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TABLE S2-1

S&E degrees awarded, by degree level, Carnegie institution type, and field: 2017

(Number)

Degree and institution type	All fields	All S&E	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Associate's	1,014,574	92,650	2,781	5,737	31,179	151	3,454	5,699	11,282	26,319	6,048
Doctoral universities: highest research activity	2,549	74	57	0	13	0	0	0	0	4	0
Doctoral universities: higher research activity	4,565	161	35	0	123	0	0	0	0	1	2
Doctoral universities: moderate research activity	12,409	2,746	12	11	1,085	0	3	3	381	1,248	3
Master's colleges and universities	55,900	3,288	24	91	2,126	0	12	85	278	575	97
Baccalaureate colleges	61,527	3,389	249	67	2,215	0	7	295	39	447	70
Associate's colleges	817,547	80,497	2,281	5,454	24,449	149	3,402	5,096	10,473	23,364	5,829
Medical schools and medical centers	222	0	0	0	0	0	0	0	0	0	0
Schools of engineering	9	0	0	0	0	0	0	0	0	0	0
Other specialized institutions	51,163	1,662	79	13	868	0	0	212	13	452	25
Tribal colleges	1,446	274	44	18	49	2	2	0	16	123	20
Not classified	7,237	559	0	83	251	0	28	8	82	105	2
Bachelor's	1,973,112	684,557	31,089	121,742	72,129	7,320	25,808	23,410	117,441	167,691	117,927
Doctoral universities: highest research activity	558,545	276,853	13,924	49,737	23,312	3,037	11,953	8,688	32,626	70,365	63,211
Doctoral universities: higher research activity	265,997	96,481	4,656	17,120	8,204	1,342	3,077	2,908	14,314	19,648	25,212
Doctoral universities: moderate research activity	186,862	50,210	1,486	7,770	5,975	373	1,431	1,453	11,322	13,461	6,939
Master's colleges and universities	697,582	189,282	8,073	32,056	25,436	1,782	6,533	6,888	46,953	44,758	16,803
Baccalaureate colleges	179,545	64,984	2,867	14,258	6,260	767	2,762	3,418	11,451	18,800	4,401
Associate's colleges	7,293	781	35	67	668	0	2	0	5	4	0
Medical schools and medical centers	6,336	16	0	16	0	0	0	0	0	0	0
Schools of engineering	1,548	1,430	0	24	114	13	10	25	0	0	1,244
Other specialized institutions	63,744	3,664	6	610	2,078	0	6	28	522	306	108
Tribal colleges	373	124	36	2	9	1	0	0	6	68	2
Not classified	5,287	732	6	82	73	5	34	2	242	281	7
Master's	810,108	206,172	6,119	16,253	46,615	2,182	10,294	4,757	24,653	38,328	56,971
Doctoral universities: highest research activity	255,679	94,413	3,605	8,250	17,494	1,147	6,498	2,885	2,399	18,105	34,030

TABLE S2-1

S&E degrees awarded, by degree level, Carnegie institution type, and field: 2017

(Number)

Degree and institution type	All fields	All S&E	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Doctoral universities: higher research activity	102,614	33,244	1,012	2,273	7,403	697	1,803	914	2,716	5,617	10,809
Doctoral universities: moderate research activity	111,610	21,014	318	1,160	4,126	92	658	343	6,866	4,249	3,202
Master's colleges and universities	273,433	50,017	1,155	3,035	15,969	222	1,320	579	9,990	9,648	8,099
Baccalaureate colleges	12,138	1,307	26	77	296	15	11	27	330	198	327
Associate's colleges	43	3	0	0	0	0	0	0	1	2	0
Medical schools and medical centers	10,406	1,512	0	1,314	1	4	0	1	89	54	49
Schools of engineering	460	383	0	0	67	5	0	3	0	0	308
Other specialized institutions	40,284	3,650	0	111	759	0	4	5	2,257	392	122
Tribal colleges	36	6	2	0	0	0	0	0	0	4	0
Not classified	3,405	623	1	33	500	0	0	0	5	59	25
Doctoral	71,142	45,729	1,364	14,204	1,934	890	1,925	5,086	4,486	5,293	10,547
Doctoral universities: highest research activity	44,784	32,811	1,073	8,956	1,429	773	1,616	4,238	1,741	4,254	8,731
Doctoral universities: higher research activity	10,800	6,386	229	1,718	322	108	279	749	846	633	1,502
Doctoral universities: moderate research activity	9,526	3,402	29	1,408	123	3	21	39	1,329	303	147
Master's colleges and universities	2,725	768	29	345	37	2	4	17	171	55	108
Baccalaureate colleges	148	16	0	2	0	0	5	3	4	2	0
Medical schools and medical centers	1,649	1,588	4	1,433	3	1	0	25	45	30	47
Schools of engineering	35	35	0	0	20	3	0	0	0	0	12
Other specialized institutions	1,215	523	0	155	0	0	0	3	350	15	0
Not classified	260	200	0	187	0	0	0	12	0	1	0

Note(s)

Medical and other health sciences are included in biological sciences for doctoral degrees. Carnegie institution type corresponds to the 2015 Carnegie Classification of Institutions of Higher Education.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey.

TABLE S2-2

U.S. citizen and permanent resident doctorate recipients who earned an associate's degree, by sex, race, ethnicity, and field: 2017

(Percent)

Demographic characteristic	All fields	All S&E fields	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Medical and other health sciences	Physical sciences	Psychology	Social sciences	Non-S&E
All doctorate recipients	6.1	5.5	3.7	6.8	3.9	6.4	4.3	4.9	10.7	4.1	6.6	7.1	7.8
Sex													
Male	5.9	5.3	4.1	7.4	4.5	6.6	4.6	5.2	10.1	3.9	7.6	7.0	8.0
Female	6.4	5.7	2.7	6.3	3.4	5.9	4.0	4.4	10.9	4.6	6.2	7.3	7.6
Race and ethnicity													
Hispanic or Latino	8.7	7.8	5.2	s	5.1	11.6	0.0	s	17.0	4.9	9.3	10.7	10.7
Not Hispanic or Latino													
American Indian or Alaska Native	12.8	s	0.0	s	s	0.0	0.0	0.0	s	0.0	s	s	s
Asian	2.9	2.5	2.0	s	1.9	0.0	0.0	s	s	s	s	1.8	5.2
Black or African American	10.3	10.8	7.7	s	4.0	s	s	s	21.8	s	8.7	11.9	9.7
White	6.0	5.5	3.8	7.1	4.2	7.6	4.8	5.7	9.0	4.2	6.4	7.0	7.4
More than one race	8.1	s	8.8	s	3.4	s	s	s	9.0	6.6	9.5	7.7	s
Other race or race not reported	5.1	3.6	1.5	0.0	s	s	s	0.0	3.4	2.6	5.3	s	9.0
Ethnicity not reported	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	1.0	0.9

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

Note(s)

Hispanic may be any race; race categories exclude Hispanic origin. Data include only respondents to the associate's degree question. Reporting categories for race and ethnicity were expanded in 2013; comparisons with data before 2013 should be made with caution.

Source(s)

National Center for Science and Engineering Statistics, National Science Foundation, special tabulations (2018) of the Survey of Earned Doctorates (SED).

TABLE S2-3

Doctorate recipients' source of primary support, by field, sex, citizenship, ethnicity, and race: 2015–17

(Percent)

Source of primary support and field	Total ^a	Temporary visa holder	U.S. citizens and permanent residents										
			Total	Male	Female	Hispanic or Latino ^b	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) ^c	164,427	48,944	106,574	52,348	54,224	7,538	368	9,659	7,045	75,783	2,952	993	2,236
Fellowship or traineeship	20.8	16.3	24.5	23.8	25.1	31.1	28.8	27.8	24.3	23.7	30.6	21.5	5.5
Grant ^d	3.8	2.7	4.6	5.0	4.3	4.8	3.0	6.1	3.0	4.7	5.3	3.3	1.0
Teaching assistantship	18.5	21.4	18.5	18.8	18.2	16.1	14.1	16.5	11.3	20.2	18.5	13.9	3.9
Research assistantship	27.3	44.7	21.4	25.2	17.7	15.4	6.3	28.3	10.6	22.7	21.2	14.4	5.5
Personal	13.6	3.2	19.5	15.3	23.5	21.1	31.3	10.6	37.2	19.3	17.9	14.5	5.3
Other	4.4	5.2	4.3	4.6	3.9	3.4	4.9	3.3	4.9	4.6	3.3	2.8	1.3
Unknown	11.6	6.5	7.3	7.3	7.3	8.1	11.7	7.4	8.6	4.9	3.2	29.6	77.6
S&E (number)	125,067	42,717	76,030	39,980	36,048	5,270	222	7,931	4,171	53,858	2,223	714	1,641
Fellowship or traineeship	20.9	14.3	26.2	24.4	28.2	34.8	36.5	27.1	29.3	25.5	32.1	20.7	5.4
Grant ^d	4.7	3.0	6.1	6.2	5.9	6.4	s	7.3	4.3	6.1	6.7	s	1.3
Teaching assistantship	17.1	20.4	16.6	16.9	16.2	13.9	12.6	15.1	11.7	17.9	17.1	13.0	3.4
Research assistantship	33.0	48.7	26.6	30.8	22.0	18.8	s	31.6	13.0	28.6	25.5	s	6.8
Personal	9.2	2.3	13.8	10.4	17.5	15.4	22.1	8.4	30.2	13.5	12.8	10.8	3.8
Other	3.8	4.9	3.4	3.9	2.9	2.9	4.1	3.0	4.0	3.6	2.7	2.2	1.0
Unknown	11.2	6.3	7.3	7.3	7.2	7.9	12.6	7.5	7.5	4.8	3.1	31.5	78.4
Engineering (number)	29,177	15,022	12,739	9,533	3,206	851	25	2,023	506	8,497	342	132	363
Fellowship or traineeship	15.9	8.5	26.2	22.9	36.1	35.7	40.0	22.9	37.4	26.1	31.9	18.2	5.0
Grant ^d	4.2	2.7	6.4	6.3	6.6	6.3	s	6.8	s	6.7	6.1	2.3	1.4
Teaching assistantship	8.5	11.4	5.9	5.9	5.6	6.6	s	6.7	s	5.8	6.1	1.5	0.8
Research assistantship	51.2	64.2	41.2	43.1	35.3	32.9	24.0	45.8	26.5	43.4	40.1	31.1	8.0
Personal	3.7	2.0	6.2	6.7	4.7	6.5	s	5.7	s	6.2	4.1	6.8	1.1
Other	5.0	4.6	6.1	7.0	3.3	6.0	8.0	4.4	7.9	6.6	7.0	3.8	1.1
Unknown	11.5	6.7	8.2	8.2	8.3	6.0	4.0	7.7	7.1	5.1	4.7	36.4	82.6
Agricultural sciences (number)	4,063	1,536	2,318	1,165	1,152	141	8	146	95	1,786	52	24	66
Fellowship or traineeship	17.8	15.4	21.0	16.9	25.1	30.5	s	16.4	22.1	20.8	s	8.3	4.5
Grant ^d	4.2	2.5	5.8	6.1	5.5	6.4	0.0	6.2	s	6.0	s	4.2	1.5
Teaching assistantship	9.8	9.0	11.0	10.0	12.0	12.1	s	10.3	s	11.5	9.6	12.5	1.5
Research assistantship	41.3	52.0	37.7	41.2	34.3	26.2	0.0	44.5	32.6	40.0	38.5	8.3	9.1
Personal	7.0	2.6	10.5	10.7	10.3	9.2	0.0	s	18.9	11.1	s	8.3	3.0
Other	8.2	12.6	5.9	6.5	5.3	7.8	s	s	5.3	5.8	3.8	4.2	3.0
Unknown	11.7	5.9	8.1	8.6	7.6	7.8	0.0	12.3	10.5	4.7	1.9	54.2	77.3

TABLE S2-3

Doctorate recipients' source of primary support, by field, sex, citizenship, ethnicity, and race: 2015–17

(Percent)

Source of primary support and field	Total ^a	Temporary visa holder	U.S. citizens and permanent residents											
			Total	Male	Female	Hispanic or Latino ^b	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		
Biological sciences (number)	25,352	6,590	17,730	8,347	9,383	1,376	37	2,109	728	12,486	588	142	264	
Fellowship or traineeship	32.8	23.1	38.1	37.2	39.0	48.3	48.6	38.9	46.7	36.9	42.2	30.3	6.4	
Grant ^d	11.4	6.8	13.7	13.8	13.6	13.5	13.5	15.2	15.4	13.5	15.3	14.8	3.0	
Teaching assistantship	11.9	14.5	11.6	11.6	11.6	8.7	s	8.8	8.4	12.9	9.5	s	2.3	
Research assistantship	28.6	44.8	24.2	24.8	23.6	16.0	s	25.7	14.0	25.8	24.8	s	8.3	
Personal	4.0	1.1	5.3	5.0	5.7	6.1	s	4.4	7.0	5.3	4.9	s	3.8	
Other	2.6	5.1	1.8	1.9	1.7	1.7	2.7	1.9	0.7	1.9	0.9	0.7	0.0	
Unknown	8.6	4.7	5.3	5.9	4.8	5.7	10.8	5.1	7.8	3.6	2.4	19.0	76.1	
Computer sciences (number)	6,074	3,399	2,353	1,838	515	111	s	367	103	1,595	64	s	77	
Fellowship or traineeship	12.2	9.4	17.8	s	s	25.2	0.0	13.9	27.2	18.1	18.8	17.1	6.5	
Grant ^d	2.7	2.3	3.7	s	s	0.0	0.0	4.4	0.0	4.3	0.0	0.0	1.3	
Teaching assistantship	12.4	15.4	9.4	9.2	10.1	8.1	0.0	13.1	6.8	9.3	9.4	8.6	0.0	
Research assistantship	49.0	59.8	39.9	42.5	30.5	32.4	0.0	44.4	16.5	41.9	54.7	28.6	11.7	
Personal	6.6	1.7	14.5	13.6	17.7	18.9	0.0	9.3	27.2	15.2	10.9	5.7	9.1	
Other	5.2	4.3	7.0	7.6	4.9	9.9	0.0	5.2	11.7	7.5	1.6	2.9	1.3	
Unknown	11.9	7.1	7.8	7.5	9.1	5.4	s	9.8	10.7	3.8	4.7	s	70.1	
Earth, atmospheric, and ocean sciences (number)	3,163	990	2,050	1,153	897	113	7	110	34	1,685	51	14	36	
Fellowship or traineeship	21.4	13.6	26.3	22.5	31.2	36.3	s	23.6	44.1	25.4	s	35.7	5.6	
Grant ^d	6.1	5.4	6.9	7.4	6.2	7.1	0.0	6.4	s	7.1	s	7.1	0.0	
Teaching assistantship	14.2	13.4	15.4	14.2	16.9	15.9	s	13.6	s	16.0	15.7	s	5.6	
Research assistantship	42.4	54.3	38.9	42.2	34.6	30.1	0.0	38.2	23.5	41.1	27.5	21.4	8.3	
Personal	3.8	1.0	5.4	6.2	4.2	6.2	0.0	4.5	s	5.2	9.8	s	8.3	
Other	3.6	6.7	2.3	2.8	1.8	0.9	0.0	5.5	2.9	2.0	7.8	0.0	8.3	
Unknown	8.5	5.6	4.8	4.6	5.0	3.5	0.0	8.2	5.9	3.3	2.0	21.4	63.9	
Mathematics (number)	5,543	2,505	2,785	2,037	748	139	s	330	78	2,010	86	s	98	
Fellowship or traineeship	14.5	11.7	18.2	s	s	30.2	0.0	21.2	23.1	16.8	30.2	20.0	5.1	
Grant ^d	0.9	0.6	1.3	s	s	s	0.0	s	s	1.3	s	0.0	0.0	
Teaching assistantship	53.7	59.1	53.1	53.8	51.3	42.4	s	47.3	55.1	56.9	s	47.5	11.2	
Research assistantship	14.4	18.2	12.2	12.3	11.8	7.9	0.0	12.4	6.4	13.2	10.5	2.5	6.1	
Personal	3.4	1.3	5.5	5.1	6.7	6.5	0.0	5.5	s	5.7	s	s	3.1	
Other	2.1	2.6	1.9	1.6	2.8	s	0.0	s	1.3	1.8	0.0	0.0	1.0	

TABLE S2-3

Doctorate recipients' source of primary support, by field, sex, citizenship, ethnicity, and race: 2015–17

(Percent)

Source of primary support and field	Total ^a	Temporary visa holder	U.S. citizens and permanent residents										
			Total	Male	Female	Hispanic or Latino ^b	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	
Unknown	11.0	6.6	7.8	7.9	7.6	7.9	75.0	9.7	3.8	4.2	1.2	27.5	73.5
Medical and other health sciences (number)	8,158	1,656	6,088	1,643	4,445	392	30	588	717	4,041	152	52	116
Fellowship or traineeship	21.8	20.9	23.4	20.9	24.3	30.4	s	28.2	22.9	22.6	s	13.5	3.4
Grant ^d	3.7	2.7	4.2	5.3	3.8	5.1	0.0	4.8	2.1	4.6	5.9	0.0	1.7
Teaching assistantship	10.1	15.9	9.1	13.0	7.7	8.2	s	8.8	4.3	10.4	s	7.7	1.7
Research assistantship	18.8	35.5	15.5	19.8	13.8	11.5	s	23.3	8.5	16.5	s	7.7	2.6
Personal	26.0	7.5	32.6	25.5	35.2	33.2	46.7	21.4	52.0	31.6	30.3	17.3	8.6
Other	8.4	11.4	8.1	6.9	8.6	5.9	6.7	5.6	5.6	9.5	7.9	5.8	0.0
Unknown	11.1	6.1	7.1	8.5	6.6	5.9	23.3	7.8	4.6	4.9	2.0	48.1	81.9
Physical sciences (number)	14,802	5,541	8,573	5,930	2,643	443	15	812	257	6,576	254	68	148
Fellowship or traineeship	14.1	7.9	19.1	16.8	24.2	33.2	33.3	16.4	30.0	18.2	22.0	14.7	4.7
Grant ^d	4.1	2.7	5.2	5.4	4.8	5.6	s	s	3.9	5.3	6.3	2.9	2.0
Teaching assistantship	23.5	28.8	21.7	21.3	22.6	18.7	s	23.5	30.4	21.5	s	16.2	4.7
Research assistantship	45.0	51.5	44.0	45.9	39.6	30.7	s	43.3	23.3	46.9	s	33.8	12.2
Personal	1.8	0.4	2.9	3.1	2.5	2.3	s	s	3.9	3.0	s	0.0	1.4
Other	1.4	1.9	1.2	1.4	0.7	1.1	6.7	1.7	1.2	1.1	0.8	1.5	0.7
Unknown	10.2	6.8	5.9	6.1	5.6	8.4	13.3	7.3	7.4	3.9	2.4	30.9	74.3
Psychology (number)	11,667	861	9,863	2,814	7,049	841	s	597	699	7,106	296	s	222
Fellowship or traineeship	16.2	21.8	17.2	18.0	16.8	20.2	28.1	22.8	18.9	16.4	20.3	12.9	4.5
Grant ^d	1.7	1.0	1.9	1.8	1.9	3.4	s	1.5	1.0	1.9	1.7	s	0.5
Teaching assistantship	18.5	28.5	19.3	23.1	17.8	12.0	21.9	21.1	10.4	21.4	19.9	12.9	3.2
Research assistantship	16.6	24.5	17.3	15.2	18.2	12.6	s	19.9	10.0	19.1	17.6	s	2.7
Personal	27.2	9.5	31.2	28.2	32.3	34.8	25.0	22.9	45.6	30.9	33.8	22.9	3.6
Other	1.5	5.3	1.3	2.0	1.1	0.7	3.1	0.5	2.1	1.4	1.4	0.0	0.0
Unknown	18.3	9.3	11.8	11.6	11.9	16.2	s	11.2	11.9	8.9	5.4	s	85.6
Social sciences (number)	17,068	4,617	11,531	5,520	6,010	863	63	849	954	8,076	338	137	251
Fellowship or traineeship	26.6	29.3	27.3	27.7	27.0	31.7	34.9	30.4	24.8	27.1	37.0	24.8	6.8
Grant ^d	0.8	0.7	0.8	0.7	1.0	s	s	0.9	0.8	0.9	s	2.2	0.0
Teaching assistantship	28.7	36.1	27.8	28.3	27.5	27.2	15.9	32.5	16.2	29.7	26.9	21.2	6.8
Research assistantship	12.4	16.4	11.6	11.7	11.6	9.8	s	13.8	5.7	12.8	s	4.4	3.6
Personal	16.8	5.7	22.5	21.3	23.6	21.7	31.7	13.5	41.5	21.9	21.3	21.9	5.2

TABLE S2-3

Doctorate recipients' source of primary support, by field, sex, citizenship, ethnicity, and race: 2015–17

(Percent)

