Medical and other health sciences	1,899	2,031	2,714	2,782	3,724	5,136	6,229	7,458	7,071	6,956	3,393	3,558	3,643	3,840	4,184	4,387
Medical sciences	599	554	546	548	624	705	782	811	826	810	1,079	1,041	1,156	1,314	1,556	1,795
Other health sciences	1,300	1,477	2,168	2,234	3,100	4,431	5,447	6,647	6,245	6,146	2,314	2,517	2,487	2,526	2,628	2,592
Physical sciences	2,081	2,075	1,975	1,995	1,896	1,960	2,090	2,174	2,195	2,371	2,381	2,529	2,577	2,641	2,672	2,820
Astronomy	73	74	52	77	73	71	72	84	114	94	115	103	119	117	128	109
Chemistry	1,291	1,324	1,307	1,330	1,263	1,309	1,391	1,399	1,325	1,500	1,470	1,513	1,508	1,564	1,603	1,687
Physics	689	659	585	572	549	569	614	674	734	756	776	891	934	929	903	984
Other physical sciences	28	18	31	16	11	11	13	17	22	21	20	22	16	31	38	40
Social and behavioral sciences	6,596	6,707	6,391	6,339	6,429	6,480	6,451	6,629	6,600	6,225	5,920	6,446	6,505	6,921	7,294	7,420
Psychology	3,775	4,073	3,745	3,812	3,852	4,064	3,863	4,033	3,939	3,454	3,057	3,359	3,275	3,609	3,837	3,773
Social sciences	2,821	2,634	2,646	2,527	2,577	2,416	2,588	2,596	2,661	2,771	2,863	3,087	3,230	3,312	3,457	3,647
Anthropology	401	337	410	391	429	372	400	415	387	397	417	465	454	472	456	456
Area and ethnic studies	173	171	170	141	155	142	174	188	179	170	175	200	199	216	242	237
Economics	456	404	406	357	371	346	350	347	422	390	437	440	521	498	477	531
History of science	17	18	16	24	14	20	26	15	29	12	23	23	16	24	27	18
Linguistics	104	95	81	98	103	92	110	120	111	141	115	143	136	126	132	151

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Political science and public administration	828	825	786	791	766	771	792	777	786	882	921	963	1,028	1,132	1,173	1,230
Sociology	486	449	452	455	436	407	429	436	439	477	475	506	483	477	546	569
Other social sciences	356	335	325	270	303	266	307	298	308	302	300	347	393	367	404	455
Non-S&E	14,105	14,034	13,609	14,089	13,989	14,606	14,728	15,768	16,004	16,182	16,671	17,158	17,925	18,727	19,071	19,986
American Indian or Alaska Native																
All fields	155	170	175	185	206	224	214	232	244	282	224	232	231	261	241	264
S&E	82	88	84	106	117	109	111	128	139	154	121	122	117	130	131	137
Engineering	5	10	6	12	8	6	7	8	15	19	10	15	11	7	13	12
Aerospace	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0
Chemical	0	3	1	1	1	0	1	1	2	5	0	4	1	1	1	4
Civil	1	0	1	0	1	0	0	3	2	3	1	1	2	0	0	2
Electrical	1	3	0	3	3	0	2	1	2	2	4	0	1	2	3	1
Industrial	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	0
Materials	0	0	1	0	0	1	0	0	1	1	1	3	1	0	2	0
Mechanical	2	2	2	1	1	2	2	1	3	2	2	4	2	1	0	3
Other	1	2	1	7	2	2	1	2	3	6	1	3	2	2	6	2
Science	77	78	78	94	109	103	104	120	124	135	111	107	106	123	118	125
Natural sciences	34	33	36	39	53	56	50	62	74	83	63	62	69	67	67	71
Agricultural sciences	2	1	0	1	7	4	1	3	8	5	6	5	9	4	5	8

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Biological sciences	8	14	14	18	16	18	19	23	20	27	21	25	33	25	16	24
Earth, atmospheric, and ocean sciences	6	0	0	1	3	3	0	2	2	2	2	0	2	4	1	3
Atmospheric sciences	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
Earth sciences	5	0	0	1	2	2	0	1	2	1	1	0	1	4	0	3
Oceanography	1	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0
Mathematics and computer sciences	2	3	2	2	1	0	6	4	2	5	5	8	2	3	8	5
Computer sciences	0	1	1	1	1	0	6	3	0	2	3	3	2	0	7	4
Mathematics and statistics	2	2	1	1	0	0	0	1	2	3	2	5	0	3	1	1
Medical and other health sciences	8	10	11	11	14	24	15	23	37	34	18	14	17	23	21	20
Medical sciences	4	4	2	4	2	2	3	5	5	7	4	5	4	7	9	6
Other health sciences	4	6	9	7	12	22	12	18	32	27	14	9	13	16	12	14
Physical sciences	8	5	9	6	12	7	9	7	5	10	11	10	6	8	16	11
Astronomy	1	0	0	0	0	0	0	0	0	0	1	0	1	2	1	0
Chemistry	7	5	7	6	9	6	6	3	4	7	8	7	4	4	12	5
Physics	0	0	2	0	3	1	3	4	1	3	2	3	1	2	3	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Social and behavioral sciences	43	45	42	55	56	47	54	58	50	52	48	45	37	56	51	54
Psychology	28	27	24	31	36	29	32	36	31	23	19	23	22	31	20	21
Social sciences	15	18	18	24	20	18	22	22	19	29	29	22	15	25	31	33

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Anthropology	4	3	6	6	5	4	4	6	1	6	9	4	6	6	7	8
Area and ethnic studies	2	2	3	2	3	4	5	6	6	11	6	6	6	10	6	10
Economics	0	0	0	2	1	0	2	2	1	1	1	1	0	0	1	3
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	1	0	0	0	0	1	1	2	0	1	0	0	2	1	1
Political science and public administration	3	7	1	4	4	3	4	0	6	6	5	4	2	5	8	7
Sociology	4	4	7	6	1	5	0	4	3	3	3	4	0	1	6	3
Other social sciences	2	1	1	4	6	2	6	3	0	2	4	3	1	1	2	1
Non-S&E	73	82	91	79	89	115	103	104	105	128	103	110	114	131	110	127
Asian																
All fields	na	na	na	na	na	na	na	na	na	na	na	3,125	3,340	3,431	3,437	3,664
S&E	na	na	na	na	na	na	na	na	na	na	na	2,333	2,468	2,467	2,513	2,669
Engineering	na	na	na	na	na	na	na	na	na	na	na	599	573	589	637	664
Aerospace	na	na	na	na	na	na	na	na	na	na	na	16	15	16	18	12
Chemical	na	na	na	na	na	na	na	na	na	na	na	58	66	57	70	81
Civil	na	na	na	na	na	na	na	na	na	na	na	46	35	36	42	59
Electrical	na	na	na	na	na	na	na	na	na	na	na	179	184	167	179	157
Industrial	na	na	na	na	na	na	na	na	na	na	na	14	9	11	16	17
Materials	na	na	na	na	na	na	na	na	na	na	na	46	56	51	45	50

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mechanical	na	na	na	na	na	na	na	na	na	na	na	59	47	60	85	81
Other	na	na	na	na	na	na	na	na	na	na	na	181	161	191	182	207
Science	na	na	na	na	na	na	na	na	na	na	na	1,734	1,895	1,878	1,876	2,005
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	1,327	1,450	1,458	1,425	1,521
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	28	34	29	34	35
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	596	659	656	646	667
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	22	19	13	21	17
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	6	5	2	3	6
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	12	13	9	14	11
Oceanography	na	na	na	na	na	na	na	na	na	na	na	4	1	2	4	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	217	199	230	189	192
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	128	129	128	110	112
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	89	70	102	79	80
Medical and other health sciences	na	na	na	na	na	na	na	na	na	na	na	260	302	294	295	354
Medical sciences	na	na	na	na	na	na	na	na	na	na	na	133	138	141	172	202
Other health sciences	na	na	na	na	na	na	na	na	na	na	na	127	164	153	123	152
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	204	237	236	240	256
Astronomy	na	na	na	na	na	na	na	na	na	na	na	4	7	6	7	9
Chemistry	na	na	na	na	na	na	na	na	na	na	na	135	165	155	149	174

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Physics	na	na	na	na	na	na	na	na	na	na	na	63	65	72	82	73
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	2	0	3	2	0
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	407	445	420	451	484
Psychology	na	na	na	na	na	na	na	na	na	na	na	189	213	199	213	255
Social sciences	na	na	na	na	na	na	na	na	na	na	na	218	232	221	238	229
Anthropology	na	na	na	na	na	na	na	na	na	na	na	23	21	35	32	21
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	21	24	16	25	14
Economics	na	na	na	na	na	na	na	na	na	na	na	55	60	58	60	65
History of science	na	na	na	na	na	na	na	na	na	na	na	1	1	0	2	1
Linguistics	na	na	na	na	na	na	na	na	na	na	na	14	19	9	8	12
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	58	57	70	51	59
Sociology	na	na	na	na	na	na	na	na	na	na	na	35	31	22	37	35
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	11	19	11	23	22
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	792	872	964	924	995
Asian or Pacific Islander[b]																
All fields	2,297	2,440	2,184	2,259	2,464	2,695	2,996	3,251	3,201	3,203	3,183	na	na	na	na	na
S&E	1,714	1,767	1,606	1,651	1,816	2,071	2,249	2,414	2,393	2,394	2,325	na	na	na	na	na
Engineering	380	398	357	292	346	372	470	508	501	504	517	na	na	na	na	na
Aerospace	9	11	3	8	8	8	11	8	9	16	12	na	na	na	na	na

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Chemical	50	49	65	44	64	43	70	63	55	56	65	na	na	na	na	na
Civil	37	33	30	19	25	40	44	50	38	35	37	na	na	na	na	na
Electrical	120	127	111	112	97	128	121	156	174	156	154	na	na	na	na	na
Industrial	13	14	10	12	14	17	10	15	17	15	15	na	na	na	na	na
Materials	27	26	22	14	27	17	38	55	27	32	43	na	na	na	na	na
Mechanical	67	76	49	40	52	42	66	52	45	50	46	na	na	na	na	na
Other	57	62	67	43	59	77	110	109	136	144	145	na	na	na	na	na
Science	1,334	1,369	1,249	1,359	1,470	1,699	1,779	1,906	1,892	1,890	1,808	na	na	na	na	na
Natural sciences	979	982	914	1,000	1,086	1,313	1,361	1,451	1,442	1,461	1,393	na	na	na	na	na
Agricultural sciences	26	24	17	28	28	22	25	24	34	34	32	na	na	na	na	na
Biological sciences	429	399	388	475	489	508	477	563	575	567	650	na	na	na	na	na
Earth, atmospheric, and ocean sciences	15	25	12	15	12	16	23	11	17	15	15	na	na	na	na	na
Atmospheric sciences	3	5	1	6	4	6	6	1	1	1	2	na	na	na	na	na
Earth sciences	12	19	8	7	8	6	16	8	12	10	11	na	na	na	na	na
Oceanography	0	1	3	2	0	4	1	2	4	4	2	na	na	na	na	na
Mathematics and computer sciences	127	108	98	98	110	142	155	190	140	194	208	na	na	na	na	na
Computer sciences	56	53	72	55	62	88	92	111	87	116	124	na	na	na	na	na
Mathematics and statistics	71	55	26	43	48	54	63	79	53	78	84	na	na	na	na	na
Medical and other health sciences	196	211	229	214	276	416	461	441	460	447	271	na	na	na	na	na

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Medical sciences	69	69	67	67	69	107	124	104	107	102	136	na	na	na	na	na
Other health sciences	127	142	162	147	207	309	337	337	353	345	135	na	na	na	na	na
Physical sciences	186	215	170	170	171	209	220	222	216	204	217	na	na	na	na	na
Astronomy	8	4	3	5	7	6	6	6	4	3	4	na	na	na	na	na
Chemistry	124	138	120	111	127	139	160	155	150	148	151	na	na	na	na	na
Physics	52	73	45	53	37	62	54	60	57	53	60	na	na	na	na	na
Other physical sciences	2	0	2	1	0	2	0	1	5	0	2	na	na	na	na	na
Social and behavioral sciences	355	387	335	359	384	386	418	455	450	429	415	na	na	na	na	na
Psychology	181	209	177	195	224	221	242	265	252	207	197	na	na	na	na	na
Social sciences	174	178	158	164	160	165	176	190	198	222	218	na	na	na	na	na
Anthropology	16	19	13	22	23	17	23	23	29	18	19	na	na	na	na	na
Area and ethnic studies	7	11	13	17	18	13	14	16	9	10	21	na	na	na	na	na
Economics	44	42	44	38	33	46	47	50	49	48	53	na	na	na	na	na
History of science	0	0	0	1	0	1	2	1	1	0	0	na	na	na	na	na
Linguistics	15	13	10	10	10	10	20	24	9	27	12	na	na	na	na	na
Political science and public administration	44	46	41	42	38	41	38	42	45	60	71	na	na	na	na	na
Sociology	27	33	25	25	25	26	21	23	38	38	28	na	na	na	na	na
Other social sciences	21	14	12	9	13	11	11	11	18	21	14	na	na	na	na	na
Non-S&E	583	673	578	608	648	624	747	837	808	809	858	na	na	na	na	na

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Black or African American																
All fields	2,147	2,091	2,268	2,362	2,725	2,854	2,884	3,452	3,478	3,645	3,372	3,759	4,049	4,331	4,780	5,050
S&E	821	838	871	893	1,034	1,071	1,204	1,287	1,352	1,451	1,239	1,426	1,480	1,637	1,816	1,855
Engineering	91	98	80	94	99	101	110	117	128	139	154	141	175	187	172	165
Aerospace	4	1	1	1	0	1	4	2	2	3	3	4	9	4	2	5
Chemical	8	15	10	8	7	9	13	18	17	11	14	15	11	13	17	11
Civil	8	9	11	11	6	10	9	10	9	9	12	14	13	14	19	26
Electrical	23	28	17	19	33	28	20	24	21	30	27	32	43	34	40	31
Industrial	6	5	6	6	10	6	11	8	18	10	16	13	18	23	10	10
Materials	5	5	4	9	6	7	11	8	13	15	18	10	14	20	12	8
Mechanical	24	17	16	12	18	12	13	16	23	19	15	13	21	29	17	21
Other	13	18	15	28	19	28	29	31	25	42	49	40	46	50	55	53
Science	730	740	791	799	935	970	1,094	1,170	1,224	1,312	1,085	1,285	1,305	1,450	1,644	1,690
Natural sciences	316	308	344	366	459	492	605	664	754	831	661	740	799	862	942	933
Agricultural sciences	20	16	16	26	20	19	28	24	26	28	47	21	38	33	32	31
Biological sciences	106	101	112	110	159	152	173	173	229	252	206	249	267	284	271	219
Earth, atmospheric, and ocean sciences	3	3	3	11	5	3	3	7	7	6	5	5	15	11	12	11
Atmospheric sciences	1	0	1	2	1	0	2	2	1	2	0	1	3	4	0	4
Earth sciences	2	3	2	6	3	2	0	3	5	4	5	3	10	5	9	6

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Oceanography	0	0	0	3	1	1	1	2	1	0	0	1	2	2	3	1
Mathematics and computer sciences	28	26	35	36	26	37	41	51	46	57	57	54	60	79	79	77
Computer sciences	15	9	21	17	18	19	21	30	24	30	33	31	39	52	52	57
Mathematics and statistics	13	17	14	19	8	18	20	21	22	27	24	23	21	27	27	20
Medical and other health sciences	94	90	109	118	185	229	305	323	369	410	266	325	340	360	441	488
Medical sciences	36	30	29	36	46	62	74	75	73	78	106	132	151	157	233	262
Other health sciences	58	60	80	82	139	167	231	248	296	332	160	193	189	203	208	226
Physical sciences	65	72	69	65	64	52	55	86	77	78	80	86	79	95	107	107
Astronomy	1	0	1	1	1	0	1	2	0	0	2	1	0	0	1	1
Chemistry	45	56	46	47	51	37	43	64	62	66	59	67	58	78	81	88
Physics	19	16	22	17	11	15	11	20	15	11	18	17	21	15	21	18
Other physical sciences	0	0	0	0	1	0	0	0	0	1	1	1	0	2	4	0
Social and behavioral sciences	414	432	447	433	476	478	489	506	470	481	424	545	506	588	702	757
Psychology	214	240	231	241	281	275	256	278	271	259	212	275	238	299	362	414
Social sciences	200	192	216	192	195	203	233	228	199	222	212	270	268	289	340	343
Anthropology	20	12	25	23	26	24	21	19	18	22	21	18	14	20	21	17
Area and ethnic studies	17	25	28	17	22	21	36	38	36	33	30	30	36	38	42	39
Economics	22	9	19	11	19	9	18	18	15	8	10	19	15	21	18	11
History of science	0	1	1	0	0	1	1	1	0	1	0	0	0	1	1	1

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Linguistics	1	4	1	0	4	2	5	0	2	2	2	5	3	2	4	3
Political science and public administration	70	79	78	79	67	83	90	85	67	94	80	121	126	143	176	184
Sociology	50	42	44	51	40	44	45	47	45	48	51	47	48	51	55	65
Other social sciences	20	20	20	11	17	19	17	20	16	14	18	30	26	13	23	23
Non-S&E	1,326	1,253	1,397	1,469	1,691	1,783	1,680	2,165	2,126	2,194	2,133	2,333	2,569	2,694	2,964	3,195
Native Hawaiian or Other Pacific Islander																
All fields	na	na	na	na	na	na	na	na	na	na	na	55	55	70	70	76
S&E	na	na	na	na	na	na	na	na	na	na	na	37	23	27	44	34
Engineering	na	na	na	na	na	na	na	na	na	na	na	4	2	7	8	1
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	1	0	1	0	0
Civil	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0
Electrical	na	na	na	na	na	na	na	na	na	na	na	0	0	2	1	0
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Materials	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1
Mechanical	na	na	na	na	na	na	na	na	na	na	na	0	1	1	1	0
Other	na	na	na	na	na	na	na	na	na	na	na	3	1	3	4	0
Science	na	na	na	na	na	na	na	na	na	na	na	33	21	20	36	33
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	26	20	12	28	25

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	1	0	1	1	1
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	12	10	7	12	8
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	0	1	0	0	1
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	1	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	3	2	0	1	2
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	2	0	0	0	0
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	1	2	0	1	2
Medical and other health sciences	na	na	na	na	na	na	na	na	na	na	na	4	3	4	11	8
Medical sciences	na	na	na	na	na	na	na	na	na	na	na	2	2	1	6	2
Other health sciences	na	na	na	na	na	na	na	na	na	na	na	2	1	3	5	6
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	6	4	0	3	5
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	4	4	0	1	3
Physics	na	na	na	na	na	na	na	na	na	na	na	2	0	0	2	2
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	7	1	8	8	8
Psychology	na	na	na	na	na	na	na	na	na	na	na	1	0	4	6	3