Source of primary support and field	Total ^a	Temporary visa holder	U.S. citizens and permanent residents										
			Total	Male	Female	Hispanic or Latino ^b	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	3.8	5.6	3.3	3.6	3.1	s	s	1.5	4.8	3.6	2.1	2.9	2.0
Unknown	10.9	6.3	6.5	6.8	6.1	6.8	9.5	7.3	6.1	4.1	2.4	22.6	75.7
Non-S&E (number)	39,360	6,227	30,544	12,368	18,176	2,268	146	1,728	2,874	21,925	729	279	595
Fellowship or traineeship	20.4	29.7	20.0	21.8	18.8	22.8	17.1	31.3	17.0	19.4	26.2	23.3	5.7
Grant ^d	0.9	1.1	1.0	0.8	1.1	0.9	s	0.8	1.0	1.0	1.2	s	0.2
Teaching assistantship	22.6	28.2	23.3	25.0	22.1	21.5	16.4	22.6	10.7	25.8	22.6	16.1	5.2
Research assistantship	9.2	17.0	8.3	7.2	9.1	7.5	s	13.4	7.2	8.4	8.0	s	1.8
Personal	27.7	9.1	33.6	31.0	35.3	34.4	45.2	20.7	47.5	33.4	33.3	24.0	9.4
Other	6.2	7.6	6.4	7.0	5.9	4.5	6.2	4.3	6.2	6.9	5.1	4.3	2.2
Unknown	13.0	7.4	7.5	7.3	7.6	8.5	10.3	6.8	10.3	5.1	3.6	24.7	75.5
Education (number)	15,067	1,638	12,544	3,814	8,730	966	80	629	1,866	8,396	274	93	240
Fellowship or traineeship	9.9	17.8	9.5	8.3	10.1	13.9	s	18.4	12.1	7.7	s	16.1	4.2
Grant ^d	1.3	1.2	1.4	1.0	1.5	0.9	s	s	1.0	1.5	s	s	0.4
Teaching assistantship	10.4	19.4	9.9	9.6	10.0	8.2	7.5	14.1	6.1	10.8	11.3	7.5	1.7
Research assistantship	13.7	27.4	12.8	12.1	13.2	13.3	s	20.8	9.6	13.3	s	s	2.5
Personal	40.8	12.9	47.0	47.1	47.0	48.4	51.3	29.1	53.2	47.9	47.8	35.5	12.9
Other	10.9	14.0	11.2	14.0	10.0	6.7	s	s	7.6	13.1	6.9	10.8	3.8
Unknown	12.9	7.4	8.1	7.9	8.2	8.6	11.3	7.9	10.4	5.6	4.4	21.5	74.6
Humanities and arts (number)	15,653	2,015	12,646	6,161	6,485	969	53	541	443	9,937	326	135	242
Fellowship or traineeship	30.4	42.6	30.6	30.4	30.7	32.3	15.1	42.0	38.8	29.8	38.0	31.1	6.6
Grant ^d	0.7	1.3	0.6	0.7	0.6	s	0.0	s	1.4	0.6	s	0.0	0.0
Teaching assistantship	35.1	35.8	37.6	36.6	38.6	36.3	34.0	34.9	24.8	39.4	33.7	23.0	9.5
Research assistantship	1.6	1.8	1.7	1.4	2.0	1.1	0.0	s	1.4	1.8	s	2.2	0.0
Personal	18.2	6.8	21.4	22.0	20.8	20.4	35.8	15.9	27.1	21.8	22.1	17.8	7.4
Other	2.1	4.4	1.9	2.5	1.5	s	5.7	s	1.4	2.1	2.5	0.0	0.8
Unknown	11.8	7.3	6.2	6.5	5.9	7.2	9.4	4.1	5.2	4.4	2.1	25.9	75.6
Other (number)	8,640	2,574	5,354	2,393	2,961	333	13	558	565	3,592	129	51	113
Fellowship or traineeship	20.4	27.2	19.5	20.9	18.4	20.7	s	35.5	16.1	17.8	s	15.7	7.1
Grant ^d	0.7	0.8	0.8	0.7	0.8	s	0.0	s	0.9	0.8	s	0.0	0.0
Teaching assistantship	21.3	27.9	20.8	20.0	21.5	16.8	0.0	20.1	14.9	23.0	18.6	13.7	3.5
Research assistantship	15.2	22.3	13.5	14.2	13.0	9.6	s	s	4.1	15.1	15.5	19.6	4.4
Personal	21.9	8.4	31.0	28.6	32.9	34.2	46.2	15.9	44.8	31.7	31.0	19.6	6.2

TABLE S2-3

Doctorate recipients' source of primary support, by field, sex, citizenship, ethnicity, and race: 2015–17

(Percent)

Source of primary support and field	Total ^a	Temporary visa holder	U.S. citizens and permanent residents										
			Total	Male	Female	Hispanic or Latino ^b	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	5.2	6.0	5.5	7.4	3.9	s	s	3.0	5.5	5.8	7.8	3.9	1.8
Unknown	15.3	7.5	8.9	8.2	9.5	11.7	7.7	8.2	13.8	5.7	5.4	27.5	77.0

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

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

^b Hispanic may be any race; race categories exclude Hispanic origin.

^c Data include doctorate recipients whose field of study is unknown.

^d In 2017, the survey response option was changed from "grant" to "dissertation grant."

Note(s)
Data include 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)
National Center for Science and Engineering Statistics, National Science Foundation, special tabulations (2018) of the Survey of Earned Doctorates (SED).

TABLE S2-4

Associate's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	1,026,536	1,015,211	1,012,523	1,024,187	1,017,860	1,014,574
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	84,785	85,798	87,976	90,589	88,832	92,650
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	3,537	3,871	4,409	5,004	5,414	6,048
Aerospace	1	0	0	0	0	0	2	0	0	0	2	0	3	1	0	3	0	0
Chemical	16	18	28	7	305	2	7	3	1	10	9	31	13	22	21	50	38	42
Civil	58	53	46	62	58	52	43	64	37	62	47	71	93	121	110	103	126	147
Electrical	280	309	182	672	910	691	531	459	422	242	236	199	209	202	319	346	364	389
Industrial	67	132	80	81	49	88	57	56	57	83	72	69	67	64	66	99	72	68
Materials	11	14	10	12	12	13	10	8	9	5	10	6	1	6	11	11	12	13
Mechanical	77	67	65	69	70	64	68	77	100	121	137	139	177	184	213	209	307	316
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	2,974	3,271	3,669	4,183	4,495	5,073
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	81,248	81,927	83,567	85,585	83,418	86,602
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	52,943	51,535	51,491	51,929	47,217	49,001
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	2,526	2,392	2,484	2,678	2,673	2,781
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	4,028	4,340	4,689	5,071	5,461	5,737
Earth, atmospheric, and ocean sciences	82	82	58	52	41	45	67	69	67	98	99	95	103	112	136	153	152	151
Atmospheric sciences	0	1	0	0	2	2	7	10	5	4	16	10	9	4	6	3	1	0
Earth sciences	28	38	28	34	25	23	40	41	39	59	55	50	67	70	96	112	118	149
Oceanography	54	43	30	18	14	20	20	18	23	35	28	35	27	38	34	38	33	2
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	42,719	40,699	39,783	39,118	33,541	34,633
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	41,190	38,897	37,643	36,421	30,512	31,179
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	3,029	3,454
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	5,390	5,699
Astronomy	1	1	2	2	1	3	4	2	2	4	3	1	4	4	9	5	7	12
Chemistry	301	183	201	251	279	304	298	354	387	422	404	459	533	626	704	828	834	908
Physics	171	167	177	191	193	196	143	164	151	184	248	260	318	378	516	738	910	1,006
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	3,639	3,773
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	28,305	30,392	32,076	33,656	36,201	37,601
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	4,713	6,118	7,529	8,736	10,602	11,282
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	23,592	24,274	24,547	24,920	25,599	26,319
Anthropology	52	80	83	76	95	120	114	117	153	149	191	231	339	326	384	441	659	726
Area and ethnic studies	250	299	314	121	98	106	114	148	163	170	208	216	189	254	341	365	385	400
Economics	210	209	221	222	268	298	316	281	311	361	387	357	402	484	434	575	882	1,343
Linguistics	0	0	0	0	0	6	1	4	1	1	3	0	1	3	30	8	9	2
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	5,812	6,549	6,911	6,835	6,594	6,729

TABLE S2-4

Associate's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Sociology	366	371	416	456	552	500	475	510	546	599	658	862	1,071	1,598	2,050	2,554	3,272	3,876
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	15,778	15,060	14,397	14,142	13,798	13,243
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	941,751	929,413	924,547	933,598	929,028	921,924
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	165,632	156,573	148,966	144,098	136,580	132,581
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	40,630	37,475	34,638	34,764	31,704	31,561
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	121,786	115,739	110,779	105,513	100,796	96,480
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	2,230	2,357	2,465	2,592	3,033	3,447
Other S&E technologies	65	120	62	85	293	355	610	781	851	721	668	856	986	1,002	1,084	1,229	1,047	1,093
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	395,343	391,816	394,169	400,407	395,664	397,404
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	48,864	48,607	49,753	50,540	47,703	49,784
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	3,048	3,329	3,819	4,309	4,616	5,096
Aerospace	1	0	0	0	0	0	2	0	0	0	2	0	3	1	0	1	0	0
Chemical	11	16	26	6	117	1	5	2	1	8	5	24	11	14	12	37	28	28
Civil	38	34	29	48	41	39	31	44	31	48	40	55	70	95	84	91	100	121
Electrical	250	269	144	554	766	600	475	403	387	221	215	172	189	173	293	308	336	353
Industrial	52	115	74	70	43	82	48	47	50	76	62	61	59	56	64	91	68	62
Materials	10	11	9	8	10	11	7	7	8	5	7	5	1	5	8	10	11	13
Mechanical	69	60	56	62	66	62	65	71	91	102	122	124	164	164	195	174	271	277
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	2,551	2,821	3,163	3,597	3,802	4,242
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	45,816	45,278	45,934	46,231	43,087	44,688
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	38,429	37,134	37,188	37,036	32,945	34,027
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	1,585	1,469	1,485	1,623	1,528	1,607
Biological sciences	496	501	500	580	608	667	702	751	741	823	942	1,192	1,357	1,405	1,542	1,689	1,862	1,795
Earth, atmospheric, and ocean sciences	45	48	37	30	21	25	38	44	34	65	65	63	69	77	94	97	95	101
Atmospheric sciences	0	1	0	0	1	1	4	8	2	3	13	7	9	3	5	2	1	0
Earth sciences	12	26	17	15	12	11	24	22	18	42	31	29	42	43	60	69	68	99
Oceanography	33	21	20	15	8	13	10	14	14	20	21	27	18	31	29	26	26	2
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	33,410	31,911	31,504	30,772	26,294	27,245
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	32,360	30,668	30,012	28,857	24,134	24,875
Mathematics and statistics	408	450	446	466	503	529	483	548	575	635	725	1,025	1,050	1,243	1,492	1,915	2,160	2,370
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	3,166	3,279
Astronomy	1	1	1	1	1	3	4	1	2	3	3	0	2	3	7	5	5	9
Chemistry	126	99	108	121	125	156	153	150	183	197	214	222	276	314	384	443	411	396
Physics	94	107	109	132	134	132	117	131	118	145	189	194	252	290	389	559	701	761
Other physical sciences	398	391	480	342	624	669	716	823	803	865	978	1,257	1,478	1,665	1,783	1,848	2,049	2,113

TABLE S2-4

Associate's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	7,387	8,144	8,746	9,195	10,142	10,661
Psychology	326	360	370	441	434	445	446	517	554	744	1,271	896	1,092	1,496	1,795	2,050	2,591	2,672
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	6,295	6,648	6,951	7,145	7,551	7,989
Anthropology	21	30	28	35	26	40	26	33	44	50	61	67	127	115	126	151	198	233
Area and ethnic studies	56	44	63	33	40	40	36	53	59	52	88	66	63	100	131	148	155	181
Economics	116	114	90	113	141	158	178	154	165	220	233	209	240	284	263	325	527	778
Linguistics	0	0	0	0	0	3	0	0	0	0	1	0	0	1	12	2	1	1
Political science and public administration	251	204	225	271	286	372	367	361	386	437	475	811	1,069	1,186	1,308	1,357	1,425	1,584
Sociology	89	104	111	126	130	123	134	133	142	158	166	221	292	428	532	682	821	972
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	4,424	4,240
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	346,479	343,209	344,416	349,867	347,961	347,620
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	58,268	54,566	51,978	51,343	47,851	47,071
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	35,717	32,699	30,353	30,401	27,404	27,195
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	20,403	19,602	19,248	18,328	17,670	16,868
Science technologies	691	683	589	645	682	714	717	824	838	882	1,143	1,265	1,378	1,492	1,479	1,599	1,905	2,129
Other S&E technologies	54	96	54	72	240	303	510	641	694	563	531	693	770	773	898	1,015	872	879
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	631,193	623,395	618,354	623,780	622,196	617,170
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	35,921	37,191	38,223	40,049	41,129	42,866
Engineering	249	316	298	373	596	372	321	328	314	327	357	437	489	542	590	695	798	952
Aerospace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Chemical	5	2	2	1	188	1	2	1	0	2	4	7	2	8	9	13	10	14
Civil	20	19	17	14	17	13	12	20	6	14	7	16	23	26	26	12	26	26
Electrical	30	40	38	118	144	91	56	56	35	21	21	27	20	29	26	38	28	36
Industrial	15	17	6	11	6	6	9	9	7	7	10	8	8	8	2	8	4	6
Materials	1	3	1	4	2	2	3	1	1	0	3	1	0	1	3	1	1	0
Mechanical	8	7	9	7	4	2	3	6	9	19	15	15	13	20	18	35	36	39
Other	170	228	225	218	235	257	236	235	256	264	297	363	423	450	506	586	693	831
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	35,432	36,649	37,633	39,354	40,331	41,914
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	14,514	14,401	14,303	14,893	14,272	14,974
Agricultural sciences	791	787	764	774	709	649	740	674	635	687	795	774	941	923	999	1,055	1,145	1,174
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	2,671	2,935	3,147	3,382	3,599	3,942
Earth, atmospheric, and ocean sciences	37	34	21	22	20	20	29	25	33	33	34	32	34	35	42	56	57	50
Atmospheric sciences	0	0	0	0	1	1	3	2	3	1	3	3	0	1	1	1	0	0
Earth sciences	16	12	11	19	13	12	16	19	21	17	24	21	25	27	36	43	50	50
Oceanography	21	22	10	3	6	7	10	4	9	15	7	8	9	7	5	12	7	0

TABLE S2-4

Associate's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	9,309	8,788	8,279	8,346	7,247	7,388
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	8,830	8,229	7,631	7,564	6,378	6,304
Mathematics and statistics	267	246	240	269	299	278	270	279	280	295	326	620	479	559	648	782	869	1,084
Physical sciences	718	587	645	543	690	655	680	841	803	891	920	1,395	1,559	1,720	1,836	2,054	2,224	2,420
Astronomy	0	0	1	1	0	0	0	1	0	1	0	1	2	1	2	0	2	3
Chemistry	175	84	93	130	154	148	145	204	204	225	190	237	257	312	320	385	423	512
Physics	77	60	68	59	59	64	26	33	33	39	59	66	66	88	127	179	209	245
Other physical sciences	466	443	483	353	477	443	509	603	566	626	671	1,091	1,234	1,319	1,387	1,490	1,590	1,660
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	20,918	22,248	23,330	24,461	26,059	26,940
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	3,621	4,622	5,734	6,686	8,011	8,610
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	17,297	17,626	17,596	17,775	18,048	18,330
Anthropology	31	50	55	41	69	80	88	84	109	99	130	164	212	211	258	290	461	493
Area and ethnic studies	194	255	251	88	58	66	78	95	104	118	120	150	126	154	210	217	230	219
Economics	94	95	131	109	127	140	138	127	146	141	154	148	162	200	171	250	355	565
Linguistics	0	0	0	0	0	3	1	4	1	1	2	0	1	2	18	6	8	1
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	4,743	5,363	5,603	5,478	5,169	5,145
Sociology	277	267	305	330	422	377	341	377	404	441	492	641	779	1,170	1,518	1,872	2,451	2,904
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	11,274	10,526	9,818	9,662	9,374	9,003
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	595,272	586,204	580,131	583,731	581,067	574,304
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	107,364	102,007	96,988	92,755	88,729	85,510
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	4,913	4,776	4,285	4,363	4,300	4,366
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	101,383	96,137	91,531	87,185	83,126	79,612
Science technologies	468	507	438	450	451	532	508	605	610	592	675	716	852	865	986	993	1,128	1,318
Other S&E technologies	11	24	8	13	53	52	100	140	157	158	137	163	216	229	186	214	175	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 Center for Science and Engineering Statistics, National Science Foundation, Integrated Data System (IDS).

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	1,026,536	1,015,211	1,012,523	1,024,187	1,017,860	1,014,574
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	84,785	85,798	87,976	90,589	88,832	92,650
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	3,537	3,871	4,409	5,004	5,414	6,048
Aerospace	1	0	0	0	0	0	2	0	0	0	2	0	3	1	0	3	0	0
Chemical	16	18	28	7	305	2	7	3	1	10	9	31	13	22	21	50	38	42
Civil	58	53	46	62	58	52	43	64	37	62	47	71	93	121	110	103	126	147
Electrical	280	309	182	672	910	691	531	459	422	242	236	199	209	202	319	346	364	389
Industrial	67	132	80	81	49	88	57	56	57	83	72	69	67	64	66	99	72	68
Materials	11	14	10	12	12	13	10	8	9	5	10	6	1	6	11	11	12	13
Mechanical	77	67	65	69	70	64	68	77	100	121	137	139	177	184	213	209	307	316
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	2,974	3,271	3,669	4,183	4,495	5,073
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	81,248	81,927	83,567	85,585	83,418	86,602
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	52,943	51,535	51,491	51,929	47,217	49,001
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	2,526	2,392	2,484	2,678	2,673	2,781
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	4,028	4,340	4,689	5,071	5,461	5,737
Earth, atmospheric, and ocean sciences	82	82	58	52	41	45	67	69	67	98	99	95	103	112	136	153	152	151
Atmospheric sciences	0	1	0	0	2	2	7	10	5	4	16	10	9	4	6	3	1	0
Earth sciences	28	38	28	34	25	23	40	41	39	59	55	50	67	70	96	112	118	149
Oceanography	54	43	30	18	14	20	20	18	23	35	28	35	27	38	34	38	33	2
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	42,719	40,699	39,783	39,118	33,541	34,633
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	41,190	38,897	37,643	36,421	30,512	31,179
Mathematics	675	696	686	735	802	807	753	827	855	930	1,051	1,645	1,529	1,802	2,140	2,697	3,029	3,454
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	5,390	5,699
Astronomy	1	1	2	2	1	3	4	2	2	4	3	1	4	4	9	5	7	12
Chemistry	301	183	201	251	279	304	298	354	387	422	404	459	533	626	704	828	834	908
Physics	171	167	177	191	193	196	143	164	151	184	248	260	318	378	516	738	910	1,006
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	3,639	3,773
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	28,305	30,392	32,076	33,656	36,201	37,601
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	4,713	6,118	7,529	8,736	10,602	11,282
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	23,592	24,274	24,547	24,920	25,599	26,319
Anthropology	52	80	83	76	95	120	114	117	153	149	191	231	339	326	384	441	659	726
Area and ethnic studies	250	299	314	121	98	106	114	148	163	170	208	216	189	254	341	365	385	400
Economics	210	209	221	222	268	298	316	281	311	361	387	357	402	484	434	575	882	1,343
History of science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	6	1	4	1	1	3	0	1	3	30	8	9	2

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	5,812	6,549	6,911	6,835	6,594	6,729
Sociology	366	371	416	456	552	500	475	510	546	599	658	862	1,071	1,598	2,050	2,554	3,272	3,876
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	15,778	15,060	14,397	14,142	13,798	13,243
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	941,751	929,413	924,547	933,598	929,028	921,924
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	165,632	156,573	148,966	144,098	136,580	132,581
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	40,630	37,475	34,638	34,764	31,704	31,561
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	121,786	115,739	110,779	105,513	100,796	96,480
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	2,230	2,357	2,465	2,592	3,033	3,447
Other S&E technologies	65	120	62	85	293	355	610	781	851	721	668	856	986	1,002	1,084	1,229	1,047	1,093
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	1,009,430	998,339	995,410	1,006,203	998,456	993,636
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	83,187	84,211	86,261	88,653	86,661	90,050
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	5,177	5,693
Aerospace	1	0	0	0	0	0	1	0	0	0	2	0	3	0	0	3	0	0
Chemical	14	17	26	7	302	2	5	2	1	6	7	22	12	19	18	43	34	29
Civil	54	53	44	56	57	52	39	63	34	55	41	65	84	110	105	102	118	138
Electrical	277	271	181	668	896	682	529	452	416	227	228	189	198	193	305	334	345	376
Industrial	66	130	78	80	49	85	55	53	57	83	72	69	67	64	66	98	71	68
Materials	11	14	10	12	12	13	10	8	9	5	10	6	1	6	11	11	11	13
Mechanical	76	67	64	68	69	62	68	76	95	118	120	127	162	175	185	185	283	279
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	4,315	4,790
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	79,889	80,514	82,048	83,877	81,484	84,357
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	51,973	50,566	50,410	50,726	45,888	47,398
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	2,514	2,376	2,462	2,586	2,645	2,761
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	3,935	4,226	4,577	4,979	5,346	5,594
Earth, atmospheric, and ocean sciences	81	78	57	52	39	45	65	65	64	98	96	93	101	109	135	152	152	145
Atmospheric sciences	0	1	0	0	2	2	7	9	5	4	16	9	9	4	6	3	1	0
Earth sciences	27	34	27	34	23	23	38	38	36	59	52	49	65	67	95	111	118	143
Oceanography	54	43	30	18	14	20	20	18	23	35	28	35	27	38	34	38	33	2
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	42,143	40,117	39,143	38,476	32,719	33,645
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	40,700	38,384	37,098	35,874	29,845	30,402
Mathematics	642	654	650	689	755	747	699	798	810	888	990	1,570	1,443	1,733	2,045	2,602	2,874	3,243
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	5,026	5,253
Astronomy	1	1	2	2	1	3	4	2	1	4	3	1	4	4	9	4	6	12
Chemistry	269	174	196	238	266	285	279	336	377	399	383	431	500	607	683	803	814	873
Physics	163	164	172	175	184	185	131	160	137	174	242	251	307	370	495	715	884	965