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Social sciences	na	na	na	na	na	na	na	na	na	na	na	6	1	4	2	5
Anthropology	na	na	na	na	na	na	na	na	na	na	na	1	0	1	0	1
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	1	0	0	1	2
Economics	na	na	na	na	na	na	na	na	na	na	na	1	0	0	0	0
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	1	1	3	1	2
Sociology	na	na	na	na	na	na	na	na	na	na	na	2	0	0	0	0
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	18	32	43	26	42
White																
All fields	26,471	25,865	25,319	25,864	26,425	28,152	29,114	31,355	31,342	31,526	28,670	29,455	30,345	31,614	32,622	33,218
S&E	14,975	14,663	14,620	14,926	15,765	17,082	18,057	19,929	19,824	20,004	16,736	17,346	17,931	18,615	19,552	19,714
Engineering	1,948	1,844	1,592	1,571	1,633	1,696	1,818	1,973	2,112	2,235	2,286	2,393	2,592	2,701	2,928	3,023
Aerospace	108	79	65	48	61	73	60	81	81	99	90	93	112	128	156	150
Chemical	275	271	240	209	242	275	297	250	296	312	331	307	296	300	357	383
Civil	238	225	205	216	188	209	208	245	231	241	235	228	257	295	324	347
Electrical	436	374	325	282	331	346	346	367	397	415	426	468	486	474	453	494
Industrial	79	79	83	67	88	73	77	82	71	71	66	77	78	76	89	64

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Materials	191	170	135	150	159	136	163	191	209	194	208	183	253	234	233	263
Mechanical	261	285	236	254	200	242	274	265	282	320	310	343	402	428	437	484
Other	360	361	303	345	364	342	393	492	545	583	620	694	708	766	879	838
Science	13,027	12,819	13,028	13,355	14,132	15,386	16,239	17,956	17,712	17,769	14,450	14,953	15,339	15,914	16,624	16,691
Natural sciences	7,621	7,387	7,863	8,263	9,052	10,324	11,300	12,877	12,716	13,094	10,033	10,333	10,578	10,919	11,446	11,501
Agricultural sciences	470	453	474	522	502	519	526	541	534	576	480	509	519	586	577	673
Biological sciences	2,845	2,689	2,613	2,912	3,047	3,172	3,206	3,426	3,608	3,782	3,759	3,787	3,859	3,860	4,067	3,886
Earth, atmospheric, and ocean sciences	344	301	332	318	311	300	328	400	349	390	395	385	404	450	483	444
Atmospheric sciences	50	33	40	36	37	43	30	39	49	61	43	67	61	75	77	82
Earth sciences	230	210	242	224	212	204	258	289	235	263	280	258	274	302	322	302
Oceanography	64	58	50	58	62	53	40	72	65	66	72	60	69	73	84	60
Mathematics and computer sciences	746	687	624	671	697	706	784	895	936	1,042	1,140	1,141	1,162	1,183	1,262	1,211
Computer sciences	289	287	264	282	309	308	356	437	446	483	506	514	526	531	554	535
Mathematics and statistics	457	400	360	389	388	398	428	458	490	559	634	627	636	652	708	676
Medical and other health sciences	1,544	1,643	2,247	2,249	2,995	4,101	4,811	5,948	5,604	5,452	2,458	2,598	2,676	2,799	3,055	3,155
Medical sciences	465	417	422	398	471	475	531	578	583	553	736	657	755	858	971	1,170
Other health sciences	1,079	1,226	1,825	1,851	2,524	3,626	4,280	5,370	5,021	4,899	1,722	1,941	1,921	1,941	2,084	1,985
Physical sciences	1,672	1,614	1,573	1,591	1,500	1,526	1,645	1,667	1,685	1,852	1,801	1,913	1,958	2,041	2,002	2,132
Astronomy	55	52	41	61	63	62	57	63	94	85	97	84	105	98	100	80

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Chemistry	1,030	1,028	1,031	1,078	986	1,021	1,080	1,071	993	1,145	1,095	1,131	1,104	1,197	1,178	1,243
Physics	561	516	473	437	442	435	496	519	582	603	592	681	734	721	695	774
Other physical sciences	26	18	28	15	9	8	12	14	16	19	17	17	15	25	29	35
Social and behavioral sciences	5,406	5,432	5,165	5,092	5,080	5,062	4,939	5,079	4,996	4,675	4,417	4,620	4,761	4,995	5,178	5,190
Psychology	3,186	3,373	3,104	3,145	3,057	3,241	3,034	3,171	3,036	2,664	2,342	2,471	2,435	2,633	2,799	2,661
Social sciences	2,220	2,059	2,061	1,947	2,023	1,821	1,905	1,908	1,960	2,011	2,075	2,149	2,326	2,362	2,379	2,529
Anthropology	332	283	326	313	349	296	325	330	299	308	318	365	359	349	330	331
Area and ethnic studies	123	116	106	84	93	84	91	103	109	95	92	113	106	129	122	138
Economics	349	325	318	272	286	244	237	233	292	281	322	279	375	355	331	372
History of science	11	15	12	20	13	17	19	13	20	11	21	20	12	22	18	16
Linguistics	82	66	65	74	82	73	74	86	95	99	89	104	99	95	100	110
Political science and public administration	659	636	625	596	605	591	580	573	578	622	648	627	710	753	781	817
Sociology	375	343	340	356	352	301	337	326	321	354	355	375	355	360	391	401
Other social sciences	289	275	269	232	243	215	242	244	246	241	230	266	310	299	306	344
Non-S&E	11,496	11,202	10,699	10,938	10,660	11,070	11,057	11,426	11,518	11,522	11,934	12,109	12,414	12,999	13,070	13,504
Two or more races[c]																
All fields	na	na	na	na	na	na	na	na	na	na	na	337	397	522	643	777
S&E	na	na	na	na	na	na	na	na	na	na	na	202	252	328	434	502
Engineering	na	na	na	na	na	na	na	na	na	na	na	32	42	59	78	87

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aerospace	na	na	na	na	na	na	na	na	na	na	na	2	6	3	3	5
Chemical	na	na	na	na	na	na	na	na	na	na	na	2	2	5	10	4
Civil	na	na	na	na	na	na	na	na	na	na	na	3	3	4	8	14
Electrical	na	na	na	na	na	na	na	na	na	na	na	5	9	16	15	18
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	1	0	3	3
Materials	na	na	na	na	na	na	na	na	na	na	na	5	5	6	6	7
Mechanical	na	na	na	na	na	na	na	na	na	na	na	6	3	9	12	12
Other	na	na	na	na	na	na	na	na	na	na	na	9	13	16	21	24
Science	na	na	na	na	na	na	na	na	na	na	na	170	210	269	356	415
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	101	129	178	232	270
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	5	4	7	4	14
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	44	59	62	99	110
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	1	6	5	9	8
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	1	1	1	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	0	5	4	7	8
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	0	2	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	5	12	14	20	24
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	3	3	3	7	16
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	2	9	11	13	8

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Medical and other health sciences	na	na	na	na	na	na	na	na	na	na	na	20	20	52	57	68
Medical sciences	na	na	na	na	na	na	na	na	na	na	na	8	10	18	24	31
Other health sciences	na	na	na	na	na	na	na	na	na	na	na	12	10	34	33	37
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	26	28	38	43	46
Astronomy	na	na	na	na	na	na	na	na	na	na	na	2	0	0	3	3
Chemistry	na	na	na	na	na	na	na	na	na	na	na	14	15	24	24	32
Physics	na	na	na	na	na	na	na	na	na	na	na	9	13	14	15	10
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	1	0	0	1	1
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	69	81	91	124	145
Psychology	na	na	na	na	na	na	na	na	na	na	na	40	45	47	72	78
Social sciences	na	na	na	na	na	na	na	na	na	na	na	29	36	44	52	67
Anthropology	na	na	na	na	na	na	na	na	na	na	na	4	9	5	10	9
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	2	4	2	10	7
Economics	na	na	na	na	na	na	na	na	na	na	na	10	4	5	6	12
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	2	4	2	5
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	9	7	15	10	19
Sociology	na	na	na	na	na	na	na	na	na	na	na	3	7	9	8	11
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	1	3	4	6	4

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	135	145	194	209	275
Other or unknown race and ethnicity																
All fields	1,661	1,945	1,933	2,272	2,248	2,673	3,146	3,460	3,834	3,944	4,016	4,094	4,083	4,066	4,232	4,256
S&E	1,034	1,121	1,089	1,277	1,347	1,659	2,005	2,224	2,387	2,415	2,373	2,433	2,304	2,364	2,467	2,408
Engineering	146	124	138	162	160	179	204	250	294	324	344	347	340	371	368	382
Aerospace	2	3	5	11	1	4	5	10	7	11	10	7	11	7	11	14
Chemical	13	11	21	20	17	13	22	25	27	31	26	30	36	34	37	50
Civil	24	19	20	23	16	24	19	26	36	39	36	43	29	37	43	47
Electrical	44	38	27	40	48	51	60	64	83	81	104	90	88	84	90	100
Industrial	3	7	7	6	5	7	6	12	9	10	7	10	12	12	6	6
Materials	10	6	5	16	7	17	18	23	27	29	27	27	20	21	24	19
Mechanical	20	18	21	14	23	26	21	29	36	53	29	49	52	52	57	47
Other	30	22	32	32	43	37	53	61	69	70	105	91	92	124	100	99
Science	888	997	951	1,115	1,187	1,480	1,801	1,974	2,093	2,091	2,029	2,086	1,964	1,993	2,099	2,026
Natural sciences	510	586	549	715	754	973	1,250	1,443	1,459	1,503	1,413	1,333	1,290	1,230	1,319	1,244
Agricultural sciences	22	29	22	33	27	33	24	36	48	51	41	46	49	65	53	79
Biological sciences	187	221	177	215	221	264	290	302	385	400	485	476	489	423	467	381
Earth, atmospheric, and ocean sciences	32	23	17	23	15	27	23	43	44	50	48	45	33	33	36	51
Atmospheric sciences	2	2	0	1	2	3	5	4	5	4	4	7	2	7	2	5

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earth sciences	25	20	13	18	10	21	12	34	35	43	40	28	25	20	30	35
Oceanography	5	1	4	4	3	3	6	5	4	3	4	10	6	6	4	11
Mathematics and computer sciences	62	67	61	91	88	117	115	147	169	162	187	145	169	178	198	176
Computer sciences	29	33	33	47	47	68	70	82	94	76	99	72	94	95	114	98
Mathematics and statistics	33	34	28	44	41	49	45	65	75	86	88	73	75	83	84	78
Medical and other health sciences	57	77	118	190	254	366	637	723	601	613	380	337	285	308	304	294
Medical sciences	25	34	26	43	36	59	50	49	58	70	97	104	96	132	141	122
Other health sciences	32	43	92	147	218	307	587	674	543	543	283	233	189	176	163	172
Physical sciences	150	169	154	163	149	166	161	192	212	227	272	284	265	223	261	263
Astronomy	8	18	7	10	2	3	8	13	16	6	11	12	6	11	16	16
Chemistry	85	97	103	88	90	106	102	106	116	134	157	155	158	106	158	142
Physics	57	54	43	65	56	56	50	71	79	86	104	116	100	105	85	102
Other physical sciences	0	0	1	0	1	1	1	2	1	1	0	1	1	1	2	3
Social and behavioral sciences	378	411	402	400	433	507	551	531	634	588	616	753	674	763	780	782
Psychology	166	224	209	200	254	298	299	283	349	301	287	360	322	396	365	341
Social sciences	212	187	193	200	179	209	252	248	285	287	329	393	352	367	415	441
Anthropology	29	20	40	27	26	31	27	37	40	43	50	50	45	56	56	69
Area and ethnic studies	24	17	20	21	19	20	28	25	19	21	26	27	23	21	36	27
Economics	41	28	25	34	32	47	46	44	65	52	51	75	67	59	61	68

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
History of science	6	2	3	3	1	1	4	0	8	0	2	2	3	1	6	0
Linguistics	6	11	5	14	7	7	10	9	3	13	11	20	13	14	17	20
Political science and public administration	52	57	41	70	52	53	80	77	90	100	117	143	125	143	146	142
Sociology	30	27	36	17	18	31	26	36	32	34	38	40	42	34	49	54
Other social sciences	24	25	23	14	24	19	31	20	28	24	34	36	34	39	44	61
Non-S&E	627	824	844	995	901	1,014	1,141	1,236	1,447	1,529	1,643	1,661	1,779	1,702	1,765	1,848
Temporary visa holder																
All fields	10,834	10,963	10,929	11,626	12,753	14,343	15,975	16,999	17,207	16,711	15,646	16,333	16,868	17,654	18,324	18,256
S&E	8,461	8,714	8,478	9,015	9,843	11,355	12,725	13,697	13,886	13,358	12,605	13,174	13,771	14,354	15,210	15,183
Engineering	2,728	2,999	2,935	3,045	3,584	4,096	4,688	5,072	4,930	4,541	4,305	4,765	4,947	5,366	5,684	5,786
Aerospace	78	101	116	106	117	114	129	126	129	120	106	107	112	141	128	116
Chemical	301	323	339	313	368	512	488	542	533	449	460	511	527	573	649	633
Civil	309	347	396	402	479	534	568	576	579	554	504	541	556	626	689	695
Electrical	874	940	855	924	1,103	1,215	1,564	1,735	1,575	1,379	1,412	1,537	1,628	1,656	1,820	1,796
Industrial	114	153	160	165	161	179	185	235	221	221	174	195	224	256	264	243
Materials	214	237	209	259	289	323	369	377	381	380	337	368	352	409	386	436
Mechanical	437	492	478	450	528	625	751	762	743	714	597	667	721	770	811	903
Other	401	406	382	426	539	594	634	719	769	724	715	839	827	935	937	964
Science	5,733	5,715	5,543	5,970	6,259	7,259	8,037	8,625	8,956	8,817	8,300	8,409	8,824	8,988	9,526	9,397

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Natural sciences	4,517	4,402	4,337	4,575	4,901	5,668	6,424	6,936	7,218	6,950	6,572	6,699	7,040	7,262	7,765	7,586
Agricultural sciences	431	390	420	434	415	393	397	425	412	428	343	393	450	448	473	493
Biological sciences	1,268	1,171	1,153	1,311	1,373	1,595	1,761	1,990	2,228	2,119	2,124	2,083	2,112	2,115	2,250	2,170
Earth, atmospheric, and ocean sciences	170	180	194	168	184	212	211	246	247	247	232	215	239	254	278	261
Atmospheric sciences	30	30	25	32	32	42	50	39	48	42	50	37	50	46	41	47
Earth sciences	113	122	138	109	124	135	134	166	167	170	146	155	158	167	211	184
Oceanography	27	28	31	27	28	35	27	41	32	35	36	23	31	41	26	30
Mathematics and computer sciences	868	849	829	899	1,012	1,261	1,579	1,628	1,720	1,592	1,510	1,531	1,689	1,872	1,976	1,989
Computer sciences	375	373	340	403	455	621	865	917	1,029	844	779	790	871	960	1,060	1,087
Mathematics and statistics	493	476	489	496	557	640	714	711	691	748	731	741	818	912	916	902
Medical and other health sciences	484	522	538	445	541	623	673	704	713	634	526	569	670	644	664	676
Medical sciences	278	282	314	273	355	409	436	431	410	406	364	389	468	474	492	488
Other health sciences	206	240	224	172	186	214	237	273	303	228	162	180	202	170	172	188
Physical sciences	1,296	1,290	1,203	1,318	1,376	1,584	1,803	1,943	1,898	1,930	1,837	1,908	1,880	1,929	2,124	1,997
Astronomy	25	25	17	22	26	42	41	39	46	45	41	58	46	54	48	35
Chemistry	754	751	682	784	784	860	1,041	1,142	1,081	1,066	1,022	1,093	1,046	1,077	1,218	1,119
Physics	500	492	492	498	557	669	706	746	753	799	762	742	767	770	817	812
Other physical sciences	17	22	12	14	9	13	15	16	18	20	12	15	21	28	41	31
Social and behavioral sciences	1,216	1,313	1,206	1,395	1,358	1,591	1,613	1,689	1,738	1,867	1,728	1,710	1,784	1,726	1,761	1,811

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Psychology	158	157	143	199	198	229	254	246	241	276	272	258	251	263	254	272
Social sciences	1,058	1,156	1,063	1,196	1,160	1,362	1,359	1,443	1,497	1,591	1,456	1,452	1,533	1,463	1,507	1,539
Anthropology	62	72	78	67	71	67	55	86	75	96	90	91	95	87	99	88
Area and ethnic studies	32	36	29	27	36	30	33	24	56	48	46	43	54	32	51	46
Economics	527	594	542	590	582	743	686	738	734	764	661	696	733	692	712	717
History of science	5	1	4	3	6	7	6	11	5	7	6	3	7	5	12	12
Linguistics	97	93	68	99	89	77	102	96	101	95	85	89	110	106	101	111
Political science and public administration	163	188	171	228	192	243	271	282	282	325	345	301	316	326	303	338
Sociology	92	77	73	106	104	98	108	114	117	136	108	116	99	109	112	110
Other social sciences	80	95	98	76	80	97	98	92	127	120	115	113	119	106	117	117
Non-S&E	2,373	2,249	2,451	2,611	2,910	2,988	3,250	3,302	3,321	3,353	3,041	3,159	3,097	3,300	3,114	3,073

na = not applicable; data were not collected for this detail.

[a] Beginning in 2008, the category includes Hispanic or one or more races.

[b] Pacific Islander includes Native Hawaiian or Other Pacific Islander.

[c] In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race for the years after 2011 is likely to be an undercount.

Note(s)

Racial and ethnic breakouts include U.S. citizens and permanent residents only; temporary visa holder includes all racial and ethnic groups. Data in this table differ from doctoral degree data in other tables and figures in this report that are based on the National Science Foundation (NSF) Survey of Earned Doctorates and that refer to research doctorates only. The greatest differences are in psychology, education, and medical and other health sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories (doctor's and first-professional). Data in this table for those years include only the doctor's category. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories (doctor's — research/scholarship, doctor's — professional practice, and doctor's — other) in addition to the doctor's category. For those 2 years, data in this table include only doctorates reported in the doctor's category plus those reported in doctor's — research/ scholarship. In 2010, NCES required institutions to use only the three new doctoral degree categories, and data in this table for 2010 and later include only doctorates reported in the category doctor's — research/ scholarship. This change primarily affects data for other health sciences.

Source(s)

NCES, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; NSF, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

S*cience and Engineering Indicators 2018*

APPENDIX TABLE 2-33

Expenditures on tertiary education institutions as a percentage of GDP: 2005, 2008, and 2010–13

(Percentage of GDP)

Country	2005	2008	2010	2011	2012	2013
OECD countries						
Australia	1.5	1.5	1.6	1.6	1.6	1.7
Austria	NA	NA	NA	NA	1.8	1.7
Belgium	1.2	1.3	1.3	1.3	1.4	1.4
Canada	2.3	2.4	2.7	2.5	2.5	NA
Chile	2.0	2.1	2.6	2.6	NA	2.4
Czech Republic	1.0	1.1	1.2	1.4	1.4	1.3
Denmark	1.7	1.6	1.8	1.9	NA	1.7
Estonia	1.1	1.3	1.6	1.7	1.6	2.0
Finland	1.7	1.6	1.8	1.9	1.8	1.8
France	1.3	1.4	1.5	1.5	1.4	1.5
Germany	1.0	1.1	1.2	1.2	1.2	1.2
Greece	1.5	NA	NA	NA	NA	NA
Hungary	1.1	NA	NA	NA	1.2	1.3
Iceland	1.2	1.2	1.2	1.1	1.3	1.3
Ireland	1.1	1.4	1.5	1.4	1.4	1.2
Israel	1.8	1.5	1.5	1.6	1.6	1.7
Italy	0.8	0.9	1.0	1.0	0.9	1.0
Japan	1.4	1.5	1.5	1.6	1.5	1.6
South Korea	2.1	2.4	2.4	2.4	2.3	2.3
Latvia	NA	NA	NA	NA	1.4	1.4
Luxembourg	NA	NA	NA	NA	0.4	0.5
Mexico	1.2	1.2	1.4	1.3	1.3	1.3
Netherlands	1.5	1.4	1.6	1.6	1.7	1.7
New Zealand	NA	NA	NA	NA	1.9	1.8

Country	2005	2008	2010	2011	2012	2013
Norway	NA	1.6	1.7	1.6	1.6	1.6
Poland	1.6	1.2	1.5	1.3	1.3	1.4
Portugal	1.3	1.3	1.4	1.3	1.3	1.4
Slovakia	0.9	0.9	0.9	1.0	1.0	1.1
Slovenia	1.3	1.1	1.2	1.3	1.2	1.2
Spain	1.1	1.2	1.3	1.3	1.3	1.3
Sweden	1.5	1.5	1.7	1.7	1.7	1.7
Switzerland	1.3	1.1	1.2	1.2	1.2	1.2
Turkey	NA	NA	NA	NA	1.4	1.7
United Kingdom	NA	NA	NA	NA	1.8	1.8
United States	2.3	2.5	2.6	2.7	2.7	2.6
OECD average	1.4	1.5	1.6	1.6	1.5	1.5
EU22 average[a]	1.2	1.3	1.4	1.4	1.4	1.4
OECD partner countries						
Argentina	NA	NA	NA	NA	NA	1.1
Brazil	0.7	0.8	0.9	0.9	0.8	0.9
China	NA	NA	NA	NA	NA	NA
Colombia	NA	NA	NA	NA	1.9	2.2
Costa Rica	NA	NA	NA	NA	NA	2.6
India	NA	NA	NA	NA	NA	NA
Indonesia	NA	NA	NA	NA	0.8	0.5
Lithuania	NA	NA	NA	NA	NA	1.7
Russia	0.8	1.5	1.6	1.4	1.4	1.4
Saudi Arabia	NA	NA	NA	NA	NA	NA
South Africa	NA	NA	NA	NA	NA	NA

NA = not available.

EU = European Union; GDP = gross domestic product; OECD = Organisation for Economic Co-operation and Development.

[a] EU22 average is the unweighted mean of the data value of the 22 countries that are members of the EU and OECD for which data are available or can be estimated. These 22 countries are Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Luxembourg, Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, and United Kingdom

Note(s)

Data include public and private sources. Data for Brazil, Hungary, Indonesia, Norway, Switzerland, and Turkey are for public expenditures only.

Source(s)

OECD, *Education at a Glance 2016: OECD Indicators*, Indicator B2, table B2.2, https://www.oecd.org/education/skills-beyond-school/education-at-a-glance-2016-indicators.htm, accessed 7 October 2016.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-34

First university degrees, by selected region, country, or economy: 2014 or most recent year

(Number)

Region, country, or economy	Field of first university degree								S&E (%)	Natural sciences (%)	Engineering (%)
	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]			
Asia[b]											
Armenia (2015)	19,702	7,833	1,659	499	671	4,177	827	11,869	39.8	14.4	4.2
Cambodia (2008)	16,435	5,250	441	1,122	312	2,850	525	11,185	31.9	11.4	3.2
China[c]	3,413,787	1,653,565	255,304	NA	59,796	206,239	1,132,226	1,760,222	48.4	9.2	33.2
Georgia	15,516	1,409	NA	NA	321	NA	1,088	14,107	9.1	2.1	7.0
India[d]	6,294,907	1,877,421	849,258	182,261	29,265	NA	816,637	4,417,486	29.8	16.9	13.0
Indonesia (2012)	604,435	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Japan[e]	565,573	315,812	17,828	NA	17,326	193,974	86,684	249,761	55.8	6.2	15.3
Kyrgyzstan	39,933	8,155	NA	NA	385	NA	7,770	31,778	20.4	1.0	19.5
Malaysia (2015)	98,055	42,857	7,187	3,158	1,428	13,689	17,395	55,198	43.7	12.0	17.7
Mongolia	29,477	4,878	NA	NA	784	NA	4,094	24,599	16.5	2.7	13.9
Myanmar (2011)	118,066	55,284	39,095	1,411	752	11,718	2,308	62,782	46.8	34.9	2.0
Singapore[f]	15,041	7,107	1,889	997	NA	NA	4,221	7,934	47.3	19.2	28.1

Region, country, or economy	Field of first university degree								S&E (%)	Natural sciences (%)	Engineering (%)
	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]			
South Korea	329,444	134,761	20,224	11,584	4,473	20,596	77,884	194,683	40.9	11.0	23.6
Taiwan	228,762	83,394	9,408	13,694	4,756	7,538	47,998	145,368	36.5	12.2	21.0
Middle East[b]											
Iran (2015)	450,153	245,453	30,021	35,679	15,088	23,946	140,719	204,700	54.5	17.9	31.3
Israel	50,861	23,786	2,019	1,883	298	13,173	6,414	27,075	46.8	8.3	12.6
Jordan (2011)	55,278	9,638	952	2,850	1,800	2,091	1,945	45,640	17.4	10.1	3.5
Lebanon (2011)	25,926	9,436	2,635	619	152	3,003	3,027	16,490	36.4	13.1	11.7
Palestine (2015)	29,905	8,246	1,140	1,187	245	3,008	2,666	21,659	27.6	8.6	8.9
Qatar	1,662	268	NA	NA	NA	NA	268	1,394	16.1	NA	16.1
Saudi Arabia (2015)	133,833	41,389	15,264	5,663	320	14,195	5,947	92,444	30.9	15.9	4.4
United Arab Emirates (2015)	16,934	6,135	273	1,068	42	2,101	2,651	10,799	36.2	8.2	15.7
Africa[b]											
Egypt (2013)	413,495	45,948	NA	NA	10,000	NA	35,948	367,547	11.1	2.4	8.7
Ethiopia (2012)	79,677	35,763	7,101	13,181	3,227	12,045	209	43,914	44.9	29.5	0.3
Ghana (2013)	44,246	4,442	NA	NA	1,505	NA	2,937	39,804	10.0	3.4	6.6
Madagascar	9,926	872	NA	NA	217	NA	655	9,054	8.8	2.2	6.6

Region, country, or economy	Field of first university degree								S&E (%)	Natural sciences (%)	Engineering (%)
	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]			
Mozambique (2010)	1,022	129	NA	NA	67	NA	62	893	12.6	6.6	6.1
South Africa	85,203	32,208	7,600	2,670	1,676	13,156	7,106	52,995	38	14	8
Sudan (2012)	71,430	17,393	2,276	3,531	3,268	2,863	5,455	54,037	24.3	12.7	7.6
Europe[b]											
EU											
Austria	37,254	14,285	2,412	1,467	376	5,050	4,981	22,968	38.3	11.4	13.4
Belgium	61,356	18,109	1,556	1,280	1,536	6,372	7,365	43,247	29.5	7.1	12.0
Bulgaria	40,022	15,863	712	1,146	654	6,468	6,883	24,159	39.6	6.3	17.2
Croatia	21,661	6,900	890	703	882	1,416	3,009	14,761	31.9	11.4	13.9
Cyprus	3,677	1,232	146	147	29	312	598	2,445	33.5	8.8	16.3
Czech Republic	59,735	19,955	3,665	2,716	1,818	4,730	7,026	39,780	33.4	13.7	11.8
Denmark	41,234	10,416	1,356	1,537	409	3,031	4,083	30,818	25.3	8.0	9.9
Estonia	7,398	2,450	309	371	130	536	1,104	4,948	33.1	10.9	14.9
Finland	35,061	11,679	786	1,151	714	1,671	7,357	23,382	33.3	7.6	21.0
France	327,823	115,039	21,476	12,123	3,754	33,196	44,490	212,784	35.1	11.4	13.6
Germany	374,904	156,600	29,659	15,695	7,440	22,756	81,051	218,304	41.8	14.1	21.6

Region, country, or economy	Field of first university degree								S&E (%)	Natural sciences (%)	Engineering (%)
	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]			
Greece (2012)	32,809	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hungary	39,578	14,355	1,579	935	846	4,326	6,669	25,223	36.3	8.5	16.9
Ireland (2012)	27,378	NA	NA	NA	NA	NA	3,104	NA	NA	NA	11.3
Italy	225,599	85,799	13,234	2,240	4,843	30,631	34,851	139,800	38.0	9.0	15.4
Latvia	8,838	2,794	280	330	160	978	1,046	6,044	31.6	8.7	11.8
Lithuania	25,344	9,394	773	529	535	2,948	4,609	15,950	37.1	7.2	18.2
Luxembourg	599	199	34	14	*	100	51	400	33.2	8.0	8.5
Malta	2,115	901	163	231	12	246	249	1,214	42.6	19.2	11.8
Netherlands	93,306	25,531	1,887	3,802	1,062	10,978	7,802	67,775	27.4	7.2	8.4
Poland	256,910	92,899	10,534	8,636	4,037	29,672	40,020	164,011	36.2	9.0	15.6
Portugal	55,424	22,777	2,744	658	1,052	6,002	12,321	32,647	41.1	8.0	22.2
Romania	90,406	40,877	3,772	1,455	1,907	13,046	20,697	49,529	45.2	7.9	22.9
Slovakia	32,354	10,120	1,358	1,073	642	3,047	4,000	22,234	31.3	9.5	12.4
Slovenia	12,782	5,270	756	553	277	1,683	2,002	7,512	41.2	12.4	15.7
Spain	235,672	82,719	11,366	6,957	3,824	21,588	38,984	152,953	35.1	9.4	16.5
Sweden (2012)	43,113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Region, country, or economy	Field of first university degree								S&E (%)	Natural sciences (%)	Engineering (%)
	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]			
United Kingdom	444,152	180,340	72,818	17,843	4,011	48,579	37,089	263,812	40.6	21.3	8.4
Other Europe											
Albania (2015)	20,401	6,140	1,119	1,149	958	1,294	1,620	14,261	30.1	15.8	7.9
Iceland (2012)	2,828	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macedonia	9,863	2,980	252	715	235	547	1,231	6,883	30.2	12.2	12.5
Norway	33,297	8,353	827	1,137	198	3,054	3,137	24,944	25.1	6.5	9.4
Russia (2012)	1,406,050	445,011	22,913	63,072	21,093	92,818	245,115	961,039	31.6	7.6	17.4
Switzerland	52,405	15,922	1,898	1,336	770	3,033	8,885	36,483	30.4	7.6	17.0
Turkey	399,049	128,672	28,154	917	8,050	47,834	43,717	270,377	32.2	9.3	11.0
Ukraine (2015)	121,182	32,536	2,323	1,449	2,673	7,687	18,404	88,646	26.8	5.3	15.2
America[b]											
North America											
Canada (2013)	193,455	76,938	21,025	3,740	1,092	35,611	15,470	116,517	39.8	13.4	8.0
Mexico (2013)	450,922	180,755	12,768	12,557	8,895	46,204	100,331	270,167	40.1	7.6	22.3
United States	1,890,941	741,763	177,001	61,285	19,621	364,358	119,498	1,149,178	39.2	13.6	6.3

Region, country, or economy	Field of first university degree								S&E (%)	Natural sciences (%)	Engineering (%)
	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]			
Central America and Caribbean											
Costa Rica (2015)	41,546	8,834	335	2,020	427	2,848	3,204	32,712	21.3	6.7	7.7
Cuba	70,341	4,076	NA	NA	1,923	NA	2,153	66,265	5.8	2.7	3.1
Guatemala (2007)	3,751	1,808	118	*	307	531	852	1,943	48.2	11.3	22.7
El Salvador	12,492	2,331	NA	NA	191	NA	2,140	10,161	18.7	1.5	17.1
Honduras (2013)	15,319	2,693	NA	NA	586	NA	2,107	12,626	17.6	3.8	13.8
Panama (2013)	15,184	1,747	NA	NA	102	NA	1,645	13,437	11.5	0.7	10.8
South America											
Argentina	76,413	7,959	4,686	NA	3,273	NA	NA	68,454	10.4	10.4	NA
Brazil (2012)	861,378	165,079	20,567	19,536	16,752	47,012	61,212	696,299	19.2	6.6	7.1
Chile	37,286	11,988	207	2,860	438	1,887	6,596	25,298	32.2	9.4	17.7
Colombia (2014)	167,897	40,932	NA	NA	2,384	NA	38,548	126,965	24.4	1.4	23.0

Region, country, or economy	Field of first university degree								S&E (%)	Natural sciences (%)	Engineering (%)
	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]			
Uruguay (2010)	6,895	2,377	302	243	326	938	568	4,518	34.5	12.6	8.2
Venezuela (2009)	98,035	24,151	856	452	1,409	5,816	15,618	73,884	24.6	2.8	15.9
Oceania[b]											
Australia	239,223	65,744	14,855	9,515	1,403	18,909	21,062	173,479	27.5	10.8	8.8
New Zealand	34,992	11,306	2,642	1,802	344	3,704	2,814	23,686	32.3	13.7	8.0

* = nil or negligible; NA = not available.

EU = European Union.

[a] Includes field unknown or unspecified.

[b] Includes only locations for which relatively recent data are available.

[c] China data include computer sciences under engineering.

[d] India data include social sciences in humanities and arts (non-S&E).

[e] In data for Japan, mathematics are included in natural sciences, computer sciences are included in engineering, and business administration is included in social science. Japan data include thesis doctorates, called *ronbun hakase*, earned by employees in industry.

[f] Singapore data include social sciences in humanities (non-S&E).

Note(s)

Physical and biological sciences and mathematics and statistics include biological and related sciences, environmental sciences, and physical sciences. Computer sciences include information and communication technologies. Agricultural sciences include agriculture, forestry, fisheries, and veterinary sciences. Social and behavioral sciences include social and behavioral sciences, and journalism and information. Engineering includes engineering and engineering trades, manufacturing and processing, and architecture and construction. To facilitate international comparison, data for the United States reflect the most recent classification in the International Standard Classification of Education Fields of Education and Training (ISCED-F), which varies slightly from the National Science Foundation classification of fields presented in other sections of the chapter. Data for first university degrees use ISCED 2011 level 6 (bachelor's or equivalent first degrees) and level 7 (master's or equivalent long first degrees). S&E data do not include health fields.

Source(s)

United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics database, special tabulations (2016); Organisation for Economic Co-operation and Development (OECD), OECD.Stat, https://stats.oecd.org/; National Bureau of Statistics of China, *China Statistical Yearbook* (Beijing) (2015); Government of India, Ministry of Human Resource Development, Department of Higher Education, All India Survey on Higher Education 2014–15 (2016); Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education (2016); Government of Singapore, Ministry of Education, *Education Statistics Digest: 2015*; Ministry of Education, *Educational Statistics of the Republic of China (Taiwan): 2015* (2016); National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

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APPENDIX TABLE 2-35

S&E first university degrees, by selected Western or Asian country or economy and field: 2000–14

(Number)

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Australia															
All fields	129,499	137,877	152,287	130,298	NA	172,818	176,136	177,155	181,457	191,080	196,662	210,638	NA	236,792	239,223
S&E fields	37,064	42,598	47,337	44,521	NA	53,129	51,826	50,029	48,736	48,947	15,564	53,903	NA	63,884	65,744
Physical and biological sciences and mathematics and statistics	9,502	9,173	9,040	10,059	NA	11,355	12,284	12,236	12,257	12,070	NA	12,953	NA	13,766	14,855
Computer sciences	6,896	11,075	14,953	11,904	NA	13,691	10,737	9,210	7,808	7,211	NA	7,308	NA	9,270	9,515
Agricultural sciences	1,666	1,432	1,534	1,503	NA	1,501	1,523	1,448	1,480	1,513	1,522	1,519	NA	1,415	1,403
Social/ behavioral sciences	8,562	9,251	9,673	11,012	NA	14,248	14,619	14,646	14,301	14,907	NA	17,156	NA	18,627	18,909
Engineering	10,438	11,667	12,137	10,043	NA	12,334	12,663	12,489	12,890	13,246	14,042	14,967	NA	20,805	21,062
Canada															
All fields	127,131	NA	NA	NA	137,296	149,910	176,910	160,428	181,580	178,673	178,827	173,021	168,183	193,455	NA
S&E fields	54,029	NA	NA	NA	53,818	60,600	59,937	63,735	72,796	70,474	69,112	67,218	67,338	76,938	NA
Physical and biological sciences and mathematics and statistics	12,120	NA	NA	NA	11,699	11,967	12,138	16,626	19,669	19,176	18,708	18,333	18,429	21,025	NA
Computer sciences	3,657	NA	NA	NA	5,462	6,678	5,565	4,932	3,908	3,512	3,592	3,136	3,221	3,740	NA
Agricultural sciences	1,529	NA	NA	NA	1,609	1,152	1,332	1,206	1,264	1,197	1,194	1,020	930	1,092	NA
Social/ behavioral sciences	27,046	NA	NA	NA	24,390	28,491	28,533	28,662	34,352	33,051	32,337	32,096	31,481	35,611	NA