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	3,322	3,403
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	27,916	29,948	31,638	33,151	35,596	36,959
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	4,676	6,056	7,449	8,621	10,500	11,158
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	23,240	23,892	24,189	24,530	25,096	25,801
Anthropology	49	78	82	76	93	119	111	113	150	148	187	228	337	324	384	434	653	724
Area and ethnic studies	234	278	299	115	95	104	110	148	161	164	196	205	185	249	331	361	373	394
Economics	192	182	201	191	230	266	287	262	279	326	338	312	344	431	382	510	741	1,150
History of science	0	0	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	9	2
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	5,766	6,483	6,858	6,778	6,507	6,640
Sociology	362	361	410	450	531	481	460	491	528	592	649	850	1,055	1,580	2,037	2,536	3,252	3,855
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	15,552	14,823	14,170	13,903	13,561	13,036
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	926,243	914,128	909,149	917,550	911,795	903,586
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	164,612	155,529	148,010	143,213	135,601	131,456
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	40,366	37,157	34,327	34,452	31,289	31,067
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	121,074	115,062	110,177	104,976	100,274	95,895
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	2,186	2,308	2,422	2,556	2,991	3,401
Other S&E technologies	65	120	62	85	293	355	610	781	851	721	668	856	986	1,002	1,084	1,229	1,047	1,093
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	148,629	156,071	166,346	181,156	196,579	209,579
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	12,375	14,526	16,963	19,046	21,328	23,928
Engineering	181	196	143	339	558	373	345	344	350	326	348	409	453	579	709	815	974	1,168
Aerospace	0	0	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	4	4
Civil	5	2	6	2	5	2	6	19	9	25	6	11	21	30	51	42	51	55
Electrical	48	57	14	195	320	199	171	110	124	64	51	45	36	42	65	68	78	85
Industrial	7	33	11	8	3	0	9	8	5	1	1	3	9	6	11	25	6	10
Materials	0	0	1	0	0	0	0	1	0	0	1	1	0	0	2	1	1	6
Mechanical	21	19	23	18	17	14	17	27	20	29	28	35	32	32	30	36	60	87
Other	97	85	86	116	124	158	140	179	192	206	261	311	354	464	546	641	774	921
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	11,922	13,947	16,254	18,231	20,354	22,760
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	6,130	6,789	7,492	8,078	7,869	8,765
Agricultural sciences	77	109	86	68	54	43	58	59	47	44	63	67	91	108	115	158	180	182
Biological sciences	186	222	189	218	208	229	279	352	377	438	522	649	947	1,072	1,258	1,463	1,619	1,832
Earth, atmospheric, and ocean sciences	1	3	1	1	2	5	3	3	1	4	7	3	12	13	13	18	28	34
Atmospheric sciences	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Earth sciences	1	3	1	1	1	4	1	2	1	3	7	3	12	12	11	17	28	34
Oceanography	0	0	0	0	1	1	2	0	0	1	0	0	0	1	2	1	0	0
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	4,482	4,922	5,251	5,382	4,779	5,389
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	4,084	4,450	4,574	4,601	3,771	4,258
Mathematics	97	100	105	124	131	154	155	171	168	198	244	341	398	472	677	781	1,008	1,131
Physical sciences	172	161	151	145	161	174	158	207	219	261	328	401	598	674	855	1,057	1,263	1,328
Astronomy	1	0	0	2	0	0	0	0	0	1	3	0	0	1	3	2	1	4
Chemistry	42	27	24	42	37	48	40	56	62	61	60	74	117	140	181	208	216	214
Physics	76	70	68	59	50	61	30	34	31	45	92	75	102	127	169	242	363	366
Other physical sciences	53	64	59	42	74	65	88	117	126	154	173	252	379	406	502	605	683	744
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	5,792	7,158	8,762	10,153	12,485	13,995
Psychology	193	222	260	298	338	384	366	447	492	678	942	944	1,364	1,930	2,648	3,379	4,534	4,968
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	4,428	5,228	6,114	6,774	7,951	9,027
Anthropology	8	11	13	16	17	14	11	15	29	24	29	49	93	95	108	131	231	274
Area and ethnic studies	17	7	15	24	12	20	18	28	29	31	39	41	45	60	84	78	94	110
Economics	50	43	55	50	58	65	60	58	55	84	85	82	102	132	142	172	241	355
History of science	0	0	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	1	0
Political science and public administration	249	195	219	250	223	241	259	287	280	308	358	574	686	816	1,026	1,189	1,216	1,557
Sociology	63	79	92	109	124	123	123	138	167	160	207	270	390	616	947	1,267	1,768	2,245
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	4,400	4,486
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	136,254	141,545	149,383	162,110	175,251	185,651
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	21,206	21,059	20,979	21,482	21,544	22,058
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	5,152	4,850	4,514	4,676	4,360	4,435
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	15,664	15,736	15,964	16,182	16,449	16,745
Science technologies	107	133	118	114	119	139	138	167	162	160	218	235	291	350	356	451	604	740
Other S&E technologies	13	16	3	11	30	35	50	76	76	80	66	105	99	123	145	173	131	138
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	860,801	842,268	829,064	825,047	801,877	784,057
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	70,812	69,685	69,298	69,607	65,333	66,122
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	4,203	4,525
Aerospace	1	0	0	0	0	0	1	0	0	0	2	0	3	0	0	3	0	0
Chemical	11	17	24	7	213	2	3	2	1	5	7	19	11	14	14	41	30	25
Civil	49	51	38	54	52	50	33	44	25	30	35	54	63	80	54	60	67	83
Electrical	229	214	167	473	576	483	358	342	292	163	177	144	162	151	240	266	267	291
Industrial	59	97	67	72	46	85	46	45	52	82	71	66	58	58	55	73	65	58

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Materials	11	14	9	12	12	13	10	7	9	5	9	5	1	6	9	10	10	7
Mechanical	55	48	41	50	52	48	51	49	75	89	92	92	130	143	155	149	223	192
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	3,541	3,869
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	67,967	66,567	65,794	65,646	61,130	61,597
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	45,843	43,777	42,918	42,648	38,019	38,633
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	2,423	2,268	2,347	2,428	2,465	2,579
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	2,988	3,154	3,319	3,516	3,727	3,762
Earth, atmospheric, and ocean sciences	80	75	56	51	37	40	62	62	63	94	89	90	89	96	122	134	124	111
Atmospheric sciences	0	1	0	0	2	2	7	8	5	4	16	9	9	4	6	3	1	0
Earth sciences	26	31	26	33	22	19	37	36	35	56	45	46	53	55	84	94	90	109
Oceanography	54	43	30	18	13	19	18	18	23	34	28	35	27	37	32	37	33	2
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	37,661	35,195	33,892	33,094	27,940	28,256
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	36,616	33,934	32,524	31,273	26,074	26,144
Mathematics	545	554	545	565	624	593	544	627	642	690	746	1,229	1,045	1,261	1,368	1,821	1,866	2,112
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	3,763	3,925
Astronomy	0	1	2	0	1	3	4	2	1	3	0	1	4	3	6	2	5	8
Chemistry	227	147	172	196	229	237	239	280	315	338	323	357	383	467	502	595	598	659
Physics	87	94	104	116	134	124	101	126	106	129	150	176	205	243	326	473	521	599
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	2,639	2,659
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	22,124	22,790	22,876	22,998	23,111	22,964
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	3,312	4,126	4,801	5,242	5,966	6,190
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	18,812	18,664	18,075	17,756	17,145	16,774
Anthropology	41	67	69	60	76	105	100	98	121	124	158	179	244	229	276	303	422	450
Area and ethnic studies	217	271	284	91	83	84	92	120	132	133	157	164	140	189	247	283	279	284
Economics	142	139	146	141	172	201	227	204	224	242	253	230	242	299	240	338	500	795
History of science	0	0	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	8	2
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	5,080	5,667	5,832	5,589	5,291	5,083
Sociology	299	282	318	341	407	358	337	353	361	432	442	580	665	964	1,090	1,269	1,484	1,610
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	12,440	11,315	10,370	9,969	9,161	8,550
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	789,989	772,583	759,766	755,440	736,544	717,935
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	143,406	134,470	127,031	121,731	114,057	109,398
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	35,214	32,307	29,813	29,776	26,929	26,632
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	105,410	99,326	94,213	88,794	83,825	79,150
Science technologies	1,044	1,037	898	968	993	1,087	1,066	1,233	1,257	1,287	1,557	1,711	1,895	1,958	2,066	2,105	2,387	2,661
Other S&E technologies	52	104	59	74	263	320	560	705	775	641	602	751	887	879	939	1,056	916	955

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	9,932	9,930	9,780	9,517	9,095	8,935
S&E	608	605	703	811	825	839	801	851	870	835	909	1,051	1,048	1,096	1,117	1,077	961	942
Engineering	17	18	17	24	41	38	26	34	29	20	21	42	29	45	38	36	33	50
Aerospace	0	0	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	1	0
Civil	2	1	1	1	4	2	0	0	1	2	0	0	0	2	3	0	2	1
Electrical	0	2	2	5	7	11	2	4	4	1	0	1	1	0	1	2	0	2
Industrial	0	0	0	2	0	2	0	0	0	2	1	2	0	0	0	1	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
Mechanical	0	1	0	0	0	0	0	0	1	0	1	0	0	2	0	1	1	1
Other	15	14	14	16	21	23	24	30	23	15	19	39	28	40	33	30	29	46
Science	591	587	686	787	784	801	775	817	841	815	888	1,009	1,019	1,051	1,079	1,041	928	892
Natural sciences	384	417	444	546	524	504	498	446	474	459	531	509	545	582	601	537	478	453
Agricultural sciences	74	53	55	70	65	68	72	56	64	64	125	66	75	75	98	96	76	67
Biological sciences	39	33	43	27	47	44	65	55	59	52	54	46	67	79	69	64	61	68
Earth, atmospheric, and ocean sciences	0	0	0	1	0	0	0	1	1	2	0	0	3	2	5	6	6	4
Atmospheric sciences	0	0	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	6	4
Oceanography	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0
Mathematics and computer sciences	258	314	329	431	388	365	335	305	313	304	315	350	359	376	380	313	291	271
Computer sciences	251	302	322	418	377	352	325	291	298	293	308	328	337	362	358	298	277	256
Mathematics	7	12	7	13	11	13	10	14	15	11	7	22	22	14	22	15	14	15
Physical sciences	13	17	17	17	24	27	26	29	37	37	37	47	41	50	49	58	44	43
Astronomy	0	0	0	0	0	1	0	0	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	3	3
Physics	0	2	0	3	0	2	1	5	3	2	0	2	2	2	3	4	2	3
Other physical sciences	12	11	13	12	22	21	19	22	31	33	35	42	35	43	41	50	39	37
Social and behavioral sciences	207	170	242	241	260	297	277	371	367	356	357	500	474	469	478	504	450	439
Psychology	38	34	32	31	36	56	41	73	67	71	95	81	88	85	103	124	126	114
Social sciences	169	136	210	210	224	241	236	298	300	285	262	419	386	384	375	380	324	325
Anthropology	1	2	0	1	0	2	3	3	1	3	3	5	7	4	3	5	5	8
Area and ethnic studies	32	23	30	48	42	30	52	67	75	78	75	86	69	71	84	85	82	63
Economics	2	1	3	2	1	1	0	2	0	1	2	2	6	1	1	3	0	1
History of science	0	0	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	0	0

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Political science and public administration	21	5	10	22	35	34	37	48	43	40	36	74	70	87	69	78	82	67
Sociology	1	4	4	6	5	17	10	20	9	11	6	7	16	23	29	25	20	30
Other social sciences	112	101	163	131	141	157	134	158	172	152	140	245	218	198	189	184	135	156
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	8,884	8,834	8,663	8,440	8,134	7,993
S&E technologies	790	734	684	799	940	952	1,003	1,001	1,077	1,162	1,154	1,288	1,435	1,472	1,337	1,302	1,243	1,154
Engineering technologies	367	299	295	366	415	330	313	289	315	355	340	399	377	424	363	388	320	298
Health technologies	414	424	385	423	516	610	681	695	741	786	799	867	1,034	1,022	955	886	887	820
Science technologies	9	9	4	10	6	7	6	10	13	13	5	14	17	18	14	13	22	25
Other S&E technologies	0	2	0	0	3	5	3	7	8	8	10	8	7	8	5	15	14	11
Asian																		
All fields	na	na	na	na	na	na	na	na	na	na	na	38,472	41,688	43,041	44,170	46,155	48,525	50,916
S&E	na	na	na	na	na	na	na	na	na	na	na	3,952	4,474	5,235	5,466	6,206	6,741	7,452
Engineering	na	na	na	na	na	na	na	na	na	na	na	199	272	291	357	405	448	562
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	2	3	3	0	4	6	1
Civil	na	na	na	na	na	na	na	na	na	na	na	3	5	4	5	10	7	6
Electrical	na	na	na	na	na	na	na	na	na	na	na	11	19	16	29	29	31	37
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	2	1	0	3	0	1
Materials	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Mechanical	na	na	na	na	na	na	na	na	na	na	na	12	12	22	18	12	19	26
Other	na	na	na	na	na	na	na	na	na	na	na	171	231	245	305	347	385	491
Science	na	na	na	na	na	na	na	na	na	na	na	3,753	4,202	4,944	5,109	5,801	6,293	6,890
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	2,457	2,738	3,078	3,209	3,607	3,760	4,200
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	13	18	23	22	26	17	20
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	405	471	499	522	542	591	654
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	4	6	1	1	5	4	4
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	4	4	1	1	5	4	4
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	2	0	0	0	0	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	1,662	1,782	2,048	2,087	2,335	2,438	2,770
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	1,438	1,585	1,770	1,777	1,907	1,963	2,165
Mathematics	na	na	na	na	na	na	na	na	na	na	na	224	197	278	310	428	475	605
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	373	461	507	577	699	710	752
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	1	1	0	1	1
Chemistry	na	na	na	na	na	na	na	na	na	na	na	104	131	132	159	170	164	178
Physics	na	na	na	na	na	na	na	na	na	na	na	21	44	59	88	127	134	160

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	248	286	315	329	402	411	413
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	2,533	2,690
Psychology	na	na	na	na	na	na	na	na	na	na	na	174	243	364	480	562	715	824
Social sciences	na	na	na	na	na	na	na	na	na	na	na	1,122	1,221	1,502	1,420	1,632	1,818	1,866
Anthropology	na	na	na	na	na	na	na	na	na	na	na	15	16	19	22	24	32	44
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	3	10	10	13	10	10	18
Economics	na	na	na	na	na	na	na	na	na	na	na	39	49	55	36	76	142	220
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	1	4	2	3	1
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	78	83	137	122	166	212	200
Sociology	na	na	na	na	na	na	na	na	na	na	na	58	56	115	154	171	251	270
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	929	1,007	1,165	1,069	1,183	1,168	1,113
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	34,520	37,214	37,806	38,704	39,949	41,784	43,464
S&E technologies	na	na	na	na	na	na	na	na	na	na	na	4,798	5,645	5,446	5,515	5,385	5,221	5,347
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	1,007	994	1,023	966	1,040	884	900
Health technologies	na	na	na	na	na	na	na	na	na	na	na	3,665	4,486	4,273	4,392	4,137	4,101	4,184
Science technologies	na	na	na	na	na	na	na	na	na	na	na	87	121	113	131	169	197	221
Other S&E technologies	na	na	na	na	na	na	na	na	na	na	na	39	44	37	26	39	39	42
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	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	na	na
Engineering	160	132	101	142	169	147	132	175	140	177	216	na	na	na	na	na	na	na
Aerospace	0	0	0	0	0	0	0	0	0	0	0	na	na	na	na	na	na	na
Chemical	0	0	2	1	8	0	0	0	0	0	0	na	na	na	na	na	na	na
Civil	3	4	5	6	2	1	1	2	2	5	6	na	na	na	na	na	na	na
Electrical	38	18	5	36	40	14	10	59	10	7	15	na	na	na	na	na	na	na
Industrial	0	2	0	0	1	2	1	3	1	3	5	na	na	na	na	na	na	na
Materials	0	0	0	0	0	0	0	0	0	0	0	na	na	na	na	na	na	na
Mechanical	2	0	0	2	0	1	3	3	3	6	7	na	na	na	na	na	na	na
Other	117	108	89	97	118	129	117	108	124	156	183	na	na	na	na	na	na	na
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	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	na	na
Agricultural sciences	19	9	10	9	18	12	10	21	20	24	24	na	na	na	na	na	na	na
Biological sciences	109	94	93	143	148	204	224	257	319	337	340	na	na	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	na	na
Atmospheric sciences	0	0	0	0	0	0	0	0	0	0	0	na	na	na	na	na	na	na

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Earth sciences	1	0	0	1	0	0	1	0	0	5	1	na	na	na	na	na	na	na
Oceanography	0	0	0	0	0	0	0	0	0	1	0	na	na	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	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	na	na
Mathematics	90	106	91	102	100	97	85	78	118	130	138	na	na	na	na	na	na	na
Physical sciences	145	81	86	105	190	175	208	254	273	282	284	na	na	na	na	na	na	na
Astronomy	0	0	0	0	1	0	0	0	0	1	0	na	na	na	na	na	na	na
Chemistry	51	29	15	35	43	45	45	80	89	97	89	na	na	na	na	na	na	na
Physics	15	9	18	17	26	21	20	16	19	17	18	na	na	na	na	na	na	na
Other physical sciences	79	43	53	53	120	109	143	158	165	167	177	na	na	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	na	na
Psychology	51	54	51	75	76	74	79	92	113	159	227	na	na	na	na	na	na	na
Social sciences	428	379	427	426	494	549	556	626	689	802	955	na	na	na	na	na	na	na
Anthropology	1	5	0	4	2	9	1	12	6	12	7	na	na	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	na	na
Economics	41	32	36	29	27	47	41	35	38	60	49	na	na	na	na	na	na	na
History of science	0	0	0	0	0	0	0	0	0	0	0	na	na	na	na	na	na	na
Linguistics	0	0	0	0	0	1	0	2	0	0	0	na	na	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	na	na
Sociology	24	12	12	18	26	31	28	46	33	54	40	na	na	na	na	na	na	na
Other social sciences	270	253	309	321	338	356	389	461	545	596	773	na	na	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	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	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	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	na	na
Science technologies	44	35	28	32	40	60	55	96	85	79	86	na	na	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	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	131,310	127,770	127,067	131,171	128,307	125,139
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	10,156	10,564	10,899	11,101	9,593	9,598
Engineering	131	117	134	217	289	288	215	190	227	169	165	183	236	244	308	322	408	395
Aerospace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	0	14	0	0	0	0	0	1	1	0	3	1	1	1	3
Civil	5	3	3	2	8	9	3	5	2	7	3	4	2	4	6	6	10	10
Electrical	27	30	32	121	161	146	97	79	96	32	16	23	17	17	44	52	59	49
Industrial	1	3	3	3	2	2	2	3	3	5	0	3	3	3	0	7	6	3