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Engineering	9,677	NA	NA	NA	10,658	12,312	12,369	12,309	13,603	13,538	13,281	12,633	13,277	15,470	NA
China[a]															
All fields	495,624	567,839	655,763	929,598	1,196,290	1,465,786	1,726,674	1,995,944	2,256,783	2,455,359	2,590,535	2,796,229	3,038,473	3,199,716	3,413,787
S&E fields	359,478	337,352	384,529	533,582	672,463	796,430	911,846	1,031,911	1,143,338	1,225,642	1,288,999	1,387,374	1,500,689	1,559,840	1,653,565
Physical and biological sciences and mathematics and statistics	49,214	63,517	72,526	103,409	134,164	163,076	194,807	228,090	251,610	264,494	269,053	279,101	294,060	248,790	255,304
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	19,154	19,005	22,462	29,758	34,078	35,419	36,740	43,270	45,649	46,847	48,442	51,148	53,789	58,752	59,796
Social/ behavioral sciences	78,205	35,267	37,517	48,878	61,758	80,710	104,665	126,807	141,475	150,666	158,286	172,583	188,257	193,530	206,239
Engineering	212,905	219,563	252,024	351,537	442,463	517,225	575,634	633,744	704,604	763,635	813,218	884,542	964,583	1,058,768	1,132,226
France															
All fields	275,316	NA	309,009	328,784	273,523	285,238	287,035	287,234	286,450	293,071	NA	NA	311,026	324,039	327,823
S&E fields	120,705	NA	117,832	125,304	101,548	NA	107,200	106,765	106,462	107,253	NA	NA	115,140	113,904	115,039
Physical and biological sciences and mathematics and statistics	42,121	NA	35,356	37,549	23,100	NA	24,871	23,474	22,345	21,461	NA	NA	21,568	21,431	21,476
Computer sciences	6,432	NA	7,101	7,536	9,740	NA	9,938	10,425	11,341	11,417	NA	NA	12,314	11,726	12,123
Agricultural sciences	2,724	NA	661	710	3,041	3,398	3,234	3,158	3,297	3,391	NA	NA	3,884	4,092	3,754
Social/ behavioral sciences	35,135	NA	33,493	35,602	27,265	NA	28,613	28,685	28,278	28,854	NA	NA	32,118	33,512	33,196
Engineering	34,293	NA	41,221	43,907	38,402	39,409	40,544	41,023	41,201	42,130	NA	NA	45,256	43,143	44,490
Germany															

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
All fields	169,642	164,862	166,627	172,624	183,384	197,770	212,008	233,317	253,541	281,136	293,984	365,729	365,192	NA	374,904
S&E fields	NA	NA	NA	NA	NA	78,470	NA	NA	124,465	134,781	144,724	152,872	155,223	NA	156,600
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	16,358	NA	NA	34,751	39,573	41,441	43,267	41,630	NA	29,659
Computer sciences	NA	NA	NA	NA	NA	12,199	NA	NA	16,186	16,932	16,560	16,276	16,312	NA	15,695
Agricultural sciences	NA	NA	NA	NA	NA	3,192	NA	NA	3,694	3,888	3,836	4,396	4,266	NA	7,440
Social/ behavioral sciences	NA	NA	NA	NA	NA	13,356	NA	NA	29,705	30,224	33,876	34,671	34,368	NA	22,756
Engineering	NA	NA	NA	NA	NA	33,365	NA	NA	40,129	44,164	49,011	54,262	58,647	NA	81,051
Italy															
All fields	159,276	171,806	201,019	231,968	264,574	291,304	273,451	251,155	231,084	222,631	211,770	216,509	213,013	221,907	225,599
S&E fields	62,075	65,964	76,848	91,899	108,879	122,124	115,346	102,942	91,827	89,220	85,224	84,737	NA	82,834	85,799
Physical and biological sciences and mathematics and statistics	11,865	12,622	13,603	14,951	16,750	16,957	15,569	13,455	12,991	13,095	13,094	13,237	NA	13,061	13,234
Computer sciences	1,626	1,519	2,423	2,843	3,211	3,459	3,541	3,385	2,933	2,870	2,778	2,420	NA	2,247	2,240
Agricultural sciences	2,729	3,117	4,083	4,682	4,760	4,968	4,804	4,744	4,286	4,332	3,989	4,133	NA	4,365	4,843
Social/ behavioral sciences	17,082	18,541	21,377	27,434	38,259	47,616	47,003	42,230	36,664	34,654	32,644	32,118	NA	29,354	30,631
Engineering	28,773	30,165	35,362	41,989	45,899	49,124	44,429	39,128	34,953	34,269	32,719	32,829	NA	33,807	34,851
Japan[b]															
All fields	538,683	545,512	547,711	544,894	548,897	551,016	558,184	559,090	555,690	559,539	541,428	541,428	558,692	558,853	565,573
S&E fields	353,465	359,019	357,282	352,088	351,299	349,015	350,137	344,990	336,815	333,553	321,168	325,365	319,783	316,730	315,812

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Physical and biological sciences and mathematics and statistics	13,300	14,192	19,369	19,549	19,727	19,260	19,805	19,536	19,094	18,790	18,413	18,297	18,116	18,063	17,828
Computer sciences	4,941	4,965	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	15,562	14,084	16,393	15,933	15,865	16,015	16,019	16,122	16,113	16,797	17,071	17,235	17,388	17,330	17,326
Social/ behavioral sciences	216,506	221,300	217,838	215,205	217,276	215,809	217,638	213,179	206,392	204,282	196,061	199,784	196,735	195,024	193,974
Engineering	103,156	104,478	103,682	101,401	98,431	97,931	96,675	96,153	95,216	93,684	89,623	90,049	87,544	86,313	86,684
Mexico															
All fields	NA	296,485	NA	280,589	276,690	309,266	339,340	343,328	336,810	362,241	372,997	402,476	425,754	450,922	NA
S&E fields	NA	101,635	NA	99,134	NA	121,523	131,743	136,777	130,418	143,152	145,876	159,873	170,472	180,755	NA
Physical and biological sciences and mathematics and statistics	NA	7,252	NA	7,610	NA	9,308	10,261	10,684	11,033	11,682	11,668	11,601	12,745	12,768	NA
Computer sciences	NA	21,305	NA	24,221	NA	27,702	28,844	27,612	26,354	25,604	12,392	12,621	12,676	12,557	NA
Agricultural sciences	NA	5,873	NA	5,978	NA	6,169	6,806	6,764	6,454	7,645	6,656	6,794	8,008	8,895	NA
Social/ behavioral sciences	NA	26,203	NA	14,211	NA	31,016	33,577	38,935	33,751	41,688	43,712	44,621	46,651	46,204	NA
Engineering	NA	41,002	NA	47,114	NA	47,328	52,255	52,782	52,826	56,533	71,448	84,236	90,392	100,331	NA
Netherlands															
All fields	69,809	71,237	75,145	82,425	84,194	90,033	94,600	92,844	89,331	90,445	91,389	93,582	102,042	92,323	93,306
S&E fields	19,219	19,393	20,391	21,027	22,643	25,416	28,541	25,829	23,192	22,502	22,642	23,444	26,414	24,570	25,531
Physical and biological sciences and mathematics and statistics	2,464	2,295	2,467	2,523	2,376	2,517	1,539	1,416	1,318	1,312	1,344	1,566	1,731	1,762	1,887

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Computer sciences	1,108	1,303	1,478	1,620	3,511	3,902	4,617	4,385	4,078	3,918	3,843	3,626	3,994	3,520	3,802
Agricultural sciences	1,561	1,636	1,535	1,640	1,865	1,864	1,234	1,239	1,080	1,058	1,275	1,086	1,026	979	1,062
Social/ behavioral sciences	6,337	6,278	6,544	7,014	8,028	10,172	13,497	11,598	9,849	9,207	9,116	9,777	11,322	10,554	10,978
Engineering	7,749	7,881	8,367	8,230	6,863	6,961	7,654	7,191	6,867	7,007	7,064	7,389	8,341	7,755	7,802
Poland															
All fields	207,791	240,976	260,953	269,861	278,509	287,607	293,045	309,526	321,762	327,241	355,220	359,564	318,912	282,071	256,910
S&E fields	67,689	78,951	85,486	90,170	93,268	96,922	110,568	119,826	120,927	119,857	128,991	131,298	112,374	99,525	92,899
Physical and biological sciences and mathematics and statistics	7,783	8,905	9,801	9,363	8,483	8,720	14,394	15,054	15,382	14,800	17,344	15,544	13,016	11,772	10,534
Computer sciences	1,912	3,542	4,112	5,879	10,681	13,116	14,788	14,209	13,023	12,406	12,535	12,315	10,873	9,534	8,636
Agricultural sciences	4,928	5,359	5,740	5,354	5,323	5,668	5,821	6,934	6,994	6,695	7,524	6,437	4,977	4,562	4,037
Social/ behavioral sciences	28,068	34,602	37,212	38,873	39,506	40,298	41,489	46,535	49,849	50,857	53,216	49,852	40,574	34,509	29,672
Engineering	24,998	26,543	28,621	30,701	29,275	29,120	34,076	37,094	35,679	35,099	38,372	47,150	42,934	39,148	40,020
Romania															
All fields	61,329	66,644	79,497	88,005	97,629	97,649	101,143	115,327	232,310	214,617	191,151	171,175	NA	105,068	90,406
S&E fields	20,038	21,472	26,068	29,020	31,070	33,513	34,013	35,910	81,278	90,828	69,751	59,516	NA	46,475	40,877
Physical and biological sciences and mathematics and statistics	3,895	3,883	4,518	4,763	4,679	4,682	4,642	6,948	10,947	6,513	5,909	5,289	NA	3,923	3,772
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	4,553	2,845	2,097	2,001	NA	1,543	1,455
Agricultural sciences	1,588	2,112	2,356	2,106	2,195	2,273	2,495	2,927	2,499	4,461	2,894	2,204	NA	2,173	1,907

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Social/ behavioral sciences	3,836	4,136	6,523	6,875	8,493	9,643	9,902	9,562	43,134	35,326	33,607	28,014	NA	15,003	13,046
Engineering	10,719	11,341	12,671	15,276	15,703	16,915	16,974	16,473	20,145	41,683	25,244	22,008	NA	23,833	20,697
South Korea															
All fields	214,498	239,702	244,852	258,126	267,058	268,833	270,546	277,858	315,204	308,162	NA	321,798	325,665	325,113	329,444
S&E fields	99,352	113,988	116,324	119,104	124,479	123,440	120,612	121,293	134,850	128,788	NA	135,113	133,996	134,627	134,761
Physical and biological sciences and mathematics and statistics	18,096	19,537	17,760	22,232	20,646	19,209	19,039	19,255	19,726	19,902	NA	20,566	20,037	19,703	20,224
Computer sciences	4,630	8,888	8,695	4,934	9,452	9,378	10,519	11,593	13,700	12,306	NA	11,990	12,405	12,436	11,584
Agricultural sciences	6,479	6,210	6,160	2,530	3,520	4,753	4,437	4,215	4,854	4,354	NA	4,419	4,405	4,475	4,473
Social/ behavioral sciences	13,639	17,037	18,767	18,908	20,487	19,298	18,016	18,247	19,332	18,456	NA	20,139	20,641	20,583	20,596
Engineering	56,508	62,316	64,942	70,500	70,374	70,802	68,601	67,983	77,238	73,770	NA	77,999	76,508	77,430	77,884
Spain															
All fields	207,578	211,349	211,979	209,373	202,435	195,946	192,178	185,151	187,420	193,523	197,890	220,221	208,961	NA	235,672
S&E fields	71,842	76,628	76,744	76,313	72,985	70,684	68,432	66,297	64,815	67,114	68,021	77,137	75,110	NA	82,719
Physical and biological sciences and mathematics and statistics	13,772	13,631	12,850	11,957	10,849	9,950	9,206	8,289	8,186	7,612	7,575	8,988	9,545	NA	11,366
Computer sciences	6,146	7,280	6,909	7,519	7,952	8,488	9,205	9,178	8,775	9,031	8,831	7,407	7,768	NA	6,957
Agricultural sciences	6,073	5,746	6,098	6,193	5,592	5,459	4,544	4,330	4,006	4,170	4,122	3,587	3,741	NA	3,824
Social/ behavioral sciences	18,670	19,677	20,093	18,500	17,804	17,925	16,948	16,117	15,668	15,953	16,358	16,303	18,195	NA	21,588
Engineering	27,181	30,294	30,794	32,144	30,788	28,862	28,529	28,383	28,180	30,348	31,135	40,852	35,861	NA	38,984

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Taiwan															
All fields	100,171	117,430	146,166	176,044	192,854	210,763	219,919	228,645	230,198	227,885	227,174	228,878	232,448	226,799	228,762
S&E fields	39,804	48,624	61,540	72,540	79,283	85,891	89,741	92,167	92,636	88,859	88,294	88,102	88,578	84,597	83,394
Physical and biological sciences and mathematics and statistics	6,100	6,211	6,718	7,106	7,283	7,917	8,357	8,986	9,592	9,830	9,864	9,852	10,106	9,882	9,408
Computer sciences	5,391	6,864	9,516	12,979	15,813	18,320	20,292	15,848	15,861	14,680	14,489	14,012	14,447	13,884	13,694
Agricultural sciences	3,259	3,200	3,583	4,016	5,074	5,024	4,988	4,253	4,455	4,349	4,154	4,437	4,529	4,759	4,756
Social/ behavioral sciences	5,489	5,762	6,277	6,492	7,002	7,760	7,971	7,005	6,938	7,320	7,322	7,722	7,607	7,557	7,538
Engineering	19,565	26,587	35,446	41,947	44,111	46,870	48,133	56,075	55,790	52,680	52,465	52,079	51,889	48,515	47,998
Turkey															
All fields	118,882	142,275	168,923	180,513	145,884	150,421	203,108	223,559	245,140	261,582	289,013	284,459	340,396	NA	399,049
S&E fields	51,875	36,517	37,290	36,677	57,428	59,206	75,109	82,341	95,449	103,285	108,861	84,061	99,415	NA	128,672
Physical and biological sciences and mathematics and statistics	12,247	13,797	13,683	13,298	13,152	13,411	14,492	16,877	19,094	20,138	18,035	22,568	26,876	NA	28,154
Computer sciences	773	987	1,281	1,402	1,727	1,970	1,958	2,201	2,468	2,972	3,057	3,037	3,379	NA	917
Agricultural sciences	5,759	5,764	6,159	5,496	5,118	5,209	5,472	5,699	6,197	7,199	6,016	5,772	7,014	NA	8,050
Social/ behavioral sciences	17,503	NA	NA	NA	20,430	20,509	34,863	37,680	45,071	48,860	57,485	28,423	34,618	NA	47,834
Engineering	15,593	15,969	16,167	16,481	17,001	18,107	18,324	19,884	22,619	24,116	24,268	24,261	27,528	NA	43,717
United Kingdom															
All fields	269,841	277,678	279,788	287,506	292,092	306,363	315,934	319,260	334,785	333,721	350,179	367,875	389,296	402,682	444,152

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
S&E fields	108,406	119,491	119,843	122,518	122,791	126,100	128,299	126,934	130,922	129,813	135,845	143,176	150,556	160,363	180,340
Physical and biological sciences and mathematics and statistics	37,966	42,743	41,143	42,621	32,966	33,564	34,039	34,764	36,582	37,574	39,140	41,731	44,119	63,771	72,818
Computer sciences	11,390	14,635	16,310	19,250	20,177	20,096	18,839	16,446	14,909	14,033	14,202	14,335	15,089	15,497	17,843
Agricultural sciences	2,942	3,266	3,319	2,804	3,073	2,915	2,821	2,826	3,034	2,994	3,039	3,375	3,474	3,621	4,011
Social/ behavioral sciences	28,500	27,944	28,639	30,112	40,303	43,638	45,743	45,656	47,657	45,788	47,551	50,648	54,343	43,021	48,579
Engineering	27,608	30,902	30,432	27,730	26,271	25,886	26,856	27,242	28,739	29,424	31,914	33,087	33,531	34,453	37,089
United States															
All fields	1,254,618	1,260,308	1,308,970	1,365,694	1,417,421	1,456,401	1,502,922	1,541,704	1,580,413	1,619,028	1,668,227	1,734,229	1,810,647	1,861,034	1,890,941
S&E fields	483,764	487,352	508,262	538,335	555,607	568,431	578,118	586,149	598,470	608,959	630,254	659,840	693,961	719,695	741,763
Physical and biological sciences and mathematics and statistics	105,332	101,055	101,573	103,569	105,431	110,340	117,404	124,561	129,461	133,574	140,275	148,329	160,278	169,810	177,001
Computer sciences	38,874	44,870	51,040	59,978	62,072	57,217	51,085	46,333	43,749	43,732	45,021	48,599	53,081	56,726	61,285
Agricultural sciences	16,534	16,146	16,095	15,902	15,569	15,915	15,682	15,755	16,119	16,615	16,618	17,143	17,701	18,512	19,621
Social/ behavioral sciences	239,964	242,605	254,769	271,181	284,130	294,648	301,572	306,462	314,290	318,988	328,064	341,473	353,099	360,441	364,358
Engineering	83,060	82,676	84,785	87,705	88,405	90,311	92,375	93,038	94,851	96,050	100,276	104,296	109,802	114,206	119,498

NA = not available.

[a] China data include computer sciences under engineering.

[b] Japan data include thesis doctorates, called *ronbun hakase*, earned by employees in industry. In higher education data for Japan, mathematics are included in natural sciences, and computer sciences are included in engineering.

Note(s)

Physical and biological sciences and mathematics and statistics include biological and related sciences, environmental sciences, and physical sciences. Computer sciences include information and communication technologies. Agricultural sciences include agriculture, forestry, fisheries, and veterinary sciences. Social and behavioral sciences include social and behavioral sciences, and journalism and information. Engineering includes engineering and engineering trades, manufacturing and processing, and architecture and construction. To facilitate international comparison, data for the United States reflect the most recent classification in the International Standard Classification of Education Fields of Education and Training (ISCED-F), which varies slightly from the National Science Foundation classification of fields presented in other sections of the chapter. Data for first university degrees use ISCED 2011 level 6 (bachelor's or equivalent first degrees) and level 7 (master's or equivalent long first degrees). S&E data do not include health fields.