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Materials	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Mechanical	0	0	1	0	0	0	1	0	4	2	3	1	4	3	7	4	12	8
Other	98	81	94	90	104	131	112	103	121	123	142	151	210	214	250	252	320	322
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	9,920	10,320	10,591	10,779	9,185	9,203
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	6,210	6,529	6,564	6,632	4,973	4,951
Agricultural sciences	20	4	14	13	19	8	18	28	18	17	25	12	25	20	34	30	28	32
Biological sciences	139	131	138	145	135	142	185	207	172	183	243	272	327	363	376	431	458	473
Earth, atmospheric, and ocean sciences	0	0	1	1	0	1	4	0	2	0	1	2	0	1	2	2	3	1
Atmospheric sciences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Earth sciences	0	0	0	1	0	1	1	0	2	0	1	2	0	1	2	2	2	1
Oceanography	0	0	1	0	0	0	3	0	0	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	5,465	5,723	5,730	5,767	4,019	3,930
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	5,404	5,653	5,670	5,678	3,918	3,824
Mathematics	38	50	27	41	36	35	35	44	43	35	48	91	61	70	60	89	101	106
Physical sciences	85	80	77	63	75	79	97	100	101	116	126	362	393	422	422	402	465	515
Astronomy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Chemistry	17	12	9	15	15	22	16	17	15	22	15	13	17	29	18	32	30	42
Physics	2	1	1	6	5	3	5	4	7	3	11	20	9	8	10	15	17	19
Other physical sciences	66	67	67	42	55	54	76	79	79	91	100	329	367	385	394	355	417	454
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	3,710	3,791	4,027	4,147	4,212	4,252
Psychology	136	144	141	146	158	173	198	203	214	370	730	314	416	457	587	698	831	842
Social sciences	865	804	855	936	1,008	1,046	1,130	1,130	1,116	1,391	1,700	3,027	3,294	3,334	3,440	3,449	3,381	3,410
Anthropology	3	1	1	1	0	6	3	2	0	4	3	5	6	8	7	16	14	14
Area and ethnic studies	16	7	13	24	17	23	19	15	26	25	37	22	18	27	39	31	42	44
Economics	7	5	9	9	19	14	22	23	21	22	27	18	10	18	19	12	28	40
History of science	0	0	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	1	0
Political science and public administration	276	254	248	292	312	350	449	449	395	434	531	1,069	1,403	1,544	1,699	1,588	1,602	1,602
Sociology	55	66	73	77	100	76	67	67	64	90	79	108	143	176	176	236	275	279
Other social sciences	508	471	511	533	560	577	570	574	610	816	1,023	1,805	1,714	1,561	1,498	1,566	1,419	1,431
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	121,154	117,206	116,168	120,070	118,714	115,541
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	22,629	21,235	19,018	19,724	18,309	17,706
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	4,308	4,392	3,943	4,282	3,324	3,155
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	17,928	16,483	14,660	14,996	14,475	14,010
Science technologies	147	163	119	134	136	128	151	142	160	175	217	222	247	249	266	276	355	400
Other S&E technologies	27	57	27	31	67	80	105	100	151	78	65	92	146	111	149	170	155	141

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Native Hawaiian or Other Pacific Islander																		
All fields	na	na	na	na	na	na	na	na	na	na	na	4,749	4,421	4,422	4,326	4,103	3,907	3,893
S&E	na	na	na	na	na	na	na	na	na	na	na	496	506	533	428	435	389	410
Engineering	na	na	na	na	na	na	na	na	na	na	na	21	23	20	21	16	17	12
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Civil	na	na	na	na	na	na	na	na	na	na	na	0	2	0	0	0	0	0
Electrical	na	na	na	na	na	na	na	na	na	na	na	2	2	2	3	3	3	6
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	1
Materials	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Mechanical	na	na	na	na	na	na	na	na	na	na	na	0	2	0	0	1	2	0
Other	na	na	na	na	na	na	na	na	na	na	na	19	17	18	18	12	12	5
Science	na	na	na	na	na	na	na	na	na	na	na	475	483	513	407	419	372	398
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	236	255	268	251	239	197	219
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	15	23	27	25	27	31	33
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	52	25	31	29	34	29	25
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1	0	0
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1	0	0
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	148	195	193	177	159	113	143
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	146	190	190	174	153	106	129
Mathematics	na	na	na	na	na	na	na	na	na	na	na	2	5	3	3	6	7	14
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	21	12	17	20	18	24	18
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	1	3	0	3	3	2	1
Physics	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	4	2	1
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	20	9	17	17	11	20	16
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	239	228	245	156	180	175	179
Psychology	na	na	na	na	na	na	na	na	na	na	na	18	19	31	23	20	41	46
Social sciences	na	na	na	na	na	na	na	na	na	na	na	221	209	214	133	160	134	133
Anthropology	na	na	na	na	na	na	na	na	na	na	na	1	2	1	0	2	3	2
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	1	3	11	17	15	19	11
Economics	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	3	3	6
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0	0	0

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	26	24	29	13	23	15	27
Sociology	na	na	na	na	na	na	na	na	na	na	na	6	10	10	11	7	17	14
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	187	170	163	90	110	77	73
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	4,253	3,915	3,889	3,898	3,668	3,518	3,483
S&E technologies	na	na	na	na	na	na	na	na	na	na	na	576	539	569	534	483	497	474
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	102	102	130	95	95	108	122
Health technologies	na	na	na	na	na	na	na	na	na	na	na	459	416	430	427	368	372	339
Science technologies	na	na	na	na	na	na	na	na	na	na	na	8	11	6	5	7	12	6
Other S&E technologies	na	na	na	na	na	na	na	na	na	na	na	7	10	3	7	13	5	7
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	586,478	580,945	568,298	561,723	542,660	530,746
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	43,665	44,789	44,307	44,059	40,883	41,574
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	2,914	3,134
Aerospace	1	0	0	0	0	0	1	0	0	0	2	0	2	0	0	1	0	0
Chemical	11	17	22	6	175	2	3	2	1	4	5	14	8	8	11	26	18	17
Civil	31	40	25	43	35	35	26	35	17	16	25	45	50	64	37	42	44	62
Electrical	157	159	123	288	337	287	196	180	168	115	133	94	100	106	142	161	143	173
Industrial	58	92	59	66	43	79	42	38	46	71	64	49	50	45	52	54	50	50
Materials	8	12	8	11	12	13	10	7	8	5	8	5	1	5	9	9	10	6
Mechanical	52	46	40	48	50	43	47	45	60	79	77	69	96	99	118	110	161	133
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	2,488	2,693
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	41,597	42,523	41,800	41,197	37,969	38,440
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	29,219	29,160	28,269	27,928	25,076	25,490
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	2,157	1,995	2,051	2,113	2,163	2,281
Biological sciences	937	989	1,047	1,132	1,084	1,219	1,115	1,178	1,260	1,300	1,432	1,628	1,822	1,886	2,015	2,158	2,267	2,211
Earth, atmospheric, and ocean sciences	76	73	54	48	35	39	52	59	57	82	87	80	76	87	108	112	106	94
Atmospheric sciences	0	1	0	0	2	2	7	8	5	4	16	8	9	4	6	3	0	0
Earth sciences	24	30	25	31	21	18	32	33	30	47	43	37	42	49	71	74	76	92
Oceanography	52	42	29	17	12	19	13	18	22	31	28	35	25	34	31	35	30	2
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	23,656	23,468	22,263	21,615	18,462	18,713
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	22,991	22,697	21,420	20,509	17,384	17,512
Mathematics	382	361	384	374	438	411	378	425	401	462	467	691	665	771	843	1,106	1,078	1,201
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	2,078	2,191
Astronomy	0	1	2	0	0	2	4	1	1	2	0	1	4	1	4	2	3	7
Chemistry	144	98	133	128	153	158	158	156	184	170	183	200	187	245	260	328	333	371
Physics	65	72	77	80	89	92	66	86	67	90	100	112	125	146	189	271	309	368

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Other physical sciences	590	582	679	480	674	700	731	835	763	819	922	1,034	1,192	1,332	1,379	1,329	1,433	1,445
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	12,378	13,363	13,531	13,269	12,893	12,950
Psychology	959	1,012	1,121	1,121	1,152	1,130	1,148	1,268	1,355	2,165	3,493	2,003	2,173	2,681	3,119	3,236	3,586	3,672
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	10,205	10,682	10,412	10,033	9,307	9,278
Anthropology	32	51	63	44	62	75	79	64	96	85	117	130	182	166	201	226	306	332
Area and ethnic studies	59	209	211	16	15	17	16	26	23	14	31	40	28	46	63	89	77	96
Economics	81	92	88	85	102	116	142	124	146	131	140	143	151	190	157	222	277	460
History of science	0	0	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	4	1
Political science and public administration	371	353	338	497	650	761	812	813	862	836	881	2,041	2,368	3,144	3,295	3,133	2,763	2,755
Sociology	203	187	210	219	235	201	202	196	217	240	253	332	360	542	571	675	763	837
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	5,117	4,797
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	542,813	536,156	523,991	517,664	501,777	489,172
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	96,719	92,913	87,297	84,261	79,674	76,938
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	24,359	23,623	21,869	21,591	20,144	20,302
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	70,326	67,199	63,276	60,426	57,247	54,118
Science technologies	833	814	728	766	780	858	829	938	933	960	1,175	1,288	1,400	1,435	1,497	1,492	1,650	1,830
Other S&E technologies	23	42	32	41	160	196	373	508	531	474	465	553	634	656	655	752	633	688
More than one race ^c																		
All fields	na	na	na	na	na	na	na	na	na	na	na	10,487	13,726	18,278	21,431	24,290	27,732	28,570
S&E	na	na	na	na	na	na	na	na	na	na	na	726	1,110	1,800	2,154	2,549	3,087	3,110
Engineering	na	na	na	na	na	na	na	na	na	na	na	25	26	58	90	101	149	148
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	1	0	0	0	0	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	4	0	1
Civil	na	na	na	na	na	na	na	na	na	na	na	1	1	2	2	0	1	2
Electrical	na	na	na	na	na	na	na	na	na	na	na	0	0	4	3	8	9	9
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	2	0	0
Materials	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Mechanical	na	na	na	na	na	na	na	na	na	na	na	4	6	6	5	3	8	11
Other	na	na	na	na	na	na	na	na	na	na	na	20	18	46	78	84	131	125
Science	na	na	na	na	na	na	na	na	na	na	na	701	1,084	1,742	2,064	2,448	2,938	2,962
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	421	590	916	1,061	1,256	1,405	1,481
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	21	26	34	40	48	68	69
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	34	55	91	94	129	153	192
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	2	0	2	2	3	2	2
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	2	0	2	1	1	1	2
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	2	1	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	321	442	677	790	904	983	1,014
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	300	422	628	738	810	874	895
Mathematics	na	na	na	na	na	na	na	na	na	na	na	21	20	49	52	94	109	119
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	43	67	112	135	172	199	204
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	4	10	18	22	29	33	42
Physics	na	na	na	na	na	na	na	na	na	na	na	1	5	10	14	31	44	37
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	38	52	84	99	112	122	125
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	280	494	826	1,003	1,192	1,533	1,481
Psychology	na	na	na	na	na	na	na	na	na	na	na	53	85	169	226	333	371	436
Social sciences	na	na	na	na	na	na	na	na	na	na	na	227	409	657	777	859	1,162	1,045
Anthropology	na	na	na	na	na	na	na	na	na	na	na	5	10	16	25	16	39	36
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	3	4	14	24	43	43	36
Economics	na	na	na	na	na	na	na	na	na	na	na	4	4	13	6	10	33	43
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0	0	0
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	37	63	122	145	176	245	203
Sociology	na	na	na	na	na	na	na	na	na	na	na	15	24	39	77	96	103	119
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	163	304	453	499	518	699	608
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	9,761	12,616	16,478	19,277	21,741	24,645	25,460
S&E technologies	na	na	na	na	na	na	na	na	na	na	na	1,412	1,926	2,479	2,617	2,791	3,181	3,131
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	329	384	643	698	712	731	742
Health technologies	na	na	na	na	na	na	na	na	na	na	na	1,053	1,492	1,752	1,783	1,980	2,324	2,250
Science technologies	na	na	na	na	na	na	na	na	na	na	na	17	30	64	78	63	79	95
Other S&E technologies	na	na	na	na	na	na	na	na	na	na	na	13	20	20	58	36	47	44
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	73,246	57,882	53,992	48,088	41,651	35,858
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	9,853	5,668	4,927	4,180	3,679	3,036
Engineering	60	60	64	88	99	101	132	120	115	104	143	134	191	194	183	219	234	224
Aerospace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Chemical	0	0	0	0	7	0	0	0	0	1	1	2	0	0	0	5	4	3
Civil	8	3	4	2	3	3	3	2	3	0	1	1	3	4	1	2	3	2
Electrical	7	5	5	23	31	25	53	20	14	8	13	13	23	6	18	11	22	15
Industrial	0	0	5	1	0	0	1	1	2	1	1	12	3	9	2	6	9	3

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Materials	3	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Mechanical	1	1	0	0	2	4	0	1	7	2	4	6	10	11	7	18	20	13
Other	41	49	50	62	56	69	75	96	89	92	122	100	152	164	155	175	176	187
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	9,662	5,474	4,744	3,961	3,445	2,812
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	6,286	3,244	2,963	2,449	2,130	1,839
Agricultural sciences	22	45	59	52	72	46	48	62	40	79	84	96	99	94	77	88	82	77
Biological sciences	47	32	37	72	74	83	96	114	109	164	182	262	221	205	214	158	168	139
Earth, atmospheric, and ocean sciences	3	2	1	0	2	0	5	2	3	4	0	2	4	3	4	5	3	6
Atmospheric sciences	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Earth sciences	1	1	1	0	1	0	3	2	3	2	0	1	4	1	4	5	1	6
Oceanography	2	1	0	0	1	0	2	0	0	2	0	0	0	2	0	0	2	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	5,762	2,710	2,465	2,001	1,634	1,415
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	5,687	2,634	2,387	1,918	1,552	1,363
Mathematics	28	25	36	35	39	37	36	66	65	52	86	178	75	76	78	83	82	52
Physical sciences	68	60	77	63	122	91	95	173	132	158	158	216	200	232	203	197	243	202
Astronomy	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Chemistry	14	4	11	16	16	9	14	25	24	47	34	32	31	38	35	29	33	22
Physics	5	10	8	10	14	6	9	15	10	17	21	20	20	18	22	21	13	11
Other physical sciences	49	46	58	37	92	76	72	132	98	94	103	164	149	175	145	147	197	169
Social and behavioral sciences	391	326	341	369	472	465	527	629	682	1,260	2,041	2,865	3,376	2,230	1,781	1,512	1,315	973
Psychology	55	62	63	71	83	87	90	109	141	454	1,014	223	288	339	263	269	296	256
Social sciences	336	264	278	298	389	378	437	520	541	806	1,027	2,642	3,088	1,891	1,518	1,243	1,019	717
Anthropology	4	8	5	10	12	13	14	17	18	20	28	18	21	15	18	14	23	14
Area and ethnic studies	107	26	28	0	8	3	2	6	6	6	8	9	8	10	7	10	6	16
Economics	11	9	10	16	23	23	22	20	19	28	35	24	22	22	20	12	17	25
History of science	0	0	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	0	0
Political science and public administration	15	21	32	37	59	73	72	106	78	124	146	659	1,069	604	489	425	372	229
Sociology	16	13	19	21	41	33	30	24	38	37	64	54	56	59	72	59	55	61
Other social sciences	183	187	184	214	246	233	296	346	382	591	746	1,878	1,912	1,181	908	723	546	372
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	63,393	52,214	49,065	43,908	37,972	32,822
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	14,513	10,356	10,713	7,785	5,932	4,648
Engineering technologies	982	971	1,506	1,952	2,035	1,283	1,193	1,093	1,311	1,639	1,759	2,499	4,690	2,072	1,879	1,668	1,418	1,113
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	9,728	8,167	8,720	6,001	4,419	3,429
Science technologies	11	16	19	26	31	34	25	47	66	60	74	75	69	73	75	85	72	84
Other S&E technologies	0	0	0	0	25	31	41	44	43	47	36	39	26	44	39	31	23	22

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	17,106	16,872	17,113	17,984	19,404	20,938
S&E	849	1,155	1,416	1,615	1,621	1,352	1,099	895	954	1,156	1,300	1,521	1,598	1,587	1,715	1,936	2,171	2,600
Engineering	68	97	57	81	118	122	87	93	89	149	151	184	239	174	196	228	237	355
Aerospace	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
Chemical	2	1	2	0	3	0	2	1	0	4	2	9	1	3	3	7	4	13
Civil	4	0	2	6	1	0	4	1	3	7	6	6	9	11	5	1	8	9
Electrical	3	38	1	4	14	9	2	7	6	15	8	10	11	9	14	12	19	13
Industrial	1	2	2	1	0	3	2	3	0	0	0	0	0	0	0	1	1	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mechanical	1	0	1	1	1	2	0	1	5	3	17	12	15	9	28	24	24	37
Other	57	56	49	69	99	108	76	80	75	120	118	147	203	141	146	183	180	283
Science	781	1,058	1,359	1,534	1,503	1,230	1,012	802	865	1,007	1,149	1,337	1,359	1,413	1,519	1,708	1,934	2,245
Natural sciences	630	877	1,188	1,339	1,274	1,019	831	626	672	775	846	986	970	969	1,081	1,203	1,329	1,603
Agricultural sciences	23	46	52	11	43	15	42	8	16	12	13	10	12	16	22	92	28	20
Biological sciences	27	35	30	49	57	58	64	61	83	72	108	92	93	114	112	92	115	143
Earth, atmospheric, and ocean sciences	1	4	1	0	2	0	2	4	3	0	3	2	2	3	1	1	0	6
Atmospheric sciences	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
Earth sciences	1	4	1	0	2	0	2	3	3	0	3	1	2	3	1	1	0	6
Oceanography	0	0	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	576	582	640	642	822	988
Computer sciences	491	717	1,025	1,175	1,039	769	542	419	393	483	495	549	490	513	545	547	667	777
Mathematics	33	42	36	46	47	60	54	29	45	42	61	75	86	69	95	95	155	211
Physical sciences	55	33	44	58	86	117	127	105	132	166	166	258	287	254	306	376	364	446
Astronomy	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0
Chemistry	32	9	5	13	13	19	19	18	10	23	21	28	33	19	21	25	20	35
Physics	8	3	5	16	9	11	12	4	14	10	6	9	11	8	21	23	26	41
Other physical sciences	15	21	34	29	64	87	96	83	107	133	139	221	243	227	264	327	317	370
Social and behavioral sciences	151	181	171	195	229	211	181	176	193	232	303	351	389	444	438	505	605	642
Psychology	22	25	36	43	44	38	22	21	30	52	81	56	37	62	80	115	102	124
Social sciences	129	156	135	152	185	173	159	155	163	180	222	295	352	382	358	390	503	518
Anthropology	3	2	1	0	2	1	3	4	3	1	4	3	2	2	0	7	6	2
Area and ethnic studies	16	21	15	6	3	2	4	0	2	6	12	11	4	5	10	4	12	6
Economics	18	27	20	31	38	32	29	19	32	35	49	45	58	53	52	65	141	193
History of science	0	0	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	0	0

TABLE S2-5

Associate's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Political science and public administration	12	14	11	10	23	13	26	21	23	19	20	34	46	66	53	57	87	89
Sociology	4	10	6	6	21	19	15	19	18	7	9	12	16	18	13	18	20	21
Other social sciences	76	82	82	99	98	102	82	92	85	112	127	190	226	237	227	239	237	207
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	15,508	15,285	15,398	16,048	17,233	18,338
S&E technologies	561	1,115	705	804	898	873	807	784	928	875	1,030	959	1,020	1,044	956	885	979	1,125
Engineering technologies	337	838	442	460	507	357	319	297	328	277	343	288	264	318	311	312	415	494
Health technologies	216	257	252	331	370	496	467	458	571	571	644	636	712	677	602	537	522	585
Science technologies	8	20	11	13	21	20	21	29	29	27	43	35	44	49	43	36	42	46
Other S&E technologies	0	0	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, Hispanic may be any race and race categories exclude Hispanic origin.

^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 people 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 Center for Science and Engineering Statistics, National Science Foundation, Integrated Data System (IDS).

TABLE S2-6

Bachelor's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	1,811,404	1,861,034	1,890,941	1,916,129	1,942,140	1,973,112
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	589,567	615,475	635,915	650,057	666,157	684,557
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	108,976	117,927
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	3,874	4,021
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	12,125	13,327
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	16,013	16,398
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	23,416	25,715
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	6,339	6,906
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	1,891	1,968
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	29,589	32,747
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	15,729	16,845
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	506,304	527,663	541,965	550,151	557,181	566,630
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	219,093	233,032	245,624	257,665	269,121	281,498
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	30,540	31,089
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	99,894	104,703	109,520	115,124	119,073	121,742
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	7,283	7,320
Atmospheric sciences	490	456	525	562	572	677	651	745	736	721	691	678	735	749	751	734	714	685
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	6,336	6,420
Oceanography	170	178	225	135	161	136	105	139	125	142	180	211	226	240	255	259	233	215
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	67,853	73,153	78,356	83,445	89,479	97,937
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	48,034	51,586	56,130	60,309	65,186	72,129
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	24,293	25,808
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	22,746	23,410
Astronomy	160	240	276	271	292	331	366	332	346	335	388	364	392	357	429	393	453	536
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	14,672	15,123
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	6,968	7,117
Other physical sciences	668	644	641	597	487	552	571	555	598	621	676	725	758	788	828	738	653	634
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	287,211	294,631	296,341	292,486	288,060	285,132
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	109,782	115,373	118,405	118,768	118,646	117,441
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	177,429	179,258	177,936	173,718	169,414	167,691
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	9,330	8,566
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	6,601	6,433
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	35,045	35,638
History of science	92	101	103	103	140	117	113	114	103	100	110	138	122	119	133	131	111	117
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	2,289	2,299

TABLE S2-6

Bachelor's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	60,801	60,244	59,260	56,814	54,822	54,875
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	28,520	27,929
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	35,350	36,527	35,655	33,826	32,696	31,834
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	1,221,837	1,245,559	1,255,026	1,266,072	1,275,983	1,288,555
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	17,832	18,388
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	772,597	794,852	809,453	820,426	829,783	842,623
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	291,890	305,777	318,015	327,122	335,274	346,087
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	86,182	92,554
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	3,323	3,466
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	8,465	9,258
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	11,818	11,959
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	20,484	22,410
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	4,485	4,809
Materials	704	667	648	674	595	624	737	753	878	807	844	819	954	1,018	1,101	1,214	1,355	1,376
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	25,583	28,077
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	10,669	11,199
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	224,608	234,899	242,691	247,273	249,092	253,533
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	118,567	126,982	134,324	140,610	145,917	152,509
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	13,606	13,784
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	40,678	42,732	44,811	46,554	47,008	46,819
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	4,490	4,471
Atmospheric sciences	376	324	374	386	369	436	432	483	473	486	455	461	472	500	493	469	478	418
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	3,911	3,958
Oceanography	87	88	120	66	75	68	36	59	63	79	93	108	120	121	133	150	101	95
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	50,566	54,647	58,701	62,660	66,955	73,382
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	39,283	42,377	45,986	49,446	52,964	58,327
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	13,991	15,055
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	13,858	14,053
Astronomy	106	145	160	161	169	188	235	200	226	189	248	228	239	229	259	249	313	360
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	7,552	7,651
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	5,621	5,663
Other physical sciences	363	359	330	345	271	324	328	339	331	347	395	396	419	449	466	444	372	379
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	106,041	107,917	108,367	106,663	103,175	101,024

TABLE S2-6

Bachelor's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	25,601	27,044	27,554	27,080	26,577	25,696
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	80,440	80,873	80,813	79,583	76,598	75,328
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	2,511	2,331
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	2,181	2,042
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	23,932	24,296
History of science	40	45	40	49	67	53	46	44	51	48	34	60	49	42	52	59	49	54
Linguistics	226	245	243	290	330	324	447	461	502	503	558	573	689	692	708	700	684	696
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	29,287	28,771	28,178	27,024	25,426	24,797
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	8,460	8,265
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	14,389	15,053	14,814	13,906	13,355	12,847
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	480,707	489,075	491,438	493,304	494,509	496,536
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	15,473	15,960
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	1,038,807	1,066,182	1,081,488	1,095,703	1,112,357	1,130,489
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	297,677	309,698	317,900	322,935	330,883	338,470
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	22,794	25,373
Aerospace	238	304	312	384	413	404	501	452	441	437	463	439	463	479	488	515	551	555
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	3,660	4,069
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	4,195	4,439
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	2,932	3,305
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	1,854	2,097
Materials	268	263	285	276	270	282	269	272	272	263	294	321	368	430	412	473	536	592
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	4,006	4,670
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	5,060	5,646
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	281,696	292,764	299,274	302,878	308,089	313,097
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	100,526	106,050	111,300	117,055	123,204	128,989
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	16,934	17,305
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	59,216	61,971	64,709	68,570	72,065	74,923
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	2,793	2,849
Atmospheric sciences	114	132	151	176	203	241	219	262	263	235	236	217	263	249	258	265	236	267
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	2,425	2,462
Oceanography	83	90	105	69	86	68	69	80	62	63	87	103	106	119	122	109	132	120
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	17,287	18,506	19,655	20,785	22,524	24,555
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	8,751	9,209	10,144	10,863	12,222	13,802

TABLE S2-6

Bachelor's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	10,302	10,753
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	8,888	9,357
Astronomy	54	95	116	110	123	143	131	132	120	146	140	136	153	128	170	144	140	176
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	7,120	7,472
Physics	724	755	824	837	907	900	945	1,024	988	925	1,015	1,001	1,062	1,162	1,186	1,219	1,347	1,454
Other physical sciences	305	285	311	252	216	228	243	216	267	274	281	329	339	339	362	294	281	255
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	181,170	186,714	187,974	185,823	184,885	184,108
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	84,181	88,329	90,851	91,688	92,069	91,745
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	96,989	98,385	97,123	94,135	92,816	92,363
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	6,819	6,235
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	4,420	4,391
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	11,113	11,342
History of science	52	56	63	54	73	64	67	70	52	52	76	78	73	77	81	72	62	63
Linguistics	490	512	604	624	717	729	754	879	1,003	975	1,124	1,235	1,420	1,492	1,517	1,575	1,605	1,603
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	31,514	31,473	31,082	29,790	29,396	30,078
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	20,060	19,664
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	20,961	21,474	20,841	19,920	19,341	18,987
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	741,130	756,484	763,588	772,768	781,474	792,019
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	2,359	2,428

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 Center for Science and Engineering Statistics, National Science Foundation, Integrated Data System (IDS).

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	1,811,404	1,861,034	1,890,941	1,916,129	1,942,140	1,973,112
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	589,567	615,475	635,915	650,057	666,157	684,557
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	108,976	117,927
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	3,874	4,021
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	12,125	13,327
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	16,013	16,398
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	23,416	25,715
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	6,339	6,906
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	1,891	1,968
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	29,589	32,747
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	15,729	16,845
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	506,304	527,663	541,965	550,151	557,181	566,630
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	219,093	233,032	245,624	257,665	269,121	281,498
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	30,540	31,089
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	99,894	104,703	109,520	115,124	119,073	121,742
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	7,283	7,320
Atmospheric sciences	490	456	525	562	572	677	651	745	736	721	691	678	735	749	751	734	714	685
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	6,336	6,420
Oceanography	170	178	225	135	161	136	105	139	125	142	180	211	226	240	255	259	233	215
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	67,853	73,153	78,356	83,445	89,479	97,937
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	48,034	51,586	56,130	60,309	65,186	72,129
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	24,293	25,808
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	22,746	23,410
Astronomy	160	240	276	271	292	331	366	332	346	335	388	364	392	357	429	393	453	536
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	14,672	15,123
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	6,968	7,117
Other physical sciences	668	644	641	597	487	552	571	555	598	621	676	725	758	788	828	738	653	634
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	287,211	294,631	296,341	292,486	288,060	285,132
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	109,782	115,373	118,405	118,768	118,646	117,441
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	177,429	179,258	177,936	173,718	169,414	167,691
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	9,330	8,566
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	6,601	6,433
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	35,045	35,638
History of science	92	101	103	103	140	117	113	114	103	100	110	138	122	119	133	131	111	117
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	2,289	2,299

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	60,801	60,244	59,260	56,814	54,822	54,875
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	28,520	27,929
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	35,350	36,527	35,655	33,826	32,696	31,834
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	1,221,837	1,245,559	1,255,026	1,266,072	1,275,983	1,288,555
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	17,832	18,388
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	1,751,821	1,796,133	1,821,458	1,840,490	1,857,833	1,881,684
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	565,685	588,952	606,611	617,418	629,003	642,843
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	98,859	106,118
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	3,574	3,724
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	10,793	11,788
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	14,705	14,894
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	20,596	22,622
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	5,454	5,883
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	1,669	1,727
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	27,374	29,824
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	14,694	15,656
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	488,753	507,887	520,217	526,067	530,144	536,725
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	210,516	223,434	235,251	246,079	255,644	265,714
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	29,877	30,375
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	97,024	101,663	106,601	112,089	115,673	118,051
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	7,040	7,066
Atmospheric sciences	482	454	519	554	569	667	646	736	731	713	685	673	726	733	736	721	699	668
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	6,118	6,187
Oceanography	165	177	221	134	159	131	99	137	124	142	178	211	223	237	251	259	223	211
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	63,601	68,379	72,834	76,942	81,625	88,310
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	45,672	49,204	53,311	56,940	61,100	66,988
Mathematics and statistics	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	20,525	21,322
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	21,429	21,912
Astronomy	156	227	260	256	282	311	353	319	330	322	375	348	384	345	401	377	424	500
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	13,852	14,230
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	6,527	6,567
Other physical sciences	644	616	622	583	445	501	529	500	538	576	642	689	726	754	795	705	626	615
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	278,237	284,453	284,966	279,988	274,500	271,011

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	107,776	113,144	115,945	116,211	115,750	114,384
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	170,461	171,309	169,021	163,777	158,750	156,627
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	9,190	8,430
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	6,324	6,128
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	28,655	29,074
History of science	91	98	101	100	140	116	110	110	102	99	109	137	121	117	130	129	108	115
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	2,177	2,178
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	59,128	58,442	57,410	54,821	52,750	52,713
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	27,899	27,228
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	34,737	35,799	34,806	32,859	31,647	30,761
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	1,186,136	1,207,181	1,214,847	1,223,072	1,228,830	1,238,841
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	16,831	17,119
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	176,719	194,919	211,710	226,900	245,081	258,195
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	58,165	65,726	73,179	79,203	86,279	91,550
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	11,337	12,613
Aerospace	67	92	97	110	121	139	153	172	172	194	232	217	279	288	345	396	420	411
Chemical	380	341	353	320	313	333	345	326	375	405	446	478	606	638	714	814	1,067	1,150
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	2,043	2,213
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	2,593	2,986
Industrial	391	356	372	365	332	364	391	337	326	428	431	463	540	543	605	646	699	777
Materials	38	34	33	50	52	59	58	40	58	48	57	50	91	81	104	99	141	124
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	3,098	3,551
Other	308	269	290	337	330	348	416	413	456	566	591	617	649	795	896	1,050	1,276	1,401
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	50,992	57,819	64,195	69,243	74,942	78,937
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	17,542	20,142	23,072	25,845	28,697	31,096
Agricultural sciences	635	607	662	686	673	710	651	776	997	969	999	1,236	1,407	1,815	1,983	2,236	2,570	2,791
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	14,571	15,361
Earth, atmospheric, and ocean sciences	125	157	136	119	131	151	143	135	192	221	246	265	323	390	495	539	640	685
Atmospheric sciences	9	15	10	10	13	20	20	18	30	42	31	29	36	33	56	46	39	46
Earth sciences	105	130	109	103	112	121	120	113	155	172	200	223	274	343	422	466	578	619
Oceanography	11	12	17	6	6	10	3	4	7	7	15	13	13	14	17	27	23	20
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	5,493	6,223	7,224	7,849	8,778	9,872

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	4,216	4,719	5,469	5,912	6,612	7,544
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	2,166	2,328
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	2,138	2,387
Astronomy	7	16	10	12	23	17	12	18	30	21	33	26	21	31	36	38	45	54
Chemistry	719	669	666	669	651	704	739	748	830	879	841	940	1,052	1,104	1,273	1,416	1,455	1,641
Physics	125	151	156	164	187	183	206	246	229	235	258	276	314	426	446	528	585	635
Other physical sciences	32	34	31	16	24	34	32	20	33	34	29	36	41	72	73	68	53	57
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	33,450	37,677	41,123	43,398	46,245	47,841
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	13,359	15,389	17,580	18,799	20,321	20,675
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	20,091	22,288	23,543	24,599	25,924	27,166
Anthropology	462	465	494	533	568	578	607	636	723	775	873	1,056	1,200	1,394	1,503	1,548	1,594	1,505
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	1,334	1,407
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	2,958	3,129
History of science	3	5	7	4	7	6	5	5	2	3	5	13	8	7	9	12	6	14
Linguistics	42	45	39	48	71	68	80	101	120	121	141	165	216	254	288	312	343	387
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	6,893	7,607	7,935	8,068	8,312	8,833
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	6,320	6,622
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	3,863	4,329	4,669	4,910	5,057	5,269
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	118,554	129,193	138,531	147,697	158,802	166,645
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	1,805	1,923
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	1,575,102	1,601,214	1,609,748	1,613,590	1,612,752	1,623,489
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	507,520	523,226	533,432	538,215	542,724	551,293
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	87,522	93,505
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	3,154	3,313
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	9,726	10,638
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	12,662	12,681
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	18,003	19,636
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	4,755	5,106
Materials	897	854	871	869	784	807	902	936	1,047	958	1,019	1,020	1,151	1,247	1,260	1,426	1,528	1,603
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	24,276	26,273
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	13,418	14,255
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	437,761	450,068	456,022	456,824	455,202	457,788
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	192,974	203,292	212,179	220,234	226,947	234,618
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	27,307	27,584

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	88,133	91,582	95,059	98,918	101,102	102,690
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	6,400	6,381
Atmospheric sciences	473	439	509	544	556	647	626	718	701	671	654	644	690	700	680	675	660	622
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	5,540	5,568
Oceanography	154	165	204	128	153	121	96	133	117	135	163	198	210	223	234	232	200	191
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	58,108	62,156	65,610	69,093	72,847	78,438
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	41,456	44,485	47,842	51,028	54,488	59,444
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	18,359	18,994
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	19,291	19,525
Astronomy	149	211	250	244	259	294	341	301	300	301	342	322	363	314	365	339	379	446
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	12,397	12,589
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	5,942	5,932
Other physical sciences	612	582	591	567	421	467	497	480	505	542	613	653	685	682	722	637	573	558
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	244,787	246,776	243,843	236,590	228,255	223,170
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	94,417	97,755	98,365	97,412	95,429	93,709
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	150,370	149,021	145,478	139,178	132,826	129,461
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	7,596	6,925
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	4,990	4,721
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	25,697	25,945
History of science	88	93	94	96	133	110	105	105	100	96	104	124	113	110	121	117	102	101
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	1,834	1,791
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	52,235	50,835	49,475	46,753	44,438	43,880
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	21,579	20,606
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	30,874	31,470	30,137	27,949	26,590	25,492
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	1,067,582	1,077,988	1,076,316	1,075,375	1,070,028	1,072,196
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	15,026	15,196
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	10,740	10,768	10,211	9,697	9,316	9,194
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	2,930	2,844
Engineering	326	256	308	320	333	349	353	305	344	347	366	322	309	356	320	316	314	295
Aerospace	7	8	17	10	23	16	14	9	16	19	20	16	17	10	11	12	6	11
Chemical	42	31	33	34	29	30	27	25	36	30	37	29	31	34	31	40	38	38
Civil	83	65	67	67	64	73	73	75	63	75	77	89	61	81	72	46	67	60

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electrical	81	56	70	99	88	84	69	61	81	72	76	55	56	69	62	49	42	48
Industrial	23	17	21	12	15	27	17	14	23	18	21	10	16	20	16	19	11	21
Materials	5	4	6	3	6	5	8	5	7	5	1	3	5	1	1	2	6	3
Mechanical	52	51	61	58	73	72	91	71	81	88	87	84	78	82	70	97	92	67
Other	33	24	33	37	35	42	54	45	37	40	47	36	45	59	57	51	52	47
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	2,616	2,549
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	1,062	1,085
Agricultural sciences	190	215	158	163	188	161	186	165	172	207	175	182	213	225	193	206	182	205
Biological sciences	379	431	410	378	417	499	479	531	508	577	550	546	576	528	493	435	473	452
Earth, atmospheric, and ocean sciences	43	35	26	24	31	25	36	26	28	29	44	31	47	33	43	44	36	37
Atmospheric sciences	4	5	1	4	1	1	1	4	2	4	4	2	3	5	3	5	1	2
Earth sciences	35	29	23	18	30	23	35	21	26	24	39	29	44	26	39	36	31	31
Oceanography	4	1	2	2	0	1	0	1	0	1	1	0	0	2	1	3	4	4
Mathematics and computer sciences	240	326	290	343	504	357	338	312	294	284	324	310	289	344	339	349	280	316
Computer sciences	172	275	233	278	445	281	274	249	221	213	248	226	231	267	278	281	229	255
Mathematics and statistics	68	51	57	65	59	76	64	63	73	71	76	84	58	77	61	68	51	61
Physical sciences	65	73	83	94	76	103	102	117	107	134	108	102	87	103	109	77	91	75
Astronomy	2	2	2	4	1	3	1	1	1	2	3	1	3	5	0	0	0	1
Chemistry	49	47	57	71	50	65	73	90	80	94	66	68	59	69	79	64	65	52
Physics	12	19	21	17	20	33	24	22	22	32	35	31	23	25	27	10	23	16
Other physical sciences	2	5	3	2	5	2	4	4	4	6	4	2	2	4	3	3	3	6
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	1,554	1,464
Psychology	518	561	542	545	597	555	597	612	637	632	748	651	711	672	660	601	629	609
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	925	855
Anthropology	89	93	85	111	103	98	114	116	106	134	107	102	103	107	72	71	65	61
Area and ethnic studies	80	106	121	128	145	134	127	170	166	176	157	186	167	203	173	162	170	153
Economics	71	68	65	95	108	95	104	103	104	128	112	114	87	99	75	84	90	61
History of science	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0
Linguistics	10	2	2	9	4	12	7	11	9	12	10	16	7	12	7	12	8	10
Political science and public administration	230	234	241	288	354	345	397	368	404	375	416	387	332	334	301	260	244	221
Sociology	220	225	184	244	228	259	271	249	268	299	267	228	228	211	202	165	202	183
Other social sciences	145	175	134	167	176	217	230	234	244	229	240	268	254	219	204	190	146	166
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	7,329	7,322	7,019	6,725	6,386	6,350

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Engineering technologies	110	129	102	126	195	96	132	138	112	142	132	152	145	163	149	155	130	122
Asian																		
All fields	na	na	na	na	na	na	na	na	na	na	na	109,009	113,736	117,932	120,037	122,822	128,048	134,132
S&E	na	na	na	na	na	na	na	na	na	na	na	51,139	53,264	56,080	57,374	59,092	62,101	65,757
Engineering	na	na	na	na	na	na	na	na	na	na	na	8,658	9,081	9,947	10,078	10,734	11,821	12,794
Aerospace	na	na	na	na	na	na	na	na	na	na	na	325	343	389	334	395	350	423
Chemical	na	na	na	na	na	na	na	na	na	na	na	898	1,040	1,125	1,133	1,344	1,409	1,546
Civil	na	na	na	na	na	na	na	na	na	na	na	1,227	1,214	1,344	1,218	1,223	1,253	1,286
Electrical	na	na	na	na	na	na	na	na	na	na	na	2,449	2,488	2,772	2,899	3,110	3,602	4,033
Industrial	na	na	na	na	na	na	na	na	na	na	na	390	390	420	419	455	522	543
Materials	na	na	na	na	na	na	na	na	na	na	na	145	157	202	183	224	216	230
Mechanical	na	na	na	na	na	na	na	na	na	na	na	1,566	1,686	1,876	1,946	2,079	2,328	2,542
Other	na	na	na	na	na	na	na	na	na	na	na	1,658	1,763	1,819	1,946	1,904	2,141	2,191
Science	na	na	na	na	na	na	na	na	na	na	na	42,481	44,183	46,133	47,296	48,358	50,280	52,963
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	22,949	24,620	26,165	27,624	29,244	31,435	33,863
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	898	1,039	1,115	1,123	1,156	1,121	1,139
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	14,496	15,403	15,791	16,125	16,658	17,142	17,560
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	148	185	210	213	247	256	255
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	11	19	13	16	22	22	24
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	129	150	188	180	213	227	225
Oceanography	na	na	na	na	na	na	na	na	na	na	na	8	16	9	17	12	7	6
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	5,244	5,668	6,619	7,564	8,670	10,423	12,408
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	3,439	3,823	4,520	5,364	6,326	7,933	9,713
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	1,805	1,845	2,099	2,200	2,344	2,490	2,695
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	2,163	2,325	2,430	2,599	2,513	2,493	2,501
Astronomy	na	na	na	na	na	na	na	na	na	na	na	20	33	32	38	27	37	36
Chemistry	na	na	na	na	na	na	na	na	na	na	na	1,769	1,856	1,931	2,099	1,980	1,952	1,962
Physics	na	na	na	na	na	na	na	na	na	na	na	339	377	425	402	462	466	470
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	35	59	42	60	44	38	33
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	19,532	19,563	19,968	19,672	19,114	18,845	19,100
Psychology	na	na	na	na	na	na	na	na	na	na	na	6,207	6,678	6,973	7,099	6,940	7,082	7,254
Social sciences	na	na	na	na	na	na	na	na	na	na	na	13,325	12,885	12,995	12,573	12,174	11,763	11,846
Anthropology	na	na	na	na	na	na	na	na	na	na	na	657	678	737	714	620	576	569
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	809	883	819	714	638	596	580