Source(s)

United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics database, special tabulations (2016); Organisation for Economic Co-operation and Development (OECD), OECD.Stat, https://stats.oecd.org/; National Bureau of Statistics of China, *China Statistical Yearbook*, annual series (Beijing) (various years); Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education, annual series (various years); Ministry of Education, *Educational Statistics of the Republic of China (Taiwan)*, annual series (various years); National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

Science and Engineering Indicators 2018

APPENDIX TABLE 2-36

First university degrees, by field, sex, and selected region, country, or economy: 2014 or most recent year

(Number)

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Male								
Asia								
Armenia (2015)	7,939	4,032	651	397	372	1,907	705	3,907
China[b]	1,662,286	NA	NA	NA	NA	NA	NA	NA
Georgia	5,563	NA	NA	NA	196	NA	778	NA
India[c]	3,086,332	1,104,457	432,586	96,984	22,432	NA	552,455	1,981,875
Indonesia (2012)	312,426	NA	NA	NA	NA	NA	NA	NA
Japan[d]	310,606	224,917	12,979	NA	9,964	125,739	76,235	85,689
Kyrgyzstan	17,422	5,725	NA	NA	263	NA	5,462	11,697
Malaysia (2015)	35,144	19,254	2,682	1,396	526	5,034	9,616	15,890
Mongolia	10,678	2,824	NA	NA	290	NA	2,534	7,854
Myanmar (2011)	41,546	NA	NA	NA	NA	NA	NA	NA
Philippines (2006)	127,492	NA	NA	NA	NA	NA	NA	NA
Singapore[e]	7,511	4,541	786	708	NA	NA	3,047	2,970
South Korea	166,648	88,783	10,369	8,739	2,558	9,547	57,570	77,865
Taiwan	109,490	61,929	5,917	8,881	2,253	3,010	41,868	47,561

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Middle East								
Iran (2015)	235,731	149,332	8,679	18,923	6,965	7,750	107,015	86,399
Israel	20,601	11,666	1,002	1,321	157	4,560	4,627	8,936
Jordan (2011)	26,073	4,031	233	865	465	810	1,658	22,042
Lebanon (2011)	11,373	NA	NA	NA	NA	NA	NA	NA
Palestine (2015)	11,467	3,880	239	574	148	1,218	1,701	7,587
Qatar	459	131	NA	NA	NA	NA	131	328
Saudi Arabia (2015)	58,446	19,241	4,783	2,399	223	6,497	5,339	39,205
United Arab Emirates (2015)	7,162	2,772	71	478	21	551	1,651	4,390
Africa								
Egypt (2013)	204,285	32,110	NA	NA	5,772	NA	26,338	172,175
Ethiopia (2012)	60,576	29,121	6,165	10,602	2,682	9,479	193	31,455
Ghana (2013)	25,187	3,453	NA	NA	1,246	NA	2,207	21,734
Madagascar	5,203	615	NA	NA	113	NA	502	4,588
Mozambique (2010)	585	100	NA	NA	52	NA	48	485
South Africa	33,097	14,141	3,281	1,634	807	3,528	4,891	18,956
Sudan (2012)	32,281	8,385	877	1,647	1,076	1,247	3,538	23,896
Uganda (2004)	5,532	2,299	299	31	317	1,114	538	3,233

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Europe								
EU								
Austria	14,909	7,601	1,110	1,236	134	1,589	3,533	7,308
Belgium	23,939	10,422	880	1,207	663	1,886	5,786	13,517
Bulgaria	16,725	8,150	247	740	325	2,371	4,467	8,575
Croatia	8,689	4,044	344	569	406	570	2,155	4,645
Cyprus	1,593	633	28	93	5	97	410	960
Czech Republic	22,040	10,588	1,160	2,258	777	1,533	4,860	11,452
Denmark	16,039	6,094	627	1,180	62	1,284	2,941	9,945
Estonia	2,523	1,323	116	279	56	145	727	1,200
Finland	13,739	7,882	337	865	302	505	5,873	5,857
France	141,501	64,723	10,678	10,332	1,425	11,525	30,763	76,778
Germany	183,396	107,498	15,312	13,071	4,747	8,003	66,365	75,899
Greece (2012)	11,907	NA	NA	NA	NA	NA	NA	NA
Hungary	15,598	8,049	705	741	430	1,337	4,836	7,549
Ireland (2012)	11,667	NA	NA	NA	NA	NA	2,551	NA
Italy	90,499	43,670	5,343	1,933	2,412	11,365	22,617	46,829
Latvia	3,120	1,456	106	250	102	281	717	1,664

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Lithuania	9,670	5,328	297	463	278	762	3,528	4,342
Luxembourg	255	111	14	14	0	41	42	144
Malta	975	557	83	190	6	90	188	418
Netherlands	40,210	14,328	1,070	3,221	503	3,376	6,158	25,882
Poland	94,266	45,852	3,104	7,587	1,855	8,173	25,133	48,414
Portugal	23,304	12,354	1,023	524	369	1,982	8,456	10,950
Romania	38,339	20,832	1,262	974	1,329	3,752	13,515	17,507
Slovakia	11,751	5,166	433	917	283	859	2,674	6,585
Slovenia	4,852	2,866	294	474	129	519	1,450	1,986
Spain	97,769	47,710	5,047	5,858	1,915	7,902	26,988	50,059
Sweden (2012)	14,958	NA	NA	NA	NA	NA	NA	NA
United Kingdom	195,994	102,416	34,505	14,925	1,292	21,843	29,851	93,578
Other Europe								
Albania (2015)	7,707	2,824	322	592	560	391	959	4,883
Iceland (2012)	980	NA	NA	NA	NA	NA	NA	NA
Macedonia	4,352	1,628	87	514	149	159	719	2,724
Norway	12,384	4,872	391	981	74	1,098	2,328	7,512
Russia (2012)	550,715	NA	NA	NA	NA	NA	NA	NA

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Switzerland	26,776	11,521	1,126	1,220	560	964	7,651	15,255
Turkey	199,856	68,831	11,579	586	5,155	22,038	29,473	131,025
Ukraine (2015)	54,420	18,906	687	1,120	1,365	2,084	13,650	35,514
America								
North America								
Canada (2013)	77,289	37,019	9,465	3,128	446	11,786	12,194	40,270
Mexico (2013)	208,393	104,700	6,062	7,553	5,711	14,014	71,360	103,693
United States	809,453	370,032	83,431	49,489	9,602	132,396	95,114	439,421
Central America and Caribbean								
Costa Rica (2015)	15,184	4,834	154	1,525	244	768	2,143	10,350
Cuba	24,475	2,925	NA	NA	1,376	NA	1,549	21,550
El Salvador	5,173	1,691	NA	NA	131	NA	1,560	3,482
Guatemala (2007)	2,065	1,082	26	*	245	181	630	983
Honduras (2013)	5,738	1,738	NA	NA	417	NA	1,321	4,000
Panama (2013)	5,216	1,053	NA	NA	59	NA	994	4,163
South America								
Argentina	29,619	4,342	2,422	NA	1,920	NA	NA	25,277
Brazil (2012)	314,140	NA	NA	NA	NA	NA	NA	NA

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Chile	19,509	9,042	112	2,550	289	288	5,803	10,467
Colombia (2015)	70,346	32,631	1,273	5,291	2,057	6,159	17,851	37,715
Uruguay (2010)	2,512	1,130	117	189	206	302	316	1,382
Venezuela (2009)	32,339	NA	NA	NA	NA	NA	NA	NA
Oceania								
Australia	102,660	37,232	7,181	7,594	522	6,492	15,443	65,428
New Zealand	14,082	6,034	1,169	1,436	149	1,270	2,009	8,048
Female								
Asia								
Armenia (2015)	11,763	3,801	1,008	102	299	2,270	122	7,962
China[b]	1,751,501	NA	NA	NA	NA	NA	NA	NA
Georgia	9,953	435	NA	NA	125	NA	310	9,518
India[c]	3,208,575	772,964	416,672	85,277	6,833	NA	264,182	2,435,611
Indonesia (2012)	292,009	NA	NA	NA	NA	NA	NA	NA
Japan[d]	254,967	90,895	4,849	NA	7,362	68,235	10,449	164,072
Kyrgyzstan	22,511	2,430	NA	NA	122	NA	2,308	20,081
Malaysia (2015)	62,911	23,603	4,505	1,762	902	8,655	7,779	39,308
Mongolia	18,799	2,054	NA	NA	494	NA	1,560	16,745

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Myanmar (2011)	76,520	NA	NA	NA	NA	NA	NA	NA
Philippines (2006)	207,379	NA	NA	NA	NA	NA	NA	NA
Singapore[e]	7,530	2,566	1,103	289	NA	NA	1,174	4,964
South Korea	162,796	45,978	9,855	2,845	1,915	11,049	20,314	116,818
Taiwan	119,272	21,465	3,491	4,813	2,503	4,528	6,130	97,807
Middle East								
Iran (2015)	214,422	96,121	21,342	16,756	8,123	16,196	33,704	118,301
Israel	30,260	12,121	1,017	562	141	8,614	1,787	18,140
Jordan (2011)	29,205	5,607	719	1,985	1,335	1,281	287	23,598
Lebanon (2011)	14,553	NA	NA	NA	NA	NA	NA	NA
Palestine (2015)	18,438	4,366	901	613	97	1,790	965	14,072
Qatar	1,203	137	NA	NA	NA	NA	137	1,066
Saudi Arabia (2015)	75,387	22,148	10,481	3,264	97	7,698	608	53,239
United Arab Emirates (2015)	9,772	3,363	202	590	21	1,550	1,000	6,409
Africa								
Egypt (2013)	209,210	13,838	NA	NA	4,228	NA	9,610	195,372
Ethiopia (2012)	19,101	6,642	936	2,579	545	2,566	16	12,459
Ghana (2013)	19,059	989	NA	NA	259	NA	730	18,070

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Madagascar	4,723	257	NA	NA	104	NA	153	4,466
Mozambique (2010)	437	29	NA	NA	15	NA	14	408
South Africa	52,106	18,067	4,319	1,036	869	9,628	2,215	34,039
Sudan (2012)	39,149	9,008	1,399	1,884	2,192	1,616	1,917	30,141
Uganda (2004)	4,089	1,269	109	15	48	882	215	2,820
Europe								
EU								
Austria	22,344	6,684	1,302	231	242	3,462	1,449	15,660
Belgium	37,417	7,687	676	73	873	4,486	1,579	29,730
Bulgaria	23,297	7,713	465	406	329	4,097	2,416	15,584
Croatia	12,972	2,856	546	134	476	846	854	10,116
Cyprus	2,084	599	118	54	24	215	188	1,485
Czech Republic	37,695	9,367	2,505	458	1,041	3,197	2,166	28,328
Denmark	25,195	4,322	729	357	347	1,747	1,142	20,873
Estonia	4,875	1,127	193	92	74	391	377	3,748
Finland	21,322	3,797	449	286	412	1,166	1,484	17,525
France	186,322	50,316	10,798	1,791	2,329	21,671	13,727	136,006
Germany	191,508	49,103	14,347	2,624	2,693	14,753	14,685	142,405

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Greece (2012)	20,902	NA	NA	NA	NA	NA	NA	NA
Hungary	23,980	6,306	874	194	416	2,989	1,833	17,674
Ireland (2012)	15,701	NA	NA	NA	NA	NA	553	NA
Italy	135,100	42,129	7,891	307	2,431	19,266	12,234	92,971
Latvia	5,718	1,338	174	80	58	697	329	4,380
Lithuania	15,674	4,066	476	66	257	2,186	1,081	11,608
Luxembourg	344	88	20	*	*	59	9	256
Malta	1,140	344	80	41	6	156	61	796
Netherlands	53,096	11,203	817	581	559	7,602	1,644	41,893
Poland	162,644	47,047	7,430	1,049	2,182	21,499	14,887	115,597
Portugal	32,120	10,423	1,721	134	683	4,020	3,865	21,697
Romania	52,067	20,045	2,510	481	578	9,294	7,182	32,022
Slovakia	20,603	4,954	925	156	359	2,188	1,326	15,649
Slovenia	7,930	2,404	462	79	148	1,164	552	5,526
Spain	137,903	35,009	6,319	1,099	1,909	13,686	11,996	102,894
Sweden (2012)	28,155	NA	NA	NA	NA	NA	NA	NA
United Kingdom	248,158	77,924	38,313	2,918	2,719	26,736	7,238	170,234
Other Europe								

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Albania	11,609	828	NA	NA	292	NA	536	10,781
Iceland (2012)	1,848	NA	NA	NA	NA	NA	NA	NA
Macedonia	5,511	1,352	165	201	86	388	512	4,159
Norway	20,913	3,481	436	156	124	1,956	809	17,432
Russia (2012)	855,335	NA	NA	NA	NA	NA	NA	NA
Switzerland	25,629	4,401	772	116	210	2,069	1,234	21,228
Turkey	199,193	59,841	16,575	331	2,895	25,796	14,244	139,352
Ukraine (2015)	66,762	13,630	1,636	329	1,308	5,603	4,754	53,132
America								
North America								
Canada (2013)	116,166	39,921	11,560	613	646	23,825	3,277	76,245
Mexico (2013)	242,529	76,055	6,706	5,004	3,184	32,190	28,971	166,474
United States	1,081,488	371,731	93,570	11,796	10,019	231,962	24,384	709,757
Central America and Caribbean								
Costa Rica (2015)	26,362	4,000	181	495	183	2,080	1,061	22,362
Cuba	45,866	1,151	NA	NA	547	NA	604	44,715
El Salvador	7,319	640	NA	NA	60	NA	580	6,679
Guatemala (2007)	1,686	726	92	0	62	350	222	960

Sex and region, country, or economy	All fields	All S&E fields	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	Non-S&E[a]
Honduras (2013)	9,581	955	NA	NA	169	NA	786	8,626
Panama (2013)	9,968	694	NA	NA	43	NA	651	9,274
South America								
Argentina	46,794	3,617	2,264	NA	1,353	NA	NA	43,177
Brazil (2012)	547,238	NA	NA	NA	NA	NA	NA	NA
Chile	17,777	2,946	95	310	149	1,600	793	14,831
Colombia (2015)	94,058	27,054	1,423	1,719	1,347	12,252	10,313	67,004
Uruguay (2010)	4,383	1,247	185	54	120	636	252	3,136
Venezuela (2009)	65,696	NA	NA	NA	NA	NA	NA	NA
Oceania								
Australia	136,563	28,511	7,673	1,922	881	12,416	5,619	108,052
New Zealand	20,910	5,273	1,473	366	195	2,434	805	15,637

* = nil or negligible; NA = not available.

EU = European Union.

[a] Includes field unknown or unspecified.

[b] China data include computer sciences under engineering.

[c] India data include social sciences in humanities and arts (non-S&E).

[d] In data for Japan, mathematics are included in natural sciences, computer sciences are included in engineering, and business administration is included in social science. Japan data include thesis doctorates, called *ronbun hakase*, earned by employees in industry.

[e] Singapore data include social sciences in humanities (non-S&E).

Note(s)

Physical and biological sciences and mathematics and statistics include biological and related sciences, environmental sciences, and physical sciences. Computer sciences include information and communication technologies. Agricultural sciences include agriculture, forestry, fisheries, and veterinary sciences. Social and behavioral sciences include social and behavioral sciences, and journalism and information. Engineering includes engineering and engineering trades, manufacturing and processing, and architecture and construction. To facilitate international comparison, data for the United States reflect the most recent classification in the International Standard Classification of Education Fields of Education and Training (ISCED-F), which varies slightly from the National Science Foundation classification of fields presented in other sections of the chapter. Data for first university degrees use ISCED 2011 level 6 (bachelor's or equivalent first degrees) and level 7 (master's or equivalent long first degrees). S&E data do not include health fields.

Source(s)

United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics database, special tabulations (2016); Organisation for Economic Co-operation and Development (OECD), OECD.Stat, https://stats.oecd.org/; Government of India, Ministry of Human Resource Development, Department of Higher Education, All India Survey on Higher Education 2014–15 (2016); Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education, special tabulations (2016); Government of Singapore, Ministry of Education, *Education Statistics Digest: 2015*; Ministry of Education, *Educational Statistics of the Republic of China (Taiwan): 2014* (2014); National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

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APPENDIX TABLE 2-37

Earned doctoral degrees, by selected region, country, or economy and field: 2014 or most recent year

(Number)

Region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Asia[a]								
Armenia	247	52	NA	NA	4	NA	48	195
China[b]	53,653	34,103	10,922	NA	2,382	2,262	18,537	19,550
Georgia	450	88	NA	NA	10	NA	78	362
India[c]	21,830	13,144	5,721	321	1,545	2,960	2,597	8,686
Japan[d]	15,045	6,743	1,377	NA	941	887	3,538	8,302
Kyrgyzstan	682	96	NA	NA	10	NA	86	586
Malaysia	2,983	796	NA	NA	51	NA	745	2,187
Mongolia	118	12	NA	NA	10	NA	2	106
Philippines	3,427	286	NA	NA	250	NA	36	3,141
South Korea	12,931	6,032	1,586	157	299	512	3,478	6,899
Taiwan	4,048	2,487	619	57	99	196	1,516	1,561
Tajikistan	382	49	NA	NA	28	NA	21	333
Middle East[a]								
Iran	6,842	1,391	NA	NA	451	NA	940	5,451

Region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Israel	1,546	1,113	698	59	34	183	139	433
Jordan (2015)	693	45	10	*	3	31	1	648
Lebanon (2011)	171	33	*	1	*	28	4	138
Saudi Arabia (2015)	439	82	33	5	3	23	18	357
Africa[a]								
Egypt (2013)	6,877	1,046	NA	NA	673	NA	373	5,831
Madagascar	377	*	NA	NA	NA	NA	NA	377
Mozambique (2013)	15	9	NA	NA	*	NA	9	6
South Africa	2,270	1,175	572	55	79	293	176	1,095
Sudan	1,460	166	NA	NA	48	NA	118	1,294
Tunisia	825	157	NA	NA	7	NA	150	668
Europe[a]								
EU								
Austria	2,207	1,305	416	114	56	209	512	902
Belgium	2,581	1,575	504	64	135	266	606	1,006
Bulgaria	1,363	706	174	33	47	177	275	657
Croatia	855	564	155	29	50	186	144	291

Region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Cyprus	60	37	14	4	*	6	13	23
Czech Republic	2,484	1,551	613	79	150	153	556	933
Denmark	2,126	1,289	373	*	230	213	473	837
Estonia	213	151	71	9	12	23	36	62
Finland	2,013	1,121	306	70	62	224	459	892
France	13,729	10,023	5,731	736	*	1,684	1,872	3,706
Germany	28,147	14,625	7,975	994	834	1,637	3,185	13,522
Greece	1,601	868	218	65	83	151	351	733
Hungary	1,154	659	236	66	67	162	128	495
Ireland	1,738	833	423	106	20	127	157	905
Italy	10,678	6,185	2,571	134	619	808	2,053	4,493
Latvia	264	164	34	12	9	37	72	100
Lithuania	411	262	84	11	23	47	97	149
Luxembourg	82	55	17	16	*	14	8	27
Malta	22	13	4	*	*	*	9	9
Netherlands	4,528	340	NA	NA	340	NA	NA	4,188
Poland	3,376	1,811	734	10	227	279	561	1,565

Region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Portugal	4,008	2,328	717	157	50	535	869	1,680
Romania	3,777	1,982	350	*	231	337	1,064	1,795
Slovakia	2,182	1,068	338	46	68	148	468	1,114
Slovenia	1,003	662	202	36	110	133	181	341
Spain	10,889	6,708	3,396	520	235	1,367	1,190	4,181
Sweden (2013)	3,345	2,055	670	125	68	246	946	1,290
United Kingdom	25,020	14,271	7,198	925	288	2,339	3,521	10,749
Other Europe								
Iceland (2012)	40	19	12	2	*	2	3	21
Macedonia	206	69	11	1	6	13	38	137
Norway	1,442	775	346	74	33	166	156	667
Russia (2013)	36,533	19,340	6,055	3,015	1,223	3,371	5,676	17,193
Serbia	741	192	NA	NA	13	NA	179	549
Switzerland	3,847	2,352	1,051	116	105	317	763	1,495
Turkey	4,516	2,188	844	5	212	388	739	2,328
Ukraine	9,081	2,128	NA	NA	389	NA	1,739	6,953
America[a]								

Region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
North America								
Canada (2013)	7,059	5,188	2,299	283	188	1,027	1,391	1,871
Mexico	5,782	2,365	753	65	148	617	782	3,417
United States	67,591	39,834	16,599	1,941	952	10,012	10,330	27,757
Central America and Caribbean								
Cuba	663	108	NA	NA	39	NA	69	555
South America								
Argentina	2,088	1,021	934	NA	87	NA	NA	1,067
Brazil	16,745	9,124	2,798	224	1,941	1,302	2,859	7,621
Chile	606	408	205	9	46	53	96	198
Colombia	408	131	NA	NA	34	NA	97	277
Oceania[a]								
Australia	8,400	4,865	1,668	311	300	1,088	1,498	3,535
New Zealand	1,414	890	382	70	58	157	224	524

* = nil or negligible; NA = not available.