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Economics	na	na	na	na	na	na	na	na	na	na	na	4,424	4,151	4,112	4,161	4,248	4,253	4,382
History of science	na	na	na	na	na	na	na	na	na	na	na	13	13	13	15	9	12	16
Linguistics	na	na	na	na	na	na	na	na	na	na	na	193	219	213	223	236	220	252
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	3,690	3,533	3,576	3,317	3,154	2,896	2,826
Sociology	na	na	na	na	na	na	na	na	na	na	na	1,808	1,750	1,801	1,753	1,686	1,594	1,559
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	1,731	1,658	1,724	1,676	1,583	1,616	1,662
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	57,870	60,472	61,852	62,663	63,730	65,947	68,375
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	664	622	649	663	665	749	699
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	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	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	na	na
Aerospace	98	103	128	145	186	184	223	250	278	294	309	na	na	na	na	na	na	na
Chemical	788	702	636	563	527	486	558	652	690	739	888	na	na	na	na	na	na	na
Civil	642	521	482	500	493	585	770	908	985	1,111	1,083	na	na	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	na	na
Industrial	332	319	356	386	376	352	362	333	315	360	343	na	na	na	na	na	na	na
Materials	91	88	85	91	95	101	166	153	140	137	157	na	na	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	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	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	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	na	na
Agricultural sciences	454	399	411	459	415	448	542	606	632	731	831	na	na	na	na	na	na	na
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	na	na
Earth, atmospheric, and ocean sciences	97	86	85	73	85	86	92	106	121	143	158	na	na	na	na	na	na	na
Atmospheric sciences	14	14	8	9	11	15	12	17	13	14	15	na	na	na	na	na	na	na
Earth sciences	77	64	65	58	65	69	75	82	104	119	133	na	na	na	na	na	na	na
Oceanography	6	8	12	6	9	2	5	7	4	10	10	na	na	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	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	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	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	na	na
Astronomy	9	12	24	16	18	21	37	16	21	27	36	na	na	na	na	na	na	na

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	na	na
Physics	218	184	184	204	223	236	281	327	307	306	310	na	na	na	na	na	na	na
Other physical sciences	27	22	31	30	28	35	33	39	43	42	45	na	na	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	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	na	na
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	na	na
Anthropology	340	332	377	396	398	424	496	534	581	599	678	na	na	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	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	na	na
History of science	12	15	20	16	14	11	9	8	11	13	8	na	na	na	na	na	na	na
Linguistics	72	69	73	83	105	112	112	136	156	152	187	na	na	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	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	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	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	na	na
Engineering technologies	770	731	769	703	680	754	661	669	657	594	622	na	na	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	172,869	179,517	180,812	182,778	185,880	188,414
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	49,696	52,165	52,647	53,649	54,432	55,651
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	4,206	4,443
Aerospace	40	39	43	65	70	71	85	72	84	90	101	88	73	91	82	113	116	116
Chemical	383	373	346	317	303	273	231	244	256	256	255	288	337	359	390	401	449	492
Civil	403	329	317	292	320	342	324	403	420	441	483	510	513	542	534	575	588	607
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	1,182	1,269
Industrial	256	238	256	275	251	297	273	252	229	230	262	245	258	236	255	273	303	317
Materials	24	27	32	22	22	19	28	22	31	30	27	29	36	33	39	41	47	45
Mechanical	594	515	561	471	504	537	569	570	560	539	550	585	610	694	668	793	912	1,003
Other	314	282	324	349	349	336	422	394	386	390	369	372	395	403	484	502	609	594
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	46,478	48,660	49,048	49,797	50,226	51,208
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	15,016	16,143	16,472	17,286	17,795	18,963
Agricultural sciences	450	428	454	452	450	444	485	481	557	510	595	575	704	744	852	856	932	982
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	8,804	9,344
Earth, atmospheric, and ocean sciences	51	56	62	60	65	68	58	79	89	88	97	105	119	134	143	166	155	165
Atmospheric sciences	10	2	10	12	20	8	14	15	21	20	23	23	18	21	19	14	22	14

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Earth sciences	40	52	42	43	43	54	43	61	65	65	71	76	95	106	116	143	125	145
Oceanography	1	2	10	5	2	6	1	3	3	3	3	6	6	7	8	9	8	6
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	5,815	6,512	6,494	6,762	6,665	7,103
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	4,851	5,497	5,472	5,746	5,658	6,068
Mathematics and statistics	904	808	843	790	783	855	847	832	796	842	834	821	964	1,015	1,022	1,016	1,007	1,035
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	1,239	1,369
Astronomy	1	2	3	1	3	4	9	3	6	5	7	5	3	5	3	10	10	11
Chemistry	888	827	796	744	756	760	827	852	910	935	893	918	1,101	1,044	1,068	1,009	963	1,084
Physics	152	133	182	147	166	166	171	163	144	149	143	149	142	148	195	172	217	224
Other physical sciences	49	34	37	36	33	35	33	25	24	44	45	53	59	62	54	61	49	50
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	31,462	32,517	32,576	32,511	32,431	32,245
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	12,712	13,413	13,617	14,022	14,187	14,256
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	18,750	19,104	18,959	18,489	18,244	17,989
Anthropology	268	242	253	258	338	320	337	358	408	435	447	495	500	506	515	467	499	469
Area and ethnic studies	738	691	784	749	805	905	1,011	926	1,012	992	927	1,211	1,076	917	963	925	933	965
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	1,512	1,612
History of science	6	6	4	6	8	5	4	12	7	8	9	7	20	9	8	11	8	10
Linguistics	14	24	25	17	32	33	44	44	57	50	44	60	84	80	85	69	114	103
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	6,342	6,664	6,600	6,369	6,230	6,235
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	5,060	4,865
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	3,891	4,043	3,878	3,664	3,888	3,730
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	123,173	127,352	128,165	129,129	131,448	132,763
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	1,740	1,753
Native Hawaiian or Other Pacific Islander																		
All fields	na	na	na	na	na	na	na	na	na	na	na	4,205	4,546	4,958	5,139	4,987	4,732	4,621
S&E	na	na	na	na	na	na	na	na	na	na	na	1,240	1,485	1,549	1,568	1,611	1,436	1,421
Engineering	na	na	na	na	na	na	na	na	na	na	na	117	162	187	183	141	160	156
Aerospace	na	na	na	na	na	na	na	na	na	na	na	3	5	5	6	4	7	7
Chemical	na	na	na	na	na	na	na	na	na	na	na	5	9	9	9	11	11	15
Civil	na	na	na	na	na	na	na	na	na	na	na	36	55	45	40	32	36	24
Electrical	na	na	na	na	na	na	na	na	na	na	na	29	34	49	34	35	36	38
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	5	12	8	5	5	12
Materials	na	na	na	na	na	na	na	na	na	na	na	2	3	3	3	1	4	3
Mechanical	na	na	na	na	na	na	na	na	na	na	na	29	34	40	53	33	37	35

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Other	na	na	na	na	na	na	na	na	na	na	na	13	17	24	30	20	24	22
Science	na	na	na	na	na	na	na	na	na	na	na	1,123	1,323	1,362	1,385	1,470	1,276	1,265
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	440	528	567	604	641	567	543
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	38	48	63	76	89	51	61
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	220	261	250	269	291	244	246
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	8	8	13	10	9	7	10
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	1	2	1	2	1	1
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	8	7	10	8	6	5	9
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	1	1	1	1	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	138	183	197	213	215	225	204
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	101	145	159	179	180	194	180
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	37	38	38	34	35	31	24
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	36	28	44	36	37	40	22
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	1	1
Chemistry	na	na	na	na	na	na	na	na	na	na	na	27	21	29	23	26	24	17
Physics	na	na	na	na	na	na	na	na	na	na	na	8	5	14	5	9	11	4
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	1	2	1	8	2	4	0
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	683	795	795	781	829	709	722
Psychology	na	na	na	na	na	na	na	na	na	na	na	206	238	272	275	297	266	294
Social sciences	na	na	na	na	na	na	na	na	na	na	na	477	557	523	506	532	443	428
Anthropology	na	na	na	na	na	na	na	na	na	na	na	25	33	24	39	30	31	13
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	38	43	44	40	41	31	37
Economics	na	na	na	na	na	na	na	na	na	na	na	65	53	48	46	57	39	54
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	3	3	4	5	8	6	3
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	158	188	165	182	162	146	167
Sociology	na	na	na	na	na	na	na	na	na	na	na	99	109	95	94	115	88	67
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	89	128	143	100	118	102	87
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	2,965	3,061	3,409	3,571	3,376	3,296	3,200
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	19	26	34	39	50	35	32
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	1,133,084	1,150,239	1,154,363	1,150,065	1,145,220	1,148,033
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	354,806	365,827	372,882	373,795	374,883	377,509

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	64,576	68,656
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	2,456	2,471
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	7,131	7,804
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	9,826	9,740
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	11,658	12,577
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	3,605	3,847
Materials	741	708	712	701	614	633	671	711	802	710	778	776	846	944	940	1,060	1,127	1,194
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	19,145	20,672
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	9,628	10,351
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	302,454	311,483	315,071	313,199	310,307	308,853
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	135,277	142,658	148,787	153,497	157,305	160,645
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	23,022	23,177
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	58,368	60,732	63,320	65,376	66,726	67,048
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	5,493	5,439
Atmospheric sciences	437	395	467	493	508	597	575	662	639	610	586	575	620	619	608	593	576	546
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	4,760	4,738
Oceanography	140	153	177	112	139	106	82	120	104	112	144	172	176	190	186	195	157	155
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	39,703	42,230	44,344	46,298	48,214	51,014
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	27,128	29,031	31,206	33,112	34,904	37,470
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	13,310	13,544
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	13,850	13,967
Astronomy	131	185	204	212	220	234	269	248	251	233	260	272	291	249	291	275	288	348
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	8,449	8,522
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	4,712	4,683
Other physical sciences	522	497	487	471	332	366	390	391	400	415	475	396	469	513	549	480	401	414
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	167,177	168,825	166,284	159,702	153,002	148,208
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	65,884	68,542	68,565	66,908	64,829	62,733
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	101,293	100,283	97,719	92,794	88,173	85,475
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	5,626	5,106
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	2,685	2,368
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	17,600	17,481
History of science	58	57	60	68	100	86	83	73	69	61	69	93	68	74	89	87	74	68
Linguistics	439	499	571	598	652	637	771	858	955	909	1,033	1,107	1,270	1,327	1,312	1,286	1,264	1,209

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	36,019	34,702	33,911	31,940	30,629	30,198
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	12,562	11,949
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	21,453	21,865	20,733	19,177	17,733	17,096
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	778,278	784,412	781,481	776,270	770,337	770,524
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	11,295	11,493
More than one race ^c																		
All fields	na	na	na	na	na	na	na	na	na	na	na	19,451	25,475	32,310	43,043	51,507	58,925	63,890
S&E	na	na	na	na	na	na	na	na	na	na	na	7,168	9,613	12,149	16,956	20,135	23,005	24,964
Engineering	na	na	na	na	na	na	na	na	na	na	na	888	1,125	1,422	2,116	2,707	3,323	3,736
Aerospace	na	na	na	na	na	na	na	na	na	na	na	31	57	73	93	117	133	169
Chemical	na	na	na	na	na	na	na	na	na	na	na	98	100	110	192	272	360	395
Civil	na	na	na	na	na	na	na	na	na	na	na	164	177	258	312	396	448	489
Electrical	na	na	na	na	na	na	na	na	na	na	na	187	215	292	465	556	705	829
Industrial	na	na	na	na	na	na	na	na	na	na	na	49	60	50	90	135	165	188
Materials	na	na	na	na	na	na	na	na	na	na	na	10	28	26	40	54	92	76
Mechanical	na	na	na	na	na	na	na	na	na	na	na	197	284	358	545	724	864	992
Other	na	na	na	na	na	na	na	na	na	na	na	152	204	255	379	453	556	598
Science	na	na	na	na	na	na	na	na	na	na	na	6,280	8,488	10,727	14,840	17,428	19,682	21,228
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	2,390	3,274	4,292	6,270	7,750	9,100	10,037
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	226	378	541	722	830	1,018	1,086
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	1,142	1,593	2,047	3,030	3,878	4,263	4,699
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	65	102	116	162	199	228	261
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	2	6	13	15	19	20	18
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	58	88	97	131	169	195	229
Oceanography	na	na	na	na	na	na	na	na	na	na	na	5	8	6	16	11	13	14
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	706	892	1,206	1,745	2,173	2,762	3,111
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	496	655	864	1,238	1,569	2,075	2,343
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	210	237	342	507	604	687	768
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	251	309	382	611	670	829	880
Astronomy	na	na	na	na	na	na	na	na	na	na	na	8	6	10	18	15	26	37
Chemistry	na	na	na	na	na	na	na	na	na	na	na	152	208	250	397	422	513	531
Physics	na	na	na	na	na	na	na	na	na	na	na	82	86	109	178	217	265	296
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	9	9	13	18	16	25	16

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	3,890	5,214	6,435	8,570	9,678	10,582	11,191
Psychology	na	na	na	na	na	na	na	na	na	na	na	1,488	1,921	2,412	3,319	3,817	4,193	4,418
Social sciences	na	na	na	na	na	na	na	na	na	na	na	2,402	3,293	4,023	5,251	5,861	6,389	6,773
Anthropology	na	na	na	na	na	na	na	na	na	na	na	192	291	360	497	460	484	497
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	216	244	312	340	343	354	422
Economics	na	na	na	na	na	na	na	na	na	na	na	356	435	504	691	917	952	1,095
History of science	na	na	na	na	na	na	na	na	na	na	na	4	5	4	4	5	6	6
Linguistics	na	na	na	na	na	na	na	na	na	na	na	40	52	61	102	118	128	134
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	2,067	2,191
Sociology	na	na	na	na	na	na	na	na	na	na	na	443	576	733	943	1,049	1,166	1,134
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	379	559	737	1,004	1,121	1,232	1,294
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	12,283	15,862	20,161	26,087	31,372	35,920	38,926
Engineering technologies	na	na	na	na	na	na	na	na	na	na	na	145	191	216	298	442	416	465
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	114,652	105,490	96,143	91,734	80,631	75,205
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	35,245	32,010	28,813	26,961	23,937	23,147
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	3,122	3,425
Aerospace	35	50	61	80	115	80	126	133	145	149	173	160	125	107	101	78	86	116
Chemical	119	156	155	206	162	153	174	194	230	240	305	276	313	293	357	278	328	348
Civil	239	265	269	329	360	389	434	470	573	652	763	845	597	629	540	461	444	475
Electrical	560	674	764	937	1,013	1,027	982	906	884	934	1,037	903	768	752	799	756	778	842
Industrial	69	84	101	109	100	148	107	111	119	128	193	208	147	141	149	147	144	178
Materials	36	27	36	52	47	49	29	45	67	76	56	55	76	38	54	44	36	52
Mechanical	358	431	485	514	558	647	721	731	846	876	1,008	1,045	940	908	918	870	898	962
Other	194	197	229	282	266	334	376	418	459	541	584	556	546	529	385	411	408	452
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	31,733	28,613	25,510	23,916	20,815	19,722
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	13,047	12,234	11,245	10,705	9,683	9,482
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	981	934
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	3,450	3,341
Earth, atmospheric, and ocean sciences	121	149	166	174	203	183	222	199	249	261	274	299	252	244	227	240	225	214
Atmospheric sciences	8	23	23	26	16	26	24	20	26	23	26	31	23	27	18	20	18	17
Earth sciences	110	125	140	145	184	151	190	177	217	229	243	261	225	209	204	219	197	191
Oceanography	3	1	3	3	3	6	8	2	6	9	5	7	4	8	5	1	10	6

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	5,558	5,048	4,911	4,626	4,278	4,282
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	4,623	4,147	4,105	3,814	3,495	3,415
Mathematics and statistics	393	452	489	604	667	740	810	830	899	1,000	1,106	928	935	901	806	812	783	867
Physical sciences	450	508	586	635	664	737	862	952	1,054	954	1,196	1,140	1,116	1,003	815	780	749	711
Astronomy	6	10	17	11	17	32	25	33	21	34	36	16	27	13	15	12	17	12
Chemistry	280	311	340	346	384	387	492	554	626	573	705	620	637	617	509	480	431	421
Physics	152	163	196	250	240	289	308	344	373	312	411	347	367	326	261	257	248	239
Other physical sciences	12	24	33	28	23	29	37	21	34	35	44	157	85	47	30	31	53	39
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	18,686	16,379	14,265	13,211	11,132	10,240
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	6,273	5,471	4,830	4,827	4,243	4,145
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	12,413	10,908	9,435	8,384	6,889	6,095
Anthropology	404	424	495	558	620	621	639	680	777	722	855	739	773	641	504	406	315	210
Area and ethnic studies	282	297	329	372	436	468	483	499	511	569	596	450	525	412	274	247	221	196
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	1,251	1,260
History of science	11	15	10	6	11	8	9	12	12	13	18	7	6	10	4	4	2	1
Linguistics	56	41	56	79	109	114	113	131	123	156	192	139	153	143	106	126	94	80
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	4,690	4,082	3,494	3,020	2,226	2,042
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	907	849
Other social sciences	804	903	946	1,202	1,456	1,515	1,549	1,733	1,846	2,018	2,051	2,456	2,931	2,739	2,542	2,096	1,873	1,457
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	79,407	73,480	67,330	64,773	56,694	52,058
Engineering technologies	582	630	721	712	690	868	879	888	982	1,029	1,038	1,055	1,121	951	999	933	661	632
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	59,583	64,901	69,483	75,639	84,307	91,428
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	37,154	41,714
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	10,117	11,809
Aerospace	121	148	122	160	174	171	147	175	151	178	217	245	267	273	296	272	300	297
Chemical	445	424	447	359	368	411	436	430	464	518	592	764	899	1,003	1,063	1,170	1,332	1,539
Civil	458	412	371	349	315	327	342	326	373	368	495	559	709	803	950	1,062	1,308	1,504
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	2,820	3,093
Industrial	481	475	442	402	381	395	428	375	406	369	433	446	581	584	684	756	885	1,023
Materials	37	42	29	31	29	40	46	49	45	64	62	70	80	120	149	162	222	241
Mechanical	789	744	683	596	614	647	650	713	714	715	801	880	1,119	1,259	1,470	1,755	2,215	2,923
Other	365	332	304	326	393	428	486	442	438	434	483	588	677	689	783	868	1,035	1,189
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	27,037	29,905

TABLE S2-7

Bachelor's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	8,577	9,598	10,373	11,586	13,477	15,784
Agricultural sciences	258	248	262	270	251	274	266	282	228	243	289	342	374	515	569	604	663	714
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	3,400	3,691
Earth, atmospheric, and ocean sciences	46	49	59	57	50	80	76	58	70	82	104	122	116	181	226	219	243	254
Atmospheric sciences	8	2	6	8	3	10	5	9	5	8	6	5	9	16	15	13	15	17
Earth sciences	33	46	49	48	45	65	65	47	64	74	96	117	104	162	207	206	218	233
Oceanography	5	1	4	1	2	5	6	2	1	0	2	0	3	3	4	0	10	4
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	4,252	4,774	5,522	6,503	7,854	9,627
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	2,362	2,382	2,819	3,369	4,086	5,141
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	3,768	4,486
Physical sciences	532	556	543	523	591	668	764	742	773	796	801	880	965	1,088	1,137	1,225	1,317	1,498
Astronomy	4	13	16	15	10	20	13	13	16	13	13	16	8	12	28	16	29	36
Chemistry	344	335	342	326	350	397	466	451	468	529	547	573	599	693	745	762	820	893
Physics	160	180	166	168	189	200	243	223	229	209	207	255	326	349	331	414	441	550
Other physical sciences	24	28	19	14	42	51	42	55	60	45	34	36	32	34	33	33	27	19
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	8,974	10,178	11,375	12,498	13,560	14,121
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	2,006	2,229	2,460	2,557	2,896	3,057
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	6,968	7,949	8,915	9,941	10,664	11,064
Anthropology	116	120	114	94	106	115	123	110	124	100	118	98	122	105	151	137	140	136
Area and ethnic studies	178	164	158	160	164	163	175	199	171	235	197	210	230	198	254	243	277	305
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	6,390	6,564
History of science	1	3	2	3	0	1	3	4	1	1	1	1	1	2	3	2	3	2
Linguistics	83	77	81	80	74	77	74	59	85	78	75	85	105	90	97	108	112	121
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	1,673	1,802	1,850	1,993	2,072	2,162
Sociology	299	258	295	349	327	329	390	398	365	356	367	371	439	485	547	584	621	701
Other social sciences	288	305	307	345	370	422	450	566	509	556	462	573	613	728	849	967	1,049	1,073
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	35,701	38,378	40,179	43,000	47,153	49,714
Engineering technologies	443	543	466	459	516	488	378	379	371	445	428	450	516	646	663	885	1,001	1,269

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

^a Beginning in 2008, Hispanic may be any race and race categories exclude Hispanic origin.

^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 people 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 Center for Science and Engineering Statistics, National Science Foundation, Integrated Data System (IDS).