EU = European Union.

[a] Includes only locations for which relatively recent data are available.

[b] China data include computer sciences under engineering.

[c] India data include social sciences in humanities and arts (non-S&E).

[d] Japan data include thesis doctorates, called *ronbun hakase*, earned by employees in industry. In higher education data for Japan, mathematics are included in natural sciences, and computer sciences are included in engineering.

Note(s)

Physical and biological sciences and mathematics and statistics include biological and related sciences, environmental sciences, and physical sciences. Computer sciences include information and communication technologies. Agricultural sciences include agriculture, forestry, fisheries, and veterinary sciences. Social and behavioral sciences include social and behavioral sciences, and journalism and information. Engineering includes engineering and engineering trades, manufacturing and processing, and architecture and construction. To facilitate international comparison, data for the United States reflect the most recent classification in the International Standard Classification of Education Fields of Education and Training (ISCED-F), which varies slightly from the National Science Foundation classification of fields presented in other sections of the chapter. Data for doctoral degrees use ISCED 2011 level 8. S&E data do not include health fields.

Source(s)

United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics database, special tabulations (2016); National Bureau of Statistics of China, *China Statistical Yearbook* (Beijing) (2015)*;* Government of India, Ministry of Human Resource Development, Department of Higher Education, All India Survey on Higher Education 2014–15 (2016); Japan Student Services Organization, special tabulations (2014); Government of Singapore, Ministry of Education, *Education Statistics Digest: 2015*; Ministry of Education, *Educational Statistics of the Republic of China (Taiwan): 2015* (2015); National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

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APPENDIX TABLE 2-38

S&E doctoral degrees in the United States and selected European countries or economies, by field: 2000–14

(Number)

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Austria	1,790	1,871	2,125	2,197	2,445	2,228	2,158	2,085	2,205	2,284	2,500	2,359	2,412	2,228	2,207
All S&E	987	1,059	1,152	1,108	1,193	1,225	NA	537	1,249	1,322	1,386	1,369	1,417	1,330	1,305
Physical and biological sciences and mathematics and statistics	359	384	431	377	373	418	NA	NA	397	461	463	454	440	493	416
Computer sciences	53	21	67	63	71	74	NA	NA	93	99	129	96	139	111	114
Agricultural sciences	85	92	135	135	97	101	NA	103	115	103	96	93	80	71	56
Social and behavioral sciences	149	162	171	210	250	224	NA	NA	206	230	235	262	271	223	209
Engineering	341	400	348	323	402	408	NA	434	438	429	463	464	487	433	512
Belgium	1,147	1,317	1,413	NA	1,479	1,608	1,718	1,716	1,880	1,902	2,126	2,165	2,368	2,464	2,581
All S&E	808	898	919	NA	NA	NA	1,094	1,044	1,186	951	1,281	1,313	1,431	1,546	1,575
Physical and biological sciences and mathematics and statistics	479	519	468	NA	NA	NA	493	439	651	312	422	438	464	455	504
Computer sciences	*	2	80	NA	NA	NA	66	112	82	11	54	58	55	67	64
Agricultural sciences	66	77	76	NA	NA	NA	89	84	109	109	111	105	115	133	135
Social and behavioral sciences	109	124	120	NA	NA	NA	157	130	153	118	193	205	238	264	266
Engineering	154	176	175	NA	NA	NA	289	279	191	401	501	507	559	627	606
Bulgaria	399	376	385	401	392	528	NA	583	601	636	596	638	979	1,202	1,363
All S&E	164	163	166	232	181	237	NA	273	333	364	314	365	483	567	706

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Physical and biological sciences and mathematics and statistics	86	68	63	89	77	89	NA	86	112	126	84	104	131	140	174
Computer sciences	*	*	*	*	*	*	NA	*	8	5	7	15	24	25	33
Agricultural sciences	22	27	28	28	11	36	NA	37	26	26	20	24	32	37	47
Social and behavioral sciences	12	8	14	61	12	22	NA	19	77	74	66	93	132	135	177
Engineering	44	60	61	54	81	90	NA	131	110	133	137	129	164	230	275
Croatia	338	280	255	314	NA	385	439	466	494	572	838	1,072	1,338	NA	855
All S&E	208	172	154	182	NA	228	240	252	265	314	467	NA	692	NA	564
Physical and biological sciences and mathematics and statistics	71	61	55	68	NA	87	88	115	101	106	170	NA	227	NA	155
Computer sciences	5	1	4	7	NA	8	3	3	6	11	19	NA	12	NA	29
Agricultural sciences	27	22	20	14	NA	35	48	32	38	39	50	NA	103	NA	50
Social and behavioral sciences	43	50	21	37	NA	26	35	27	51	61	93	NA	188	NA	186
Engineering	62	38	54	56	NA	72	66	75	69	97	135	NA	162	NA	144
Cyprus	NA	NA	3	2	13	5	29	16	28	30	30	43	48	52	60
All S&E	NA	NA	1	1	8	NA	18	8	18	24	17	31	34	35	37
Physical and biological sciences and mathematics and statistics	NA	NA	*	*	6	NA	14	6	15	10	6	12	14	13	14
Computer sciences	NA	NA	1	*	*	NA	2	1	*	5	6	8	5	4	4
Agricultural sciences	NA	NA	*	*	*	NA	*	*	*	*	*	*	*	1	*
Social and behavioral sciences	NA	NA	*	1	2	NA	2	1	3	6	2	3	7	4	6
Engineering	NA	NA	*	*	*	NA	*	*	*	3	3	8	8	13	13

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Czech Republic	895	1,066	1,327	1,546	1,732	1,905	2,023	2,272	2,382	2,391	2,228	2,462	2,683	2,433	2,484
All S&E	619	727	883	1,055	1,118	1,212	1,312	1,414	1,576	1,533	1,412	1,564	1,672	1,515	1,551
Physical and biological sciences and mathematics and statistics	216	228	305	372	360	423	433	428	580	573	586	623	621	585	613
Computer sciences	110	121	138	29	50	59	50	62	69	80	75	81	97	101	79
Agricultural sciences	57	67	100	109	112	132	136	170	133	113	131	165	183	150	150
Social and behavioral sciences	51	100	104	129	95	83	126	130	174	151	132	188	187	166	153
Engineering	185	211	236	416	501	515	567	624	620	616	488	507	584	513	556
Denmark	NA	795	732	859	788	955	910	973	1,102	1,188	1,388	1,503	1,552	1,888	2,126
All S&E	NA	530	394	602	620	583	572	570	653	704	802	944	968	1,224	1,289
Physical and biological sciences and mathematics and statistics	NA	190	177	131	100	210	166	150	205	212	261	258	276	335	373
Computer sciences	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Agricultural sciences	NA	58	83	84	89	78	67	84	93	98	74	128	136	210	230
Social and behavioral sciences	NA	75	63	51	55	96	108	95	114	134	134	179	170	197	213
Engineering	NA	207	71	336	376	199	231	241	241	260	333	379	386	482	473
Estonia	117	149	188	226	209	131	143	153	161	160	175	250	190	233	213
All S&E	52	38	53	70	76	79	87	87	110	102	112	167	142	153	151
Physical and biological sciences and mathematics and statistics	31	21	27	31	47	33	42	49	47	48	56	74	62	68	71
Computer sciences	5	1	4	1	3	5	5	6	8	7	12	17	14	13	9
Agricultural sciences	6	2	5	8	5	7	5	5	6	6	6	6	9	8	12

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Social and behavioral sciences	4	5	8	11	4	8	14	8	12	12	11	36	22	23	23
Engineering	6	9	9	19	17	26	21	19	37	29	27	34	35	41	36
Finland	1,797	1,797	1,738	1,759	1,861	NA	1,846	1,925	NA	1,943	1,748	1,850	1,830	1,899	2,013
All S&E	955	969	966	NA	NA	NA	NA	707	NA	1,079	984	1,037	1,006	1,076	1,121
Physical and biological sciences and mathematics and statistics	300	281	294	NA	NA	NA	NA	NA	NA	316	276	295	276	274	306
Computer sciences	45	41	51	NA	NA	NA	NA	NA	NA	52	50	67	48	61	70
Agricultural sciences	51	41	40	NA	NA	NA	NA	42	NA	44	38	58	47	55	62
Social and behavioral sciences	222	221	204	NA	NA	NA	NA	231	NA	235	217	234	220	230	224
Engineering	337	385	377	NA	NA	NA	NA	434	NA	432	403	383	415	456	459
France	9,903	NA	10,404	8,420	9,578	9,818	10,650	11,309	11,941	12,595	NA	NA	13,188	13,419	13,729
All S&E	6,653	NA	6,971	5,651	6,867	26	7,408	7,835	8,356	8,905	NA	NA	9,466	9,731	10,023
Physical and biological sciences and mathematics and statistics	4,281	NA	4,494	3,638	3,984	NA	4,521	4,765	4,988	5,215	NA	NA	5,488	5,805	5,731
Computer sciences	478	NA	494	404	449	NA	610	605	642	686	NA	NA	697	698	736
Agricultural sciences	22	NA	23	18	35	26	13	18	13	13	NA	NA	*	*	*
Social and behavioral sciences	939	NA	989	800	1,140	NA	1,086	1,173	1,334	1,315	NA	NA	1,453	1,433	1,684
Engineering	933	NA	971	791	1,259	NA	1,178	1,274	1,379	1,676	NA	NA	1,828	1,795	1,872
Germany	25,780	24,796	23,838	23,043	23,138	25,952	24,946	24,439	25,190	25,084	25,629	26,981	26,807	27,707	28,147
All S&E	11,927	11,292	10,661	10,376	10,146	11,651	10,928	11,146	11,930	11,755	12,632	13,338	13,700	14,646	14,625
Physical and biological sciences and mathematics and statistics	6,937	6,361	5,863	5,701	5,536	6,171	5,789	5,938	6,255	6,328	6,816	7,127	7,385	8,153	7,975

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Computer sciences	441	470	417	387	489	520	566	593	699	738	838	906	886	941	994
Agricultural sciences	917	883	878	895	929	1,106	934	923	878	856	880	902	925	803	834
Social and behavioral sciences	1,151	1,224	1,089	1,144	1,046	1,448	1,395	1,393	1,514	1,475	1,528	1,562	1,658	1,689	1,637
Engineering	2,481	2,354	2,414	2,249	2,146	2,406	2,244	2,299	2,584	2,358	2,570	2,841	2,846	3,060	3,185
Greece	NA	875	1,154	NA	1,295	1,248	1,556	2,436	1,406	NA	1,892	1,696	1,734	1,527	1,601
All S&E	NA	NA	NA	NA	927	926	NA	667	705	NA	1,070	900	745	834	868
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	595	492	NA	267	213	NA	278	244	221	221	218
Computer sciences	NA	NA	NA	NA	116	27	NA	20	74	NA	133	85	70	95	65
Agricultural sciences	NA	NA	NA	NA	39	89	NA	63	93	NA	159	80	79	88	83
Social and behavioral sciences	NA	NA	NA	NA	51	59	NA	85	86	NA	139	137	95	149	151
Engineering	NA	NA	NA	NA	126	259	NA	232	239	NA	361	354	280	281	351
Hungary	717	793	983	1,067	893	1,069	1,012	1,059	1,141	1,376	1,275	1,234	1,242	1,069	1,154
All S&E	429	313	380	582	349	348	401	NA	420	603	643	533	569	604	659
Physical and biological sciences and mathematics and statistics	190	137	151	198	162	149	170	NA	188	260	345	254	257	249	236
Computer sciences	4	5	14	10	9	8	11	NA	39	25	51	31	36	52	66
Agricultural sciences	41	55	61	100	66	66	76	NA	73	91	84	83	97	57	67
Social and behavioral sciences	83	66	70	82	76	79	92	NA	90	97	63	93	80	150	162
Engineering	111	50	84	192	36	46	52	NA	30	130	100	72	99	96	128
Ireland	501	572	520	668	683	810	979	1,035	1,090	1,211	1,222	NA	1,447	1,532	1,738

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
All S&E	328	416	354	441	423	192	23	23	30	771	714	NA	846	849	833
Physical and biological sciences and mathematics and statistics	221	274	229	290	237	NA	NA	NA	NA	381	323	NA	384	385	423
Computer sciences	12	19	15	14	28	NA	NA	NA	NA	86	71	NA	128	76	106
Agricultural sciences	17	19	12	19	21	23	23	23	30	23	37	NA	15	40	20
Social and behavioral sciences	29	41	26	41	29	54	NA	NA	NA	93	86	NA	111	130	127
Engineering	49	63	72	77	108	115	NA	NA	NA	188	197	NA	208	218	157
Italy	4,044	3,977	4,456	6,351	8,346	8,466	10,188	10,188	12,591	NA	NA	11,270	11,458	10,687	10,678
All S&E	2,100	1,958	2,760	3,942	NA	5,075	6,107	6,156	NA	NA	NA	6,409	6,294	6,131	6,185
Physical and biological sciences and mathematics and statistics	821	818	1,274	1,867	NA	2,271	2,531	2,484	NA	NA	NA	2,531	2,569	2,502	2,571
Computer sciences	*	*	33	64	NA	66	149	117	NA	NA	NA	140	124	135	134
Agricultural sciences	350	342	306	384	NA	496	669	645	NA	NA	NA	684	688	650	619
Social and behavioral sciences	121	60	294	450	NA	703	799	914	NA	NA	NA	971	877	810	808
Engineering	808	738	853	1,177	NA	1,539	1,959	1,996	NA	NA	NA	2,083	2,036	2,034	2,053
Latvia	40	37	52	64	84	114	106	146	139	174	132	297	267	315	264
All S&E	27	29	29	34	48	76	53	71	72	105	78	157	158	173	164
Physical and biological sciences and mathematics and statistics	4	16	7	4	10	19	9	23	18	36	16	56	38	51	34
Computer sciences	6	2	*	3	5	1	5	9	8	10	4	10	15	17	12
Agricultural sciences	*	2	4	1	6	7	2	5	4	5	10	12	5	10	9
Social and behavioral sciences	1	2	7	10	14	10	14	5	12	19	18	27	40	30	37

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Engineering	16	7	11	16	13	39	23	29	30	35	30	52	60	65	72
Lithuania	442	261	387	252	301	321	326	367	369	397	406	353	398	441	411
All S&E	259	155	180	113	177	169	210	237	233	228	254	219	266	281	262
Physical and biological sciences and mathematics and statistics	58	40	51	34	68	41	81	71	75	60	75	63	72	64	84
Computer sciences	6	2	6	2	2	9	5	16	5	5	11	11	4	13	11
Agricultural sciences	13	4	11	2	11	21	12	19	32	22	16	31	29	21	23
Social and behavioral sciences	85	49	54	34	34	42	49	59	50	56	71	53	71	62	47
Engineering	97	60	58	41	62	56	63	72	71	85	81	61	90	121	97
Luxembourg	NA	NA	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	57	64	82
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41	45	55
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	12	17
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	13	16
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	*	*
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	11	14
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	9	8
Malta	6	6	11	8	5	5	4	9	11	19	12	19	13	24	22
All S&E	2	2	2	0	2	0	2	4	5	3	6	7	NA	12	13
Physical and biological sciences and mathematics and statistics	2	*	*	*	*	*	1	1	4	1	4	3	NA	2	4
Computer sciences	*	*	*	*	*	*	*	*	*	*	*	1	NA	1	*

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Agricultural sciences	*	1	1	*	2	*	*	*	*	*	*	*	NA	*	*
Social and behavioral sciences	*	*	*	*	*	*	*	1	*	*	1	*	NA	3	*
Engineering	*	1	1	*	*	*	1	2	1	2	1	3	NA	6	9
Netherlands	2,489	2,533	2,556	2,584	2,679	2,879	2,993	3,160	3,214	3,301	3,736	3,715	4,040	4,321	4,528
All S&E	1,478	1,524	1,523	1,019	1,552	1,286	785	815	852	823	237	949	1,232	280	340
Physical and biological sciences and mathematics and statistics	446	530	489	NA	499	508	NA	NA	NA	NA	NA	NA	NA	NA	NA
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	209	229	264	219	259	221	250	266	289	222	237	230	213	280	340
Social and behavioral sciences	427	375	326	347	311	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Engineering	396	390	444	453	483	557	535	549	563	601	NA	719	1,019	NA	NA
Poland	NA	4,400	4,400	5,450	5,460	5,722	5,917	6,072	5,616	5,068	3,317	3,055	3,590	3,719	3,376
All S&E	NA	NA	NA	NA	NA	541	581	457	397	293	NA	NA	NA	NA	1,811
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	734
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10
Agricultural sciences	NA	NA	NA	NA	NA	541	581	457	397	293	NA	NA	NA	NA	227
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	279
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	561
Portugal	1,586	NA	2,991	3,723	3,963	4,150	5,342	6,038	4,863	4,376	2,927	2,314	2,909	4,155	4,008
All S&E	955	NA	1,678	1,998	2,431	2,659	3,287	3,518	3,419	2,702	1,443	1,332	1,777	2,491	2,328