Science and Engineering Indicators

TABLE S2-8

Master's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	759,538	756,975	759,796	763,980	791,237	810,108
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	161,372	166,397	171,228	180,955	198,292	206,172
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	43,175	43,388	45,362	49,207	55,166	56,971
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	1,438	1,580
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	2,306	2,441
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	6,921	6,993
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	18,733	17,978
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	6,630	7,759
Materials	759	706	624	717	800	790	765	787	768	836	815	894	990	1,099	1,170	1,164	1,308	1,371
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	7,665	8,386
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	8,496	8,814	9,096	9,526	10,165	10,463
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	118,197	123,009	125,866	131,748	143,126	149,201
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	52,613	55,873	58,908	66,939	77,883	86,220
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	6,043	6,119
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	15,370	16,253
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	2,049	2,080	2,197	2,212	2,133	2,182
Atmospheric sciences	156	140	141	167	179	212	206	193	199	225	227	221	240	233	263	253	220	236
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	1,656	1,705	1,782	1,812	1,760	1,780
Oceanography	85	102	114	121	143	111	128	127	131	130	149	139	153	142	152	147	153	166
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	27,699	30,179	32,419	39,821	49,601	56,909
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	21,015	22,833	24,635	31,552	40,211	46,615
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	6,684	7,346	7,784	8,269	9,390	10,294
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	4,736	4,757
Astronomy	102	93	112	123	150	159	146	152	166	139	149	185	127	170	160	156	140	169
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	2,513	2,557
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	1,959	1,852
Other physical sciences	258	259	293	254	187	199	182	155	173	174	189	193	210	177	178	163	124	179
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	65,584	67,136	66,958	64,809	65,243	62,981
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	24,121	25,140	25,332	24,029	25,041	24,653
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	41,463	41,996	41,626	40,780	40,202	38,328
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	1,204	1,163
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	1,840	1,723
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	4,378	4,535
History of science	24	26	35	25	25	29	41	28	47	33	25	44	37	33	28	26	35	32
Linguistics	553	552	520	525	574	611	621	583	610	720	679	711	789	782	728	779	778	687

TABLE S2-8

Master's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	26,091	26,762	26,321	25,786	25,501	23,381
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	1,419	1,442
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	5,269	5,411	5,240	5,160	5,047	5,365
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	598,166	590,578	588,568	583,025	592,945	603,936
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	303,802	303,230	304,556	308,283	322,313	328,651
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	87,859	90,046	92,457	99,282	110,442	116,326
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	33,276	33,091	34,374	36,925	41,377	42,853
Aerospace	484	521	557	596	721	771	781	742	864	906	941	1,110	1,217	1,076	1,104	1,140	1,198	1,336
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	1,608	1,657
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	4,794	4,905
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	14,187	13,605
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	4,943	5,907
Materials	558	534	456	536	601	586	565	578	549	594	590	650	669	764	822	818	921	945
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	6,538	7,175
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	6,262	6,351	6,591	6,790	7,188	7,323
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	54,583	56,955	58,083	62,357	69,065	73,473
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	31,264	33,487	34,832	39,765	46,686	51,661
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	2,603	2,660
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	6,510	6,708
Earth, atmospheric, and ocean sciences	832	799	834	879	869	927	923	891	847	848	888	994	1,174	1,178	1,281	1,257	1,210	1,237
Atmospheric sciences	119	100	95	112	112	143	135	124	126	134	133	135	147	142	152	163	144	132
Earth sciences	670	649	678	702	682	737	738	713	663	658	686	797	960	961	1,063	1,031	996	1,035
Oceanography	43	50	61	65	75	47	50	54	58	56	69	62	67	75	66	63	70	70
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	19,145	20,989	22,087	26,834	33,321	38,025
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	15,172	16,570	17,547	21,945	27,839	32,221
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	3,973	4,419	4,540	4,889	5,482	5,804
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	3,042	3,031
Astronomy	77	57	85	81	97	97	80	93	104	82	94	115	77	94	94	94	83	99
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	1,368	1,420
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	1,526	1,411
Other physical sciences	135	105	132	120	90	98	85	73	83	85	88	91	112	86	89	92	65	101
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	23,319	23,468	23,251	22,592	22,379	21,812
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	5,045	5,288	5,327	5,103	5,185	5,180
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	18,274	18,180	17,924	17,489	17,194	16,632
Anthropology	363	403	375	388	377	370	395	375	379	410	394	394	419	376	416	411	418	365

TABLE S2-8

Master's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Area and ethnic studies	643	619	608	554	656	687	794	644	662	622	679	746	728	724	654	709	704	644
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	2,574	2,639
History of science	18	16	18	15	11	17	30	10	24	17	16	30	19	19	9	11	17	16
Linguistics	146	172	160	145	164	178	171	175	212	217	202	229	281	290	287	255	279	260
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	11,179	11,356	11,115	10,850	10,684	10,184
Sociology	649	643	642	633	673	485	467	485	512	536	476	567	633	545	537	495	518	494
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	2,419	2,356	2,217	2,125	2,000	2,030
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	215,943	213,184	212,099	209,001	211,871	212,325
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	455,736	453,745	455,240	455,697	468,924	481,457
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	73,513	76,351	78,771	81,673	87,850	89,846
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	9,899	10,297	10,988	12,282	13,789	14,118
Aerospace	76	90	125	106	149	164	155	170	172	169	157	196	191	190	207	178	240	244
Chemical	344	352	335	343	417	425	386	376	353	398	435	506	595	613	617	675	698	784
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	2,127	2,088
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	4,546	4,373
Industrial	648	784	792	843	906	919	918	877	925	1,066	1,181	1,345	1,439	1,401	1,511	1,561	1,687	1,852
Materials	201	172	168	181	199	204	200	209	219	242	225	244	321	335	348	346	387	426
Mechanical	455	448	468	459	563	599	633	583	660	699	693	788	751	831	960	1,075	1,127	1,211
Other	983	1,037	1,052	1,190	1,305	1,499	1,628	1,535	1,722	1,809	1,892	2,130	2,234	2,463	2,505	2,736	2,977	3,140
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	63,614	66,054	67,783	69,391	74,061	75,728
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	21,349	22,386	24,076	27,174	31,197	34,559
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	3,440	3,459
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	8,860	9,545
Earth, atmospheric, and ocean sciences	513	564	572	612	701	710	761	741	705	731	789	795	875	902	916	955	923	945
Atmospheric sciences	37	40	46	55	67	69	71	69	73	91	94	86	93	91	111	90	76	104
Earth sciences	434	472	473	501	566	577	612	599	559	566	615	632	696	744	719	781	764	745
Oceanography	42	52	53	56	68	64	78	73	73	74	80	77	86	67	86	84	83	96
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	8,554	9,190	10,332	12,987	16,280	18,884
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	5,843	6,263	7,088	9,607	12,372	14,394
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	2,711	2,927	3,244	3,380	3,908	4,490
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	1,694	1,726
Astronomy	25	36	27	42	53	62	66	59	62	57	55	70	50	76	66	62	57	70
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	1,145	1,137
Physics	244	286	286	313	413	422	439	417	378	371	410	404	409	401	439	436	433	441
Other physical sciences	123	154	161	134	97	101	97	82	90	89	101	102	98	91	89	71	59	78

TABLE S2-8

Master's degrees awarded, by sex and field: 2000–17

(Number)

Sex and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	42,265	43,668	43,707	42,217	42,864	41,169
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	19,076	19,852	20,005	18,926	19,856	19,473
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	23,189	23,816	23,702	23,291	23,008	21,696
Anthropology	587	689	642	655	721	737	761	839	766	838	839	849	860	819	900	847	786	798
Area and ethnic studies	868	892	865	873	960	975	1,223	997	1,060	1,050	1,021	1,134	1,129	1,150	1,137	1,149	1,136	1,079
Economics	952	973	1,050	1,161	1,252	1,391	1,319	1,306	1,384	1,506	1,492	1,728	1,735	1,773	1,852	1,799	1,804	1,896
History of science	6	10	17	10	14	12	11	18	23	16	9	14	18	14	19	15	18	16
Linguistics	407	380	360	380	410	433	450	408	398	503	477	482	508	492	441	524	499	427
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	14,912	15,406	15,206	14,936	14,817	13,197
Sociology	1,387	1,258	1,315	1,296	1,358	1,033	1,110	1,090	1,059	1,065	977	1,073	1,177	1,107	1,124	986	901	948
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	2,850	3,055	3,023	3,035	3,047	3,335
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	382,223	377,394	376,469	374,024	381,074	391,611

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 Center for Science and Engineering Statistics, National Science Foundation, Integrated Data System (IDS).

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	759,538	756,975	759,796	763,980	791,237	810,108
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	161,372	166,397	171,228	180,955	198,292	206,172
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	43,175	43,388	45,362	49,207	55,166	56,971
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	1,438	1,580
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	2,306	2,441
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	6,921	6,993
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	18,733	17,978
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	6,630	7,759
Materials	759	706	624	717	800	790	765	787	768	836	815	894	990	1,099	1,170	1,164	1,308	1,371
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	7,665	8,386
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	8,496	8,814	9,096	9,526	10,165	10,463
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	118,197	123,009	125,866	131,748	143,126	149,201
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	52,613	55,873	58,908	66,939	77,883	86,220
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	6,043	6,119
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	15,370	16,253
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	2,049	2,080	2,197	2,212	2,133	2,182
Atmospheric sciences	156	140	141	167	179	212	206	193	199	225	227	221	240	233	263	253	220	236
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	1,656	1,705	1,782	1,812	1,760	1,780
Oceanography	85	102	114	121	143	111	128	127	131	130	149	139	153	142	152	147	153	166
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	27,699	30,179	32,419	39,821	49,601	56,909
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	21,015	22,833	24,635	31,552	40,211	46,615
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	6,684	7,346	7,784	8,269	9,390	10,294
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	4,736	4,757
Astronomy	102	93	112	123	150	159	146	152	166	139	149	185	127	170	160	156	140	169
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	2,513	2,557
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	1,959	1,852
Other physical sciences	258	259	293	254	187	199	182	155	173	174	189	193	210	177	178	163	124	179
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	65,584	67,136	66,958	64,809	65,243	62,981
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	24,121	25,140	25,332	24,029	25,041	24,653
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	41,463	41,996	41,626	40,780	40,202	38,328
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	1,204	1,163
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	1,840	1,723
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	4,378	4,535
History of science	24	26	35	25	25	29	41	28	47	33	25	44	37	33	28	26	35	32
Linguistics	553	552	520	525	574	611	621	583	610	720	679	711	789	782	728	779	778	687

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	26,091	26,762	26,321	25,786	25,501	23,381
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	1,419	1,442
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	5,269	5,411	5,240	5,160	5,047	5,365
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	598,166	590,578	588,568	583,025	592,945	603,936
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	670,311	662,486	655,968	646,832	655,251	664,628
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	120,430	123,136	123,884	122,231	124,355	124,686
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	25,591	25,469	25,471	24,747	24,742	24,958
Aerospace	339	360	395	417	579	645	683	731	798	839	833	974	1,079	979	991	983	1,040	1,147
Chemical	721	726	662	656	704	739	734	691	609	626	720	830	916	875	949	1,015	984	1,088
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	4,035	3,771
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	4,601	4,617
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	2,946	2,961
Materials	483	406	380	378	417	451	431	456	432	452	460	488	536	578	575	559	657	645
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	3,797	3,939
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	6,370	6,511	6,522	6,611	6,682	6,790
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	94,839	97,667	98,413	97,484	99,613	99,728
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	35,861	37,862	39,137	40,387	42,401	44,992
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	5,163	5,198
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	13,061	13,772
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	1,733	1,763	1,854	1,864	1,780	1,800
Atmospheric sciences	118	116	113	128	135	166	161	158	173	203	184	200	201	201	219	204	176	183
Earth sciences	962	987	1,001	1,046	1,058	1,132	1,162	1,156	1,061	1,039	1,126	1,242	1,396	1,434	1,502	1,530	1,471	1,474
Oceanography	70	88	93	111	119	92	108	102	114	103	126	121	136	128	133	130	133	143
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	15,611	16,845	17,501	18,376	19,266	21,092
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	11,650	12,725	13,409	14,199	14,900	16,542
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	3,961	4,120	4,092	4,177	4,366	4,550
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	3,131	3,130
Astronomy	80	65	77	94	102	122	117	114	128	114	117	134	104	137	119	122	115	132
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	1,656	1,705
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	1,272	1,158
Other physical sciences	222	237	270	241	166	176	167	141	159	153	165	175	169	135	141	124	88	135
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	58,978	59,805	59,276	57,097	57,212	54,736
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	23,337	24,212	24,491	23,209	24,054	23,717
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	35,641	35,593	34,785	33,888	33,158	31,019
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	1,105	1,049

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	1,515	1,423
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	2,064	2,038
History of science	22	21	33	18	22	23	32	26	39	28	22	39	32	26	21	22	32	30
Linguistics	380	394	351	353	398	422	450	404	442	547	505	536	597	594	549	537	564	472
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	23,310	23,655	23,044	22,509	22,086	19,965
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	1,242	1,287
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	4,817	4,972	4,796	4,696	4,550	4,755
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	549,881	539,350	532,084	524,601	530,896	539,942
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	50,398	52,804	56,007	58,619	63,063	67,353
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	9,449	10,161	10,893	11,392	12,330	13,092
Engineering	852	835	853	862	1,130	1,145	1,094	1,220	1,243	1,317	1,447	1,709	1,985	2,075	2,209	2,290	2,214	2,426
Aerospace	13	11	19	13	21	38	26	38	32	34	45	61	68	81	78	88	74	113
Chemical	39	40	45	39	40	41	49	43	42	46	37	53	58	62	65	96	79	94
Civil	180	167	187	152	163	208	185	199	208	217	268	318	405	425	467	445	445	452
Electrical	211	172	179	238	340	274	281	294	294	290	269	373	363	334	380	391	389	420
Industrial	172	191	205	162	229	239	212	238	256	283	318	327	406	394	445	397	378	423
Materials	15	21	15	6	16	26	17	21	22	16	24	34	35	51	45	44	35	58
Mechanical	99	93	87	116	157	151	153	171	160	183	201	222	277	295	305	334	349	390
Other	123	140	116	136	164	168	171	216	229	248	285	321	373	433	424	495	465	476
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	7,464	8,086	8,684	9,102	10,116	10,666
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	2,259	2,422	2,667	2,920	3,363	3,647
Agricultural sciences	133	123	175	132	171	185	196	176	157	206	227	264	302	295	305	314	383	382
Biological sciences	268	310	267	268	330	362	373	418	466	461	519	581	677	754	872	916	1,165	1,341
Earth, atmospheric, and ocean sciences	30	28	35	28	36	47	51	42	57	41	53	81	83	80	97	104	113	118
Atmospheric sciences	2	0	1	2	2	3	2	5	11	6	2	9	9	8	15	12	8	7
Earth sciences	26	25	31	24	32	43	47	33	43	32	44	66	72	68	77	86	93	105
Oceanography	2	3	3	2	2	1	2	4	3	3	7	6	2	4	5	6	12	6
Mathematics and computer sciences	408	544	437	680	728	628	671	670	654	655	817	875	1,043	1,106	1,196	1,354	1,459	1,554
Computer sciences	308	472	355	572	615	498	506	491	473	497	651	659	810	815	921	1,056	1,160	1,231
Mathematics and statistics	100	72	82	108	113	130	165	179	181	158	166	216	233	291	275	298	299	323
Physical sciences	96	119	136	144	127	140	168	145	156	165	161	174	154	187	197	232	243	252
Astronomy	2	1	2	2	3	2	6	3	6	4	3	6	4	5	5	5	10	7
Chemistry	56	74	72	90	70	84	107	79	90	89	96	107	82	99	116	123	135	149
Physics	34	37	56	41	44	49	54	60	53	67	56	54	65	77	71	100	92	89
Other physical sciences	4	7	6	11	10	5	1	3	7	5	6	7	3	6	5	4	6	7

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	5,205	5,664	6,017	6,182	6,753	7,019
Psychology	842	946	962	974	1,102	1,222	1,331	1,466	1,543	1,670	1,812	2,051	2,147	2,547	2,566	2,664	3,063	3,157
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	3,058	3,117	3,451	3,518	3,690	3,862
Anthropology	37	45	59	48	58	62	60	67	59	83	80	89	81	108	85	98	101	110
Area and ethnic studies	97	111	109	119	116	132	174	144	184	164	188	187	225	215	250	248	358	268
Economics	67	53	57	79	80	111	100	86	81	92	90	152	161	160	146	164	173	178
History of science	0	1	0	1	0	0	0	1	1	1	1	1	3	2	1	2	1	0
Linguistics	18	27	19	23	26	26	42	37	33	43	31	42	58	56	59	50	59	55
Political science and public administration	702	736	743	802	909	1,026	1,070	1,248	1,252	1,343	1,541	1,706	1,965	2,019	2,308	2,305	2,356	2,473
Sociology	110	116	140	117	139	111	126	112	105	140	112	166	201	177	209	192	197	197
Other social sciences	102	119	114	107	159	183	225	209	225	253	300	333	364	380	393	459	445	581
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	40,949	42,643	45,114	47,227	50,733	54,261
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	619,913	609,682	599,961	588,213	592,188	597,275
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	110,981	112,975	112,991	110,839	112,025	111,594
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	23,606	23,394	23,262	22,457	22,528	22,532
Aerospace	326	349	376	404	558	607	657	693	766	805	788	913	1,011	898	913	895	966	1,034
Chemical	682	686	617	617	664	698	685	648	567	580	683	777	858	813	884	919	905	994
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	3,590	3,319
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	4,212	4,197
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	2,568	2,538
Materials	468	385	365	372	401	425	414	435	410	436	436	454	501	527	530	515	622	587
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	3,448	3,549
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	5,997	6,078	6,098	6,116	6,217	6,314
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	87,375	89,581	89,729	88,382	89,497	89,062
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	33,602	35,440	36,470	37,467	39,038	41,345
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	4,780	4,816
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	11,896	12,431
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	1,650	1,683	1,757	1,760	1,667	1,682
Atmospheric sciences	116	116	112	126	133	163	159	153	162	197	182	191	192	193	204	192	168	176
Earth sciences	936	962	970	1,022	1,026	1,089	1,115	1,123	1,018	1,007	1,082	1,176	1,324	1,366	1,425	1,444	1,378	1,369
Oceanography	68	85	90	109	117	91	106	98	111	100	119	115	134	124	128	124	121	137
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	14,568	15,739	16,305	17,022	17,807	19,538
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	10,840	11,910	12,488	13,143	13,740	15,311
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	3,728	3,829	3,817	3,879	4,067	4,227
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	2,888	2,878

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Astronomy	78	64	75	92	99	120	111	111	122	110	114	128	100	132	114	117	105	125
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	1,521	1,556
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	1,180	1,069
Other physical sciences	218	230	264	230	156	171	166	138	152	148	159	168	166	129	136	120	82	128
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	53,773	54,141	53,259	50,915	50,459	47,717
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	21,190	21,665	21,925	20,545	20,991	20,560
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	32,583	32,476	31,334	30,370	29,468	27,157
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	1,004	939
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	1,157	1,155
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	1,891	1,860
History of science	22	20	33	17	22	23	32	25	38	27	21	38	29	24	20	20	31	30
Linguistics	362	367	332	330	372	396	408	367	409	504	474	494	539	538	490	487	505	417
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	21,345	21,636	20,736	20,204	19,730	17,492
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	1,045	1,090
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	4,453	4,592	4,403	4,237	4,105	4,174
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	508,932	496,707	486,970	477,374	480,163	485,681
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	3,282	3,350	3,188	3,116	3,244	3,142
S&E	383	476	421	457	540	501	568	552	553	560	629	584	603	597	589	548	583	618
Engineering	64	60	56	69	85	82	87	73	86	89	87	78	92	79	55	59	80	77
Aerospace	0	2	4	2	6	2	8	5	1	7	9	3	1	6	3	3	2	3
Chemical	3	4	2	2	0	4	2	7	3	3	3	2	2	1	0	3	3	6
Civil	14	10	11	13	16	13	17	15	13	18	12	16	17	14	12	9	13	5
Electrical	14	10	13	18	10	20	17	5	28	18	22	10	15	11	6	8	16	14
Industrial	8	15	8	8	19	18	9	13	14	13	12	15	20	13	10	11	12	15
Materials	4	1	2	1	1	1	1	0	2	0	2	0	3	3	0	2	0	0
Mechanical	7	7	6	9	21	6	11	12	10	9	12	13	13	10	8	5	11	9
Other	14	11	10	16	12	18	22	16	15	21	15	19	21	21	16	18	23	25
Science	319	416	365	388	455	419	481	479	467	471	542	506	511	518	534	489	503	541
Natural sciences	108	147	119	126	136	134	168	141	162	137	160	161	173	160	146	158	144	166
Agricultural sciences	23	18	25	24	23	27	35	34	31	26	35	34	34	36	20	40	26	33
Biological sciences	26	29	34	31	33	29	46	32	55	38	52	40	48	39	49	43	24	43
Earth, atmospheric, and ocean sciences	9	11	4	9	7	11	4	9	7	10	8	13	17	15	4	6	12	7
Atmospheric sciences	0	0	0	0	0	1	0	1	0	0	0	2	0	2	0	0	0	1
Earth sciences	9	8	4	9	7	10	4	8	7	10	7	10	16	12	3	6	12	6
Oceanography	0	3	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Mathematics and computer sciences	41	80	41	50	65	56	69	54	55	44	56	62	63	54	61	62	68	77
Computer sciences	32	71	33	42	58	47	58	40	44	36	45	48	52	45	56	53	59	72
Mathematics and statistics	9	9	8	8	7	9	11	14	11	8	11	14	11	9	5	9	9	5
Physical sciences	9	9	15	12	8	11	14	12	14	19	9	12	11	16	12	7	14	6
Astronomy	0	0	0	1	0	1	0	0	0	1	1	2	0	1	0	0	1	0
Chemistry	5	7	11	5	3	6	9	8	8	9	5	5	6	10	7	4	3	3
Physics	3	2	4	5	5	3	3	3	5	8	3	3	4	5	4	3	9	3
Other physical sciences	1	0	0	1	0	1	2	1	1	1	0	2	1	0	1	0	1	0
Social and behavioral sciences	211	269	246	262	319	285	313	338	305	334	382	345	338	358	388	331	359	375
Psychology	69	107	97	109	112	118	118	114	104	116	123	116	112	140	154	119	132	129
Social sciences	142	162	149	153	207	167	195	224	201	218	259	229	226	218	234	212	227	246
Anthropology	14	17	12	11	19	14	21	25	16	16	19	14	14	12	13	5	10	17
Area and ethnic studies	16	20	20	33	27	27	28	25	32	25	28	23	29	28	22	36	42	66
Economics	3	7	10	6	6	10	3	12	8	9	12	8	4	8	4	2	6	3
History of science	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0
Linguistics	1	1	4	1	2	6	2	2	2	4	16	7	5	6	6	2	9	4
Political science and public administration	62	70	74	78	118	90	107	134	117	135	136	137	134	134	161	142	137	129
Sociology	30	28	17	17	17	7	10	9	12	8	11	8	15	7	6	7	4	7
Other social sciences	16	18	11	7	18	13	24	17	14	21	37	32	25	23	20	17	19	20
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	2,679	2,753	2,599	2,568	2,661	2,524
Asian																		
All fields	na	na	na	na	na	na	na	na	na	na	na	37,473	39,001	38,950	38,800	39,188	40,628	42,815
S&E	na	na	na	na	na	na	na	na	na	na	na	10,347	10,539	10,992	10,785	10,976	11,643	12,837
Engineering	na	na	na	na	na	na	na	na	na	na	na	3,942	3,792	3,867	3,574	3,469	3,599	3,661
Aerospace	na	na	na	na	na	na	na	na	na	na	na	109	126	111	110	98	108	107
Chemical	na	na	na	na	na	na	na	na	na	na	na	153	164	153	171	174	207	195
Civil	na	na	na	na	na	na	na	na	na	na	na	481	511	501	478	406	425	371
Electrical	na	na	na	na	na	na	na	na	na	na	na	1,430	1,264	1,326	1,089	1,083	1,124	1,062
Industrial	na	na	na	na	na	na	na	na	na	na	na	362	330	376	325	290	272	309
Materials	na	na	na	na	na	na	na	na	na	na	na	73	67	102	98	94	99	108
Mechanical	na	na	na	na	na	na	na	na	na	na	na	466	428	433	432	475	471	505
Other	na	na	na	na	na	na	na	na	na	na	na	868	902	865	871	849	893	1,004
Science	na	na	na	na	na	na	na	na	na	na	na	6,405	6,747	7,125	7,211	7,507	8,044	9,176
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	3,912	3,996	4,390	4,553	4,941	5,507	6,426
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	199	218	184	185	166	161	184
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	1,244	1,416	1,554	1,623	1,723	1,789	1,938