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Physical and biological sciences and mathematics and statistics	284	NA	477	570	822	919	1,192	1,305	1,093	791	404	415	658	820	717
Computer sciences	51	NA	45	75	211	239	321	283	342	253	45	34	69	111	157
Agricultural sciences	38	NA	71	79	68	71	102	86	85	54	45	36	31	49	50
Social and behavioral sciences	244	NA	505	629	636	703	824	961	859	815	396	313	403	593	535
Engineering	338	NA	580	645	694	727	848	883	1,040	789	553	534	616	918	869
Romania	NA	NA	NA	2,580	2,680	3,871	3,180	2,983	3,271	4,618	4,764	5,615	5,158	5,370	3,777
All S&E	NA	NA	NA	NA	1,223	710	1,649	1,076	1,887	2,272	2,783	3,195	1,887	2,756	1,982
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	151	214	281	284	462	241	420	521	NA	517	350
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	NA	NA	NA	NA	1	122	800	178	310	353	586	304	501	390	231
Social and behavioral sciences	NA	NA	NA	NA	381	44	128	120	664	137	745	188	NA	431	337
Engineering	NA	NA	NA	NA	690	330	440	494	451	1,541	1,032	2,182	1,386	1,418	1,064
Slovakia	446	532	734	2,126	854	1,022	1,218	1,371	1,655	1,937	2,878	1,672	2,181	2,119	2,182
All S&E	228	312	390	635	438	537	547	688	776	899	1,386	814	1,115	1,087	1,068
Physical and biological sciences and mathematics and statistics	70	110	130	318	167	196	194	247	208	261	408	192	257	303	338
Computer sciences	7	1	6	10	10	14	18	22	26	32	61	45	32	40	46
Agricultural sciences	37	39	52	56	42	50	47	76	74	83	131	70	81	56	68
Social and behavioral sciences	14	31	33	101	64	67	67	81	112	113	210	97	179	149	148
Engineering	100	131	169	150	155	210	221	262	356	410	576	410	566	539	468

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Slovenia	NA	298	318	367	355	369	395	415	405	466	465	523	569	1,165	1,003
All S&E	NA	182	208	227	238	236	240	265	276	301	316	310	416	741	662
Physical and biological sciences and mathematics and statistics	NA	62	77	74	85	74	78	99	108	113	139	83	112	218	202
Computer sciences	NA	14	10	13	8	18	12	19	5	15	16	23	42	44	36
Agricultural sciences	NA	13	10	22	8	11	14	17	23	14	17	22	56	110	110
Social and behavioral sciences	NA	36	28	27	47	41	46	50	47	43	36	54	103	141	133
Engineering	NA	57	83	91	90	92	90	80	93	116	108	128	103	228	181
Spain	6,007	6,453	6,905	7,479	8,168	6,902	7,159	7,150	7,302	7,915	8,696	8,747	9,483	10,504	10,889
All S&E	2,945	3,138	3,398	3,756	3,990	3,587	3,717	3,872	3,917	4,272	4,932	5,576	5,812	6,474	6,708
Physical and biological sciences and mathematics and statistics	1,629	1,699	1,875	1,929	2,032	1,795	2,029	1,984	1,981	2,157	2,100	3,211	3,053	3,374	3,396
Computer sciences	132	143	194	202	217	167	174	190	192	245	305	507	422	439	520
Agricultural sciences	255	213	253	325	322	273	253	233	275	249	292	218	298	297	235
Social and behavioral sciences	513	531	597	740	791	690	697	765	722	738	938	1,032	1,237	1,439	1,367
Engineering	416	552	479	560	628	662	564	700	747	883	1,297	608	802	925	1,190
Sweden	3,049	3,388	3,517	3,558	3,836	2,778	3,781	3,904	3,625	3,564	3,371	3,356	3,343	3,345	NA
All S&E	1,883	2,001	2,124	2,197	2,415	1,489	2,355	2,303	2,175	2,033	1,955	1,998	2,014	2,055	NA
Physical and biological sciences and mathematics and statistics	625	695	725	759	822	521	709	776	704	701	673	678	726	670	NA
Computer sciences	64	51	75	111	122	61	146	146	138	130	106	139	141	125	NA
Agricultural sciences	96	93	106	71	72	64	79	84	63	65	59	60	58	68	NA

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Social and behavioral sciences	253	244	287	294	296	211	278	282	304	254	272	272	220	246	NA
Engineering	845	918	931	962	1,103	632	1,143	1,015	966	883	845	849	869	946	NA
Switzerland	2,733	2,745	2,800	2,742	2,952	3,304	3,381	3,428	3,426	3,641	3,800	3,709	NA	3,631	3,847
All S&E	1,280	1,305	1,332	1,210	1,330	1,541	1,704	1,714	1,631	1,741	1,752	1,804	NA	1,801	2,035
Physical and biological sciences and mathematics and statistics	804	743	770	698	743	897	1,004	984	912	950	922	978	NA	987	1,051
Computer sciences	47	52	54	53	48	82	79	81	65	77	103	96	NA	81	116
Agricultural sciences	114	118	135	127	159	151	164	139	153	147	170	128	NA	106	105
Social and behavioral sciences	74	75	103	121	154	189	208	215	234	252	275	321	NA	294	317
Engineering	315	392	373	332	380	411	457	510	501	567	557	602	NA	627	763
United Kingdom	11,566	14,145	14,232	14,936	15,257	15,778	16,465	17,545	16,606	17,651	18,756	20,076	20,438	25,896	25,020
All S&E	7,480	8,885	8,732	8,980	9,274	9,582	9,919	10,529	9,679	10,437	11,322	11,859	12,103	14,732	14,271
Physical and biological sciences and mathematics and statistics	3,952	4,812	4,827	4,875	4,376	4,450	4,426	4,609	4,203	4,390	4,696	4,965	4,874	7,454	7,198
Computer sciences	312	389	376	377	468	545	711	720	706	797	843	871	902	1,038	925
Agricultural sciences	349	341	339	301	318	310	309	252	194	224	215	218	232	305	288
Social and behavioral sciences	1,020	1,144	1,159	1,179	1,886	2,022	2,074	2,301	2,212	2,395	2,787	2,954	3,091	2,349	2,339
Engineering	1,847	2,199	2,031	2,248	2,226	2,255	2,399	2,647	2,364	2,631	2,780	2,851	3,004	3,586	3,521
United States	44,947	45,068	44,311	46,177	48,560	52,855	56,309	60,887	61,716	61,730	57,405	59,847	62,071	64,887	67,591
All S&E	26,062	26,118	25,086	26,278	27,346	29,353	31,201	33,386	34,338	34,194	33,703	35,194	36,397	37,977	39,834
Physical and biological sciences and mathematics and statistics	10,249	9,903	9,559	10,563	10,881	11,730	12,509	13,564	14,221	14,755	14,752	15,054	15,499	15,871	16,599

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Computer sciences	787	770	759	820	918	1,124	1,419	1,598	1,703	1,576	1,564	1,565	1,699	1,812	1,941
Agricultural sciences	999	942	973	947	921	893	869	944	897	968	824	884	937	992	952
Social and behavioral sciences	8,531	8,801	8,431	8,541	8,591	8,959	8,877	9,168	9,332	8,870	8,611	9,066	9,187	9,632	10,012
Engineering	5,496	5,702	5,364	5,407	6,035	6,647	7,527	8,112	8,185	8,025	7,952	8,625	9,075	9,670	10,330

* = nil or negligible; NA = not available.

Note(s)

Physical and biological sciences and mathematics and statistics include biological and related sciences, environmental sciences, and physical sciences. Computer sciences include information and communication technologies. Agricultural sciences include agriculture, forestry, fisheries, and veterinary sciences. Social and behavioral sciences include social and behavioral sciences, and journalism and information. Engineering includes engineering and engineering trades, manufacturing and processing, and architecture and construction. To facilitate international comparison, data for the United States reflect the most recent classification in the International Standard Classification of Education Fields of Education and Training (ISCED-F), which varies slightly from the National Science Foundation classification of fields presented in other sections of the chapter. Data for doctoral degrees use ISCED 2011 level 8. S&E data do not include health fields.

Source(s)

United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics database, special tabulations (2016); National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

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APPENDIX TABLE 2-39

S&E doctoral degrees, by selected Asian country or economy and field: 2000–14

(Number)

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
China[a]	11,383	12,465	14,638	18,806	23,446	27,677	36,247	41,464	43,759	48,658	48,987	50,289	51,713	53,139	53,653
All S&E	7,766	8,153	9,523	12,238	14,858	17,595	22,953	26,582	28,439	31,423	31,410	32,208	32,331	33,490	34,103
Physical and biological sciences and mathematics and statistics	2,306	2,655	2,808	3,705	4,518	5,458	7,241	8,051	8,953	9,570	9,638	9,881	9,762	10,396	10,922
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	462	536	626	756	977	1,093	1,544	1,903	1,936	2,006	1,973	2,241	2,365	2,435	2,382
Social and behavioral sciences	514	621	837	1,204	1,309	1,617	2,038	2,149	2,274	2,461	2,371	2,383	2,314	2,328	2,262
Engineering	4,484	4,341	5,252	6,573	8,054	9,427	12,130	14,479	15,276	17,386	17,428	17,703	17,890	18,331	18,537
India	11,296	11,544	11,974	13,733	17,853	17,898	18,730	NA	NA	NA	NA	21,544	23,630	NA	21,830
All S&E	5,541	5,504	5,637	6,471	7,636	7,537	7,982	NA	NA	NA	NA	13,782	14,658	NA	13,144
Physical and biological sciences and mathematics and statistics	3,885	3,727	3,955	4,497	5,612	5,549	5,625	NA	NA	NA	NA	5,442	4,381	NA	5,721
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	291	NA	321
Agricultural sciences	933	999	948	1,195	1,142	1,020	1,299	NA	NA	NA	NA	1,804	3,203	NA	1,545
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,215	4,597	NA	2,960
Engineering	723	778	734	779	882	968	1,058	NA	NA	NA	NA	2,081	2,186	NA	2,597
Japan[b]	15,357	16,078	16,183	16,314	16,909	16,851	17,396	17,291	16,735	15,872	16,760	15,911	15,902	15,427	15,045
All S&E	7,089	7,401	7,461	7,581	7,912	7,658	8,122	8,017	7,761	7,396	7,470	7,100	7,100	6,791	6,743

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Physical and biological sciences and mathematics and statistics	1,579	1,586	1,602	1,651	1,679	1,543	1,633	1,686	1,525	1,480	1,534	1,436	1,394	1,423	1,377
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	1,147	1,241	1,248	1,258	1,348	1,257	1,321	1,233	1,222	1,170	1,233	1,046	1,059	1,062	941
Social and behavioral sciences	563	610	656	751	808	943	973	1,025	1,060	988	1,010	1,019	1,011	850	887
Engineering	3,800	3,964	3,955	3,921	4,077	3,915	4,195	4,073	3,954	3,758	3,693	3,599	3,636	3,456	3,538
South Korea	6,143	6,208	6,690	7,172	7,946	8,449	8,657	9,082	9,369	10,542	NA	11,645	12,243	12,625	12,931
All S&E	2,918	3,016	3,294	3,412	3,785	3,923	4,101	3,963	4,043	4,549	NA	5,558	5,782	5,933	6,032
Physical and biological sciences and mathematics and statistics	692	687	692	841	932	854	928	835	889	1,011	NA	1,372	1,488	1,476	1,586
Computer sciences	169	176	156	92	88	31	62	37	65	84	NA	98	141	167	157
Agricultural sciences	276	292	317	219	246	284	299	277	279	303	NA	308	317	314	299
Social and behavioral sciences	123	220	230	260	323	330	387	398	392	458	NA	488	527	536	512
Engineering	1,658	1,641	1,899	2,000	2,196	2,424	2,425	2,416	2,418	2,693	NA	3,292	3,309	3,440	3,478
Taiwan	1,455	1,463	1,501	1,759	1,964	2,165	2,614	2,850	3,140	3,589	3,705	3,846	3,861	4,241	4,048
All S&E	970	970	966	1,167	1,291	1,385	1,643	1,905	2,005	2,295	2,509	2,472	2,478	2,678	2,487
Physical and biological sciences and mathematics and statistics	233	232	255	298	318	398	455	413	469	522	567	568	596	684	619
Computer sciences	16	19	18	31	24	38	46	45	52	62	74	76	74	79	57
Agricultural sciences	87	90	93	93	116	83	92	72	77	104	95	79	94	98	99
Social and behavioral sciences	108	108	72	89	111	108	111	157	165	172	165	148	171	180	196
Engineering	526	521	528	656	722	758	939	1,219	1,242	1,435	1,608	1,601	1,543	1,637	1,516

NA = not available.

[a] China data include computer sciences under engineering.

[b] Japan data include thesis doctorates, called *ronbun hakase*, earned by employees in industry. In higher education data for Japan, mathematics are included in natural sciences, and computer sciences are included in engineering.

Note(s)

Data for doctoral degrees use International Standard Classification of Education (ISCED 2011) level 8. S&E data do not include health fields.

Source(s)

National Research Center for Science and Technology for Development, and National Bureau of Statistics of China, *China Statistical Yearbook* (Beijing) (various years); Department of Science and Technology (various years); Japan Student Services Organization (various years); United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics database, special tabulations (2016); Ministry of Education, *Educational Statistics of the Republic of China (Taiwan)* (annual series).

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APPENDIX TABLE 2-40

Earned S&E doctoral degrees, by sex, selected region, country, or economy, and field: 2014 or most recent year

(Number)

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Male								
Asia								
Armenia	173	44	NA	NA	4	NA	40	129
Georgia	185	52	NA	NA	7	NA	45	133
India[a]	13,252	8,283	3,513	138	994	1,700	1,938	4,969
Kyrgyzstan	367	73	NA	NA	5	NA	68	294
Malaysia	1,763	555	NA	NA	33	NA	522	1,208
Mongolia	52	5	NA	NA	3	NA	2	47
Philippines	1,382	147	NA	NA	128	NA	19	1,235
South Korea	8,398	4,673	1,075	144	216	291	2,947	3,725
Taiwan	2,870	2,039	463	46	60	117	1,353	831
Tajikistan	244	NA	NA	NA	NA	NA	NA	NA
Middle East								
Iran	4,230	1,041	NA	NA	304	NA	737	3,189
Israel	777	598	362	53	19	61	103	179

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Jordan (2015)	489	32	7	*	3	21	1	457
Lebanon (2011)	110	25	*	*	*	22	3	85
Saudi Arabia (2015)	311	54	15	1	3	18	17	257
Africa								
Egypt (2013)	3,861	642	NA	NA	376	NA	266	3,219
Madagascar	206	NA	NA	NA	NA	NA	NA	NA
Mozambique (2013)	13	9	NA	NA	*	NA	9	4
South Africa	1,331	724	345	40	47	144	148	607
Sudan	989	125	NA	NA	27	NA	98	864
Tunisia	357	80	NA	NA	3	NA	77	277
Europe								
EU								
Austria	1,283	856	251	102	25	98	381	428
Belgium	1,444	987	297	57	73	122	438	457
Bulgaria	644	346	74	21	27	71	153	298
Croatia	405	265	59	19	21	52	114	140
Cyprus	27	19	5	3	*	1	10	8

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Czech Republic	1,422	963	329	71	72	77	414	459
Denmark	1,124	764	238	*	90	111	325	360
Estonia	100	82	39	9	4	9	21	18
Finland	952	629	151	55	23	69	331	323
France	7,553	5,939	3,315	551	*	812	1,261	1,614
Germany	15,349	9,123	4,660	846	288	759	2,570	6,226
Greece	817	470	102	52	43	60	213	347
Hungary	601	376	124	58	34	70	90	225
Ireland	876	453	208	85	9	42	109	423
Italy	5,090	3,343	1,266	102	286	357	1,332	1,747
Latvia	105	74	19	7	3	10	35	31
Lithuania	168	125	35	6	5	13	66	43
Luxembourg	51	38	12	15	*	3	8	13
Malta	16	9	3	*	*	*	6	7
Netherlands	2,386	169	NA	NA	169	NA	NA	2,217
Poland	1,578	889	339	10	67	113	360	689
Portugal	1,891	1,195	283	113	29	218	552	696

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Romania	1,845	1,079	172	*	112	157	638	766
Slovakia	1,100	585	122	35	42	58	328	515
Slovenia	441	310	81	27	42	31	129	131
Spain	5,528	3,603	1,660	395	126	642	780	1,925
Sweden (2013)	1,803	1,309	398	95	27	120	669	494
United Kingdom	13,263	8,335	3,743	708	125	1,166	2,593	4,928
Other Europe								
Iceland (2012)	19	12	7	2	*	1	2	7
Macedonia	100	41	4	1	2	8	26	59
Norway	730	466	203	58	16	73	116	264
Russia (2012)	19,428	NA	NA	NA	NA	NA	NA	NA
Serbia	385	124	NA	NA	4	NA	120	261
Switzerland	2,183	1,430	625	96	31	132	546	753
Turkey	2,361	1,189	404	3	111	206	465	1,172
Ukraine	3,954	1,301	NA	NA	192	NA	1,109	2,653
America								
North America								

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Canada (2013)	3,873	3,113	1,339	215	104	368	1,086	760
Mexico	3,024	1,337	433	52	81	272	499	1,687
United States	33,760	23,093	9,409	1,536	504	3,708	7,936	10,667
Central America and Caribbean								
Cuba	398	64	NA	NA	23	NA	41	334
South America								
Argentina	915	404	375	NA	29	NA	NA	511
Brazil	7,641	4,626	1,385	168	978	573	1,522	3,015
Chile	330	241	123	7	19	28	65	89
Colombia	249	83	NA	NA	19	NA	64	166
Oceania								
Australia	4,195	2,642	853	212	135	393	1,049	1,553
New Zealand	701	493	200	51	30	55	157	208
Female								
Asia								
Armenia	74	8	NA	NA	*	NA	8	66
Georgia	265	36	NA	NA	3	NA	33	229

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
India[a]	8,578	4,861	2,208	183	551	1,260	659	3,717
Kyrgyzstan	315	23	NA	NA	5	NA	18	292
Malaysia	1,220	241	NA	NA	18	NA	223	979
Mongolia	66	7	NA	NA	7	NA	*	59
Philippines	2,045	139	NA	NA	122	NA	17	1,906
South Korea	4,533	1,359	511	13	83	221	531	3,174
Taiwan	1,178	448	156	11	39	79	163	730
Tajikistan	138	NA	NA	NA	NA	NA	NA	NA
Middle East								
Iran	2,612	350	NA	NA	147	NA	203	2,262
Israel	769	515	336	6	15	122	36	254
Jordan (2015)	204	13	3	*	*	10	*	191
Lebanon (2011)	61	8	*	1	*	6	1	53
Saudi Arabia (2015)	128	28	18	4	*	5	1	100
Africa								
Egypt (2013)	3,016	404	NA	NA	297	NA	107	2,612
Madagascar	171	NA	NA	NA	NA	NA	NA	NA

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Mozambique (2013)	2	NA	NA	NA	NA	NA	NA	NA
South Africa	939	451	227	15	32	149	28	488
Sudan	471	41	NA	NA	21	NA	20	430
Tunisia	468	77	NA	NA	4	NA	73	391
Europe								
EU								
Austria	924	450	165	12	31	111	131	474
Belgium	1,137	588	207	7	62	144	168	549
Bulgaria	719	360	100	12	20	106	122	359
Croatia	450	299	96	10	29	134	30	151
Cyprus	33	18	9	1	*	5	3	15
Czech Republic	1,062	588	284	8	78	76	142	474
Denmark	1,002	525	135	*	140	102	148	477
Estonia	113	69	32	*	8	14	15	44
Finland	1,061	492	155	15	39	155	128	569
France	6,176	4,084	2,416	185	*	872	611	2,092
Germany	12,798	5,502	3,315	148	546	878	615	7,296

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Greece	784	398	116	13	40	91	138	386
Hungary	553	283	112	8	33	92	38	270
Ireland	862	380	215	21	11	85	48	482
Italy	5,588	2,842	1,305	32	333	451	721	2,746
Latvia	159	90	15	5	6	27	37	69
Lithuania	243	137	49	5	18	34	31	106
Luxembourg	31	17	5	1	*	11	*	14
Malta	6	4	1	*	*	*	3	2
Netherlands	2,142	171	NA	NA	171	NA	NA	1,971
Poland	1,798	922	395	*	160	166	201	876
Portugal	2,117	1,133	434	44	21	317	317	984
Romania	1,932	903	178	*	119	180	426	1,029
Slovakia	1,082	483	216	11	26	90	140	599
Slovenia	562	352	121	9	68	102	52	210
Spain	5,361	3,105	1,736	125	109	725	410	2,256
Sweden (2013)	1,542	746	272	30	41	126	277	796
United Kingdom	11,757	5,936	3,455	217	163	1,173	928	5,821

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Other Europe								
Iceland (2012)	21	7	5	*	*	1	1	14
Macedonia	106	28	7	*	4	5	12	78
Norway	712	309	143	16	17	93	40	403
Russia (2012)	14,975	NA	NA	NA	NA	NA	NA	NA
Serbia	356	68	NA	NA	9	NA	59	288
Switzerland	1,664	922	426	20	74	185	217	742
Turkey	2,155	999	440	2	101	182	274	1,156
Ukraine	5,127	827	NA	NA	197	NA	630	4,300
America								
North America								
Canada (2013)	3,186	2,075	960	68	84	659	305	1,111
Mexico	2,758	1,028	320	13	67	345	283	1,730
United States	33,831	16,741	7,190	405	448	6,304	2,394	17,090
Central America and Caribbean								
Cuba	265	44	NA	NA	16	NA	28	221
South America								

Sex and region, country, or economy	All fields	S&E field						Non-S&E
		All S&E	Physical and biological sciences and mathematics and statistics	Computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering	
Argentina	1,173	617	559	NA	58	NA	NA	556
Brazil	9,104	4,498	1,413	56	963	729	1,337	4,606
Chile	276	167	82	2	27	25	31	109
Colombia	159	48	NA	NA	15	NA	33	111
Oceania								
Australia	4,205	2,223	815	99	165	695	449	1,982
New Zealand	713	397	182	19	28	102	67	316

* = nil or negligible; NA = not available.

EU = European Union.

[a] India data include social sciences in humanities and arts (non-S&E).

Note(s)

Physical and biological sciences and mathematics and statistics include biological and related sciences, environmental sciences, and physical sciences. Computer sciences include information and communication technologies. Agricultural sciences include agriculture, forestry, fisheries, and veterinary sciences. Social and behavioral sciences include social and behavioral sciences, and journalism and information. Engineering includes engineering and engineering trades, manufacturing and processing, and architecture and construction. To facilitate international comparison, data for the United States reflect the most recent classification in the International Standard Classification of Education Fields of Education and Training (ISCED-F), which varies slightly from the National Science Foundation classification of fields presented in other sections of the chapter. Data for doctoral degrees use ISCED 2011 level 8. S&E data do not include health fields.

Source(s)

United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics database, special tabulations (2015); Government of India, Ministry of Human Resource Development, Department of Higher Education, All India Survey on Higher Education 2014–15 (2016); Ministry of Education, *Educational Statistics of the Republic of China (Taiwan): 2015* (2016); National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), https://ncsesdata.nsf.gov/webcaspar/.

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APPENDIX TABLE 2-41

Trends in population age 20–24, by selected country and region: Selected years: 2015–60

(Thousands)

Year	Western Europe	Eastern Europe	Africa	South America	United States	Oceania	China	Japan	South Korea	India	Russia	Brazil
2015	10,856	18,104	107,514	34,762	22,740	2,974	106,139	6,112	3,523	118,192	8,940	16,669
2020	10,653	13,709	119,758	35,301	22,059	3,009	78,489	5,999	3,295	122,258	6,420	17,378
2025	10,449	13,787	135,675	35,387	22,077	3,092	74,617	5,666	2,532	125,067	7,054	17,311
2030	10,221	15,809	154,515	33,392	22,299	3,371	77,848	5,466	2,331	124,819	8,029	15,305
2035	10,226	16,974	174,425	33,030	22,183	3,511	82,236	5,340	2,351	120,689	9,250	14,905
2040	10,371	16,182	188,562	32,380	22,866	3,682	77,765	5,156	2,371	121,269	8,906	14,423
2045	10,351	14,750	202,230	31,528	23,383	3,744	67,916	4,947	2,359	120,400	8,106	13,907
2050	10,232	13,294	216,954	30,557	23,615	3,791	62,073	4,792	2,389	118,390	7,256	13,327
2055	10,101	12,646	232,738	29,614	23,757	3,836	60,852	4,685	2,288	114,905	6,932	12,773
2060	9,992	13,073	248,105	28,752	23,999	3,909	61,107	4,596	2,060	110,685	7,297	12,269

Source(s)

United Nations Secretariat, Department of Economic and Social Affairs, Population Division, *World Population Prospects: The 2015 Revision*, https://esa.un.org/unpd/wpp/unpp/panel_indicators.htm, accessed 4 October 2016; Census Bureau, Population Division, 2014 National Population Projections, Table 1, https://www.census.gov/data/tables/2014/demo/popproj/2014-summary-tables.htm, accessed 2 January 2015.

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APPENDIX TABLE 2-42

Foreign S&E student enrollment in United Kingdom universities, by enrollment level, place of origin, and field: Academic years 2005–06 and 2015–16

(Number)

Academic year, enrollment level, and place of origin	All S&E fields	Physical, biological, and agricultural sciences	Mathematics and computer sciences	Social and behavioral sciences	Engineering
2005–06					
All undergraduates	536,310	149,140	123,410	166,040	97,720
All foreign	55,950	8,990	12,560	15,210	19,200
China	8,590	890	2,850	2,450	2,400
Malaysia	3,380	270	500	320	2,280
France	3,080	530	480	620	1,450
Greece	2,890	300	650	600	1,330
Ireland	2,890	930	240	630	1,090
Hong Kong	2,680	540	580	770	790
Germany	2,160	500	290	950	410
Cyprus	1,840	360	590	420	470
Nigeria	1,800	170	460	370	800
India	1,690	190	360	240	900
Other	24,950	4,310	5,560	7,840	7,280
Foreign (%)	10.4	6.0	10.2	9.2	19.6
All graduates	156,020	39,370	29,170	48,500	38,980
All foreign	67,630	13,250	14,530	18,460	21,400
China	10,090	1,120	2,850	2,010	4,120
India	6,410	1,210	2,150	530	2,520
Greece	5,260	880	1,090	1,290	2,000
United States	3,100	600	240	2,000	270
Pakistan	2,670	200	1,060	240	1,170
Nigeria	2,530	470	700	440	930

Academic year, enrollment level, and place of origin	All S&E fields	Physical, biological, and agricultural sciences	Mathematics and computer sciences	Social and behavioral sciences	Engineering
Germany	2,370	580	400	860	530
France	2,240	660	350	390	840
Ireland	1,800	540	190	600	470
Malaysia	1,740	270	310	170	990
Other	29,420	6,720	5,190	9,930	7,560
Foreign (%)	43.3	33.6	49.8	38.1	54.9
2015–16					
All undergraduates	648,855	199,585	116,215	208,580	124,475
All foreign	91,590	17,140	16,125	28,675	29,650
China	12,935	1,590	3,345	3,090	4,910
Malaysia	5,375	865	675	1,050	2,785
Hong Kong	5,330	1,165	700	2,060	1,405
France	3,175	665	550	1,315	645
Cyprus	3,045	825	775	555	890
Romania	2,935	435	1,120	920	460
United States	2,930	990	265	1,475	200
Nigeria	2,845	305	555	635	1,350
India	2,655	295	425	640	1,295
Italy	2,485	560	360	1,110	455
Other	47,880	9,445	7,355	15,825	15,255
Foreign (%)	14.1	8.6	13.9	13.7	23.8
All graduates	181,200	49,600	26,340	59,205	46,055
All foreign	85,225	18,420	14,265	24,715	27,825
China	17,190	2,065	3,155	4,710	7,260
Nigeria	4,780	1,070	1,035	715	1,960
India	4,370	760	1,010	835	1,765

Academic year, enrollment level, and place of origin	All S&E fields	Physical, biological, and agricultural sciences	Mathematics and computer sciences	Social and behavioral sciences	Engineering
United States	3,730	920	280	2,220	310
Germany	3,700	990	555	1,370	785
Italy	3,260	1,015	435	915	895
Greece	2,740	545	560	605	1,030
Saudi Arabia	2,545	725	960	225	635
France	2,505	605	430	540	930
Malaysia	1,965	500	280	305	880
Other	38,440	9,225	5,565	12,275	11,375
Foreign (%)	47.0	37.1	54.2	41.7	60.4

Note(s)

Academic year 2006 includes enrollment between 1 August 2005 and 31 July 2006. Academic year 2016 includes enrollment between 1 August 2015 and 31 July 2015. Data are rounded to the nearest 5. Detail may not add to total because of rounding. Percentages are based on rounded data. Physical, biological, and agricultural sciences include earth, atmospheric, and ocean sciences.

Source(s)

Higher Education Statistics Agency, special tabulations (2017).

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APPENDIX TABLE 2-43

Foreign S&E student enrollment in Japanese universities, by enrollment level, place of origin, and field: 2004 and 2016

(Number)

Year, enrollment level, and place of origin	S&E fields					Non-S&E fields
	All S&E	Physical and biological sciences and mathematics	Agricultural sciences	Social and behavioral sciences	Engineering	
2004						
All undergraduates	1,557,939	87,398	69,672	961,762	439,107	947,984
Foreign	39,914	595	540	32,916	5,863	18,050
China	29,192	324	318	25,470	3,080	11,980
South Korea	7,018	185	122	5,403	1,308	4,911
Malaysia	1,142	15	15	198	914	97
Vietnam	424	6	10	242	166	115
Indonesia	233	3	14	152	64	65
Thailand	226	3	12	179	32	62
Mongolia	160	1	9	133	17	53
Sri Lanka	146	1	2	101	42	25
United Kingdom	78	1	0	73	4	59
United States	76	7	0	65	4	157
Other	1,219	49	38	900	232	526
Foreign (%)	2.6	0.7	0.8	3.4	1.3	1.9

Year, enrollment level, and place of origin	S&E fields					Non-S&E fields
	All S&E	Physical and biological sciences and mathematics	Agricultural sciences	Social and behavioral sciences	Engineering	
All graduates	140,822	20,298	12,691	29,014	78,819	95,336
Master's	109,062	13,954	8,337	21,536	65,235	53,650
Doctorate	31,760	6,344	4,354	7,478	13,584	41,686
Foreign	16,784	916	2,164	7,383	6,321	9,702
China	8,981	336	833	4,979	2,833	5,500
South Korea	2,095	110	220	803	962	1,901
Indonesia	655	66	157	104	328	141
Thailand	604	24	152	128	300	237
Bangladesh	505	63	134	79	229	208
Vietnam	480	14	94	175	197	124
Malaysia	288	15	25	74	174	74
Philippines	241	34	60	74	73	80
Myanmar	170	10	46	51	63	58
Sri Lanka	159	13	37	37	72	45
Other	2,606	231	406	879	1,090	1,334
Foreign (%)	11.9	4.5	17.1	25.4	8.0	10.2
2016						

Year, enrollment level, and place of origin	S&E fields					Non-S&E fields
	All S&E	Physical and biological sciences and mathematics	Agricultural sciences	Social and behavioral sciences	Engineering	
All undergraduates	1,369,855	79,290	76,404	829,399	384,762	1,197,175
Foreign	43,760	1,016	685	33,274	8,785	36,633
China	24,615	531	317	19,157	4,610	15,466
South Korea	6,856	250	125	5,199	1,282	6,428
Vietnam	4,671	30	44	3,982	615	2,471
Nepal	1,235	3	4	1,114	114	1,148
Malaysia	1,118	25	10	190	893	300
Taiwan	762	21	11	629	101	1,964
Indonesia	694	30	36	454	174	445
Thailand	667	21	30	467	149	593
Mongolia	326	7	14	218	87	244
Brazil	304	7	14	193	90	491
Other	2,512	91	80	1,671	670	7,083
Foreign (%)	3.2	1.3	0.9	4.0	2.3	3.1
All graduates	131,751	18,550	12,295	22,050	78,856	101,214
Master's	104,074	13,539	8,715	15,930	65,890	55,040
Doctorate	27,677	5,011	3,580	6,120	12,966	46,174

Year, enrollment level, and place of origin	S&E fields					Non-S&E fields
	All S&E	Physical and biological sciences and mathematics	Agricultural sciences	Social and behavioral sciences	Engineering	
Foreign	24,899	1,870	2,373	9,877	10,779	20,667
China	13,092	771	838	6,469	5,014	11,728
South Korea	1,488	138	101	554	695	1,386
Indonesia	1,314	185	237	208	684	666
Vietnam	1,203	78	138	345	642	607
Thailand	904	44	149	176	535	480
Taiwan	684	46	71	328	239	734
Bangladesh	539	69	158	91	221	360
Malaysia	513	41	44	74	354	184
India	405	56	25	63	261	185
Myanmar	302	8	48	102	144	185
Other	4,455	434	564	1,467	1,990	4,152
Foreign (%)	18.9	10.1	19.3	44.8	13.7	20.4

Note(s)

Data are for students of non-Japanese citizenship, including permanent residents. Undergraduates include those attending 4-year colleges and universities. Engineering includes computer sciences. Physical and biological sciences and mathematics include earth, atmospheric, and ocean sciences and mathematics. Social and behavioral sciences include business and law. Enrollment is as of May of the reference year.

Source(s)

Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education, special tabulations (2016).

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APPENDIX TABLE 2-44

S&E student enrollment in Canadian universities, by enrollment level, place of origin, and S&E field: 2004 and 2014

(Number)

Year, enrollment level, and place of origin	All S&E fields	Physical and biological sciences	Mathematics and computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering
2004						
Undergraduates	334,797	77,748	30,105	10,083	150,783	66,078
Foreign	19,962	3,336	3,198	426	7,257	5,745
China	3,456	453	975	60	1,272	696
United States	2,445	588	156	120	1,299	282
France	1,101	150	93	30	561	267
Morocco	1,056	96	168	6	138	648
India	594	81	123	6	105	279
South Korea	501	153	75	9	183	81
Hong Kong	483	84	99	9	195	96
Pakistan	468	57	129	0	123	159
Lebanon	462	72	48	0	75	267
Bangladesh	372	39	138	6	60	129
Other	9,024	1,563	1,194	180	3,246	2,841
Foreign (%)	6.0	4.3	10.6	4.2	4.8	8.7
Graduates	65,976	15,927	7,704	4,134	20,082	18,129

Year, enrollment level, and place of origin	All S&E fields	Physical and biological sciences	Mathematics and computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering
Foreign	12,999	2,529	1,881	708	2,895	4,986
China	2,769	459	624	57	411	1,218
France	1,368	456	93	117	408	294
United States	765	219	108	39	279	120
Iran	663	84	75	18	36	450
India	657	75	108	33	57	384
Morocco	567	84	111	30	99	243
Algeria	408	54	102	18	30	204
Romania	372	93	57	12	81	129
Tunisia	348	39	78	9	87	135
Bangladesh	312	21	45	3	36	207
Other	4,770	945	480	372	1,371	1,602
Foreign (%)	19.7	15.9	24.4	17.1	14.4	27.5
2014						
Undergraduates	436,098	101,622	33,420	14,532	191,151	95,373
Foreign	30,873	5,448	3,612	1,032	10,647	10,134
China	8,994	1,464	1,821	432	2,871	2,406
France	4,449	555	165	72	2,211	1,446

Year, enrollment level, and place of origin	All S&E fields	Physical and biological sciences	Mathematics and computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering
United States	3,141	843	312	168	1,338	480
Saudi Arabia	882	123	120	15	132	492
India	870	144	117	21	156	432
Nigeria	816	183	87	21	252	273
United Arab Emirates	765	159	48	18	159	381
Hong Kong	639	162	63	30	285	99
Pakistan	561	54	57	3	150	297
Brazil	519	63	27	18	36	375
Other	9,237	1,698	795	234	3,057	3,453
Foreign (%)	7.1	5.4	10.8	7.1	5.6	10.6
Graduates	92,505	20,076	9,981	5,082	29,568	27,798
Foreign	19,188	3,756	2,571	969	3,267	8,625
China	3,648	525	504	213	558	1,848
France	2,544	702	171	135	735	801
India	2,418	291	462	72	63	1,530
Iran	1,884	237	276	33	72	1,266
United States	1,341	429	189	84	417	222
Bangladesh	432	63	93	15	51	210

Year, enrollment level, and place of origin	All S&E fields	Physical and biological sciences	Mathematics and computer sciences	Agricultural sciences	Social and behavioral sciences	Engineering
Tunisia	423	75	63	15	39	231
Egypt	321	51	27	6	9	228
Saudi Arabia	303	75	84	12	24	108
Nigeria	297	30	51	21	42	153
Other	5,577	1,278	651	363	1,257	2,028
Foreign (%)	20.7	18.7	25.8	19.1	11.0	31.0

Note(s)

Enrollment is as of 31 October of the reference year. Data exclude respondents with unknown country of permanent residence. Data are rounded to the nearest 3. Detail may not add to total because of rounding. Physical and biological sciences include earth, atmospheric, and ocean sciences. Engineering includes architecture. Social and behavioral sciences include law.

Source(s)

Statistics Canada, Center for Education Statistics, special tabulations (2016).

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