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	37	39	41	42	53	58	43
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	6	5	5	4	5	4	2
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	27	34	27	34	45	48	36
Oceanography	na	na	na	na	na	na	na	na	na	na	na	4	0	9	4	3	6	5
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	2,128	2,070	2,297	2,425	2,727	3,195	3,958
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	1,618	1,567	1,738	1,881	2,174	2,599	3,250
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	510	503	559	544	553	596	708
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	304	253	314	278	272	304	303
Astronomy	na	na	na	na	na	na	na	na	na	na	na	8	6	14	9	10	9	9
Chemistry	na	na	na	na	na	na	na	na	na	na	na	206	171	202	195	183	198	184
Physics	na	na	na	na	na	na	na	na	na	na	na	80	72	93	71	73	94	101
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	10	4	5	3	6	3	9
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	2,493	2,751	2,735	2,658	2,566	2,537	2,750
Psychology	na	na	na	na	na	na	na	na	na	na	na	753	874	908	885	833	883	903
Social sciences	na	na	na	na	na	na	na	na	na	na	na	1,740	1,877	1,827	1,773	1,733	1,654	1,847
Anthropology	na	na	na	na	na	na	na	na	na	na	na	43	38	27	38	39	45	26
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	100	100	108	96	88	81	117
Economics	na	na	na	na	na	na	na	na	na	na	na	219	272	230	211	231	200	219
History of science	na	na	na	na	na	na	na	na	na	na	na	1	2	1	2	2	0	1
Linguistics	na	na	na	na	na	na	na	na	na	na	na	38	41	44	45	27	49	31
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	1,041	1,154
Sociology	na	na	na	na	na	na	na	na	na	na	na	86	84	81	58	61	48	79
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	176	205	196	185	181	190	220
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	27,126	28,462	27,958	28,015	28,212	28,985	29,978
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	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	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	na	na
Aerospace	26	37	29	39	51	55	64	74	74	82	87	na	na	na	na	na	na	na
Chemical	114	120	96	96	135	106	110	103	93	101	115	na	na	na	na	na	na	na
Civil	283	220	203	240	254	298	277	306	298	309	354	na	na	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	na	na
Industrial	192	210	189	273	284	332	319	313	301	272	301	na	na	na	na	na	na	na
Materials	54	55	43	52	53	64	63	65	65	68	70	na	na	na	na	na	na	na
Mechanical	265	358	315	262	347	324	360	343	370	359	385	na	na	na	na	na	na	na
Other	384	385	400	422	457	534	660	707	745	780	844	na	na	na	na	na	na	na

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	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	na	na
Agricultural sciences	94	97	126	99	111	111	84	128	102	137	165	na	na	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	na	na
Earth, atmospheric, and ocean sciences	22	28	37	28	39	31	30	25	38	24	45	na	na	na	na	na	na	na
Atmospheric sciences	4	5	7	4	5	4	5	5	5	3	3	na	na	na	na	na	na	na
Earth sciences	17	17	25	18	28	26	23	16	27	17	37	na	na	na	na	na	na	na
Oceanography	1	6	5	6	6	1	2	4	6	4	5	na	na	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	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	na	na
Mathematics and statistics	180	205	214	221	275	324	396	457	416	431	459	na	na	na	na	na	na	na
Physical sciences	240	220	213	231	196	243	220	279	236	259	291	na	na	na	na	na	na	na
Astronomy	5	5	4	7	6	7	2	4	2	12	7	na	na	na	na	na	na	na
Chemistry	172	153	125	157	128	154	137	177	154	178	186	na	na	na	na	na	na	na
Physics	53	56	66	57	60	74	78	94	78	66	93	na	na	na	na	na	na	na
Other physical sciences	10	6	18	10	2	8	3	4	2	3	5	na	na	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	na	na
Psychology	473	503	530	531	593	597	651	733	724	765	781	na	na	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	na	na
Anthropology	39	39	34	42	43	44	39	51	46	59	53	na	na	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	na	na
Economics	132	113	119	156	157	185	207	191	211	221	194	na	na	na	na	na	na	na
History of science	0	0	2	2	3	1	1	1	1	1	1	na	na	na	na	na	na	na
Linguistics	42	43	26	32	37	41	43	32	35	38	36	na	na	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	na	na
Sociology	66	70	86	95	106	78	71	62	67	67	56	na	na	na	na	na	na	na
Other social sciences	107	90	85	84	117	137	139	147	138	160	195	na	na	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	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	75,931	79,618	80,576	79,680	81,382	82,908
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	12,063	13,112	13,280	13,239	13,334	13,160
Engineering	658	699	735	823	853	869	883	926	977	971	1,098	1,180	1,245	1,255	1,228	1,323	1,269	1,247
Aerospace	7	10	14	7	11	19	22	26	25	19	30	25	18	22	29	18	26	26
Chemical	34	34	31	43	31	56	37	39	46	31	46	42	48	66	50	62	52	52
Civil	93	102	101	96	76	100	88	106	118	106	137	152	169	177	161	148	178	160
Electrical	183	188	189	226	238	230	226	251	260	246	235	291	254	251	235	258	265	244

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Industrial	90	119	141	158	170	152	171	152	155	166	214	232	230	233	239	256	241	235
Materials	15	9	19	14	21	19	12	9	15	25	16	14	19	17	21	21	31	22
Mechanical	91	89	71	78	85	81	86	85	101	86	89	104	116	100	104	115	106	106
Other	145	148	169	201	221	212	241	258	257	292	331	320	391	389	389	445	370	402
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	10,818	11,857	12,052	11,916	12,065	11,913
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	2,652	3,108	3,140	3,337	3,492	3,816
Agricultural sciences	84	96	88	103	102	85	96	113	98	124	132	180	166	187	190	189	196	202
Biological sciences	223	313	288	298	385	377	406	438	500	474	512	599	673	752	785	847	932	1,074
Earth, atmospheric, and ocean sciences	7	21	18	18	22	17	30	23	29	26	18	29	38	45	39	45	30	36
Atmospheric sciences	0	4	2	2	3	3	7	3	4	6	4	4	4	6	6	4	3	4
Earth sciences	6	15	15	13	16	13	21	18	22	18	13	25	33	37	33	40	27	30
Oceanography	1	2	1	3	3	1	2	2	3	2	1	0	1	2	0	1	0	2
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	1,601	1,983	1,994	2,117	2,207	2,364
Computer sciences	650	709	746	977	934	887	853	898	950	919	1,111	1,212	1,420	1,776	1,801	1,913	1,998	2,152
Mathematics and statistics	98	113	113	98	115	135	154	158	156	140	154	164	181	207	193	204	209	212
Physical sciences	117	130	121	112	120	101	152	123	145	143	125	138	174	141	132	139	127	140
Astronomy	0	0	2	1	1	2	3	0	0	4	0	0	2	1	3	1	0	1
Chemistry	65	82	74	76	87	55	93	74	110	97	90	93	129	84	102	97	89	94
Physics	44	41	37	32	27	39	51	43	30	36	30	40	34	49	22	34	33	40
Other physical sciences	8	7	8	3	5	5	5	6	5	6	5	5	9	7	5	7	5	5
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	8,166	8,749	8,912	8,579	8,573	8,097
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	3,127	3,179	3,313	3,089	3,237	3,271
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	5,039	5,570	5,599	5,490	5,336	4,826
Anthropology	33	37	32	33	31	30	32	41	43	30	33	30	42	32	31	28	34	29
Area and ethnic studies	91	86	108	121	127	135	136	142	156	152	145	184	157	142	142	149	141	144
Economics	71	66	76	67	70	96	100	101	120	111	117	121	120	149	124	134	124	113
History of science	0	1	2	0	0	0	1	2	2	1	2	0	0	1	2	1	3	1
Linguistics	4	14	5	7	3	9	13	14	7	16	15	18	17	16	18	21	19	20
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	3,950	4,319	4,312	4,239	4,147	3,580
Sociology	344	294	285	274	301	205	201	190	201	202	205	198	203	220	250	197	159	180
Other social sciences	251	240	252	298	449	433	507	459	445	481	689	545	550	691	720	721	709	759
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	63,868	66,506	67,296	66,441	68,048	69,748
Native Hawaiian or Other Pacific Islander																		
All fields	na	na	na	na	na	na	na	na	na	na	na	1,272	1,521	1,687	1,755	1,519	1,514	1,537
S&E	na	na	na	na	na	na	na	na	na	na	na	230	238	255	273	269	233	294
Engineering	na	na	na	na	na	na	na	na	na	na	na	19	38	34	35	35	26	41

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	2	1	1	0	0	2
Chemical	na	na	na	na	na	na	na	na	na	na	na	0	2	1	1	0	0	0
Civil	na	na	na	na	na	na	na	na	na	na	na	4	8	9	4	7	5	8
Electrical	na	na	na	na	na	na	na	na	na	na	na	5	2	7	5	9	8	6
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	8	2	9	2	4	6
Materials	na	na	na	na	na	na	na	na	na	na	na	1	0	3	0	0	0	1
Mechanical	na	na	na	na	na	na	na	na	na	na	na	2	4	5	0	5	4	7
Other	na	na	na	na	na	na	na	na	na	na	na	7	12	6	15	12	5	11
Science	na	na	na	na	na	na	na	na	na	na	na	211	200	221	238	234	207	253
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	68	61	70	70	78	64	82
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	4	7	15	7	12	2	8
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	23	26	22	20	20	16	19
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	4	0	1	2	2	2	0
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	1	0	0	0	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	3	0	1	2	2	2	0
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	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	41	50
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	28	17	24	35	38	37	45
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	5	6	1	3	4	4	5
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	4	5	7	3	2	3	5
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	2	3	4	2	1	2	3
Physics	na	na	na	na	na	na	na	na	na	na	na	1	2	3	1	1	1	2
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	1	0	0	0	0	0	0
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	143	139	151	168	156	143	171
Psychology	na	na	na	na	na	na	na	na	na	na	na	43	55	59	72	60	55	78
Social sciences	na	na	na	na	na	na	na	na	na	na	na	100	84	92	96	96	88	93
Anthropology	na	na	na	na	na	na	na	na	na	na	na	1	5	1	0	1	3	1
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	7	13	9	10	5	4	8
Economics	na	na	na	na	na	na	na	na	na	na	na	2	2	4	5	0	1	4
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	1	1	0	0	0
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	79	55	70	64	74	68	72
Sociology	na	na	na	na	na	na	na	na	na	na	na	0	1	1	3	0	2	3
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	11	8	6	13	16	10	5
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	1,042	1,283	1,432	1,482	1,250	1,281	1,243

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	419,809	413,610	405,699	396,460	396,186	401,523
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	73,327	73,856	74,278	72,869	72,815	72,596
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	16,022	15,556	15,591	15,263	15,079	15,297
Aerospace	284	277	310	327	444	490	506	534	601	650	600	699	805	694	708	711	758	804
Chemical	501	487	435	431	455	452	481	435	369	388	445	505	561	524	595	590	551	642
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	2,649	2,482
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	2,296	2,442
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	1,744	1,709
Materials	373	293	282	280	304	314	305	328	288	309	304	326	363	364	379	354	432	392
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	2,484	2,588
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	3,934	4,021	4,069	4,087	4,165	4,238
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	57,305	58,300	58,687	57,606	57,736	57,299
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	22,734	23,581	24,339	24,781	25,511	26,526
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	3,992	3,937
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	7,831	8,173
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	1,417	1,444	1,519	1,512	1,433	1,449
Atmospheric sciences	111	99	98	117	120	149	141	140	148	177	164	170	172	169	179	166	145	156
Earth sciences	861	876	890	914	921	963	982	1,006	869	884	910	1,011	1,124	1,174	1,227	1,239	1,180	1,173
Oceanography	64	68	77	94	103	85	94	86	97	87	107	97	121	101	113	107	108	120
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	8,605	9,158	9,524	9,953	10,104	10,809
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	5,997	6,525	6,797	7,223	7,278	7,968
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	2,608	2,633	2,727	2,730	2,826	2,841
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	2,151	2,158
Astronomy	65	47	59	67	76	98	97	91	106	80	93	98	82	101	90	95	86	105
Chemistry	930	992	877	905	1,012	886	963	977	1,032	941	926	964	1,110	1,061	997	1,058	1,078	1,138
Physics	585	627	613	642	790	851	883	820	838	754	855	868	901	995	990	903	931	823
Other physical sciences	195	208	234	211	145	156	152	122	114	119	131	131	138	107	106	91	56	92
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	34,571	34,719	34,348	32,825	32,225	30,773
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	13,983	14,542	14,848	13,955	13,998	13,556
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	20,588	20,177	19,500	18,870	18,227	17,217
Anthropology	686	800	705	743	770	779	786	811	778	843	819	825	863	772	881	857	789	752
Area and ethnic studies	890	792	763	691	838	809	938	825	813	786	797	942	937	920	797	864	764	697
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	1,347	1,304
History of science	20	18	23	13	17	20	29	20	34	25	17	34	24	17	12	15	23	25
Linguistics	295	284	270	258	290	300	298	282	311	383	351	368	414	390	362	378	370	313

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	12,652	12,631	12,170	11,833	11,432	10,671
Sociology	1,254	1,178	1,183	1,177	1,202	858	906	912	915	894	796	863	977	876	847	743	742	719
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	3,179	3,197	3,013	2,873	2,760	2,736
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	346,482	339,754	331,421	323,591	323,371	328,927
More than one race ^c																		
All fields	na	na	na	na	na	na	na	na	na	na	na	5,970	8,751	10,720	12,229	13,375	15,227	16,370
S&E	na	na	na	na	na	na	na	na	na	na	na	1,335	2,067	2,545	2,913	3,105	3,469	3,796
Engineering	na	na	na	na	na	na	na	na	na	na	na	296	392	492	568	585	720	700
Aerospace	na	na	na	na	na	na	na	na	na	na	na	15	20	23	23	30	30	40
Chemical	na	na	na	na	na	na	na	na	na	na	na	15	18	13	14	30	22	29
Civil	na	na	na	na	na	na	na	na	na	na	na	50	87	104	116	95	112	119
Electrical	na	na	na	na	na	na	na	na	na	na	na	62	64	85	103	95	136	119
Industrial	na	na	na	na	na	na	na	na	na	na	na	43	39	56	59	53	66	63
Materials	na	na	na	na	na	na	na	na	na	na	na	5	12	15	16	18	27	19
Mechanical	na	na	na	na	na	na	na	na	na	na	na	36	50	72	98	89	129	131
Other	na	na	na	na	na	na	na	na	na	na	na	70	102	124	139	175	198	180
Science	na	na	na	na	na	na	na	na	na	na	na	1,039	1,675	2,053	2,345	2,520	2,749	3,096
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	341	560	810	902	1,025	1,150	1,419
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	48	71	95	109	128	114	170
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	110	167	283	326	332	387	479
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	9	25	42	53	33	51	44
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	2	3	3	5	4	2
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	9	22	38	45	27	45	37
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	1	1	5	1	2	5
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	141	243	308	358	446	489	623
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	107	180	229	290	345	388	488
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	34	63	79	68	101	101	135
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	33	54	82	56	86	109	103
Astronomy	na	na	na	na	na	na	na	na	na	na	na	3	1	2	2	4	3	5
Chemistry	na	na	na	na	na	na	na	na	na	na	na	17	26	36	31	50	60	52
Physics	na	na	na	na	na	na	na	na	na	na	na	9	23	41	21	29	40	43
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	4	4	3	2	3	6	3
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	698	1,115	1,243	1,443	1,495	1,599	1,677
Psychology	na	na	na	na	na	na	na	na	na	na	na	241	400	480	500	541	623	730
Social sciences	na	na	na	na	na	na	na	na	na	na	na	457	715	763	943	954	976	947
Anthropology	na	na	na	na	na	na	na	na	na	na	na	17	31	36	55	44	45	43

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	35	49	59	60	66	56	56
Economics	na	na	na	na	na	na	na	na	na	na	na	41	50	55	45	47	61	61
History of science	na	na	na	na	na	na	na	na	na	na	na	0	1	1	1	0	2	2
Linguistics	na	na	na	na	na	na	na	na	na	na	na	5	17	17	16	19	26	21
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	267	416	463	579	603	628	572
Sociology	na	na	na	na	na	na	na	na	na	na	na	27	43	46	56	53	42	57
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	65	108	86	131	122	116	135
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	4,635	6,684	8,175	9,316	10,270	11,758	12,574
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	71,618	61,747	57,714	54,875	54,007	48,980
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	12,144	11,618	10,873	9,833	9,948	8,293
Engineering	940	1,050	1,209	1,325	1,435	1,646	1,638	1,753	1,872	2,206	2,398	2,092	2,025	2,111	2,211	1,723	1,755	1,509
Aerospace	9	23	19	29	46	41	57	54	65	47	62	62	39	41	39	35	42	52
Chemical	30	41	53	45	43	80	55	64	56	57	74	60	63	55	53	60	70	70
Civil	141	150	159	189	184	216	226	216	221	331	357	282	277	382	331	219	208	174
Electrical	288	324	421	432	465	524	504	494	535	587	587	471	437	410	595	377	367	310
Industrial	172	165	155	178	205	211	184	231	183	275	353	319	294	289	295	185	229	201
Materials	22	27	19	25	22	27	33	33	40	34	44	35	37	23	16	26	33	45
Mechanical	120	117	151	144	180	223	240	233	267	247	289	261	243	259	283	291	243	203
Other	158	203	232	283	290	324	339	428	505	628	632	602	635	652	599	530	563	454
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	10,119	9,507	8,662	8,110	8,193	6,784
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	3,426	3,321	3,320	3,147	3,170	2,910
Agricultural sciences	144	165	175	184	215	237	248	250	215	257	366	301	320	319	311	290	289	282
Biological sciences	284	298	322	348	403	471	537	624	860	902	956	878	820	771	785	853	917	705
Earth, atmospheric, and ocean sciences	46	60	48	77	64	87	99	85	103	96	131	112	114	95	98	109	81	103
Atmospheric sciences	1	8	5	3	5	6	6	4	5	11	11	8	9	8	12	12	12	11
Earth sciences	43	46	36	68	54	77	85	75	93	78	115	91	95	77	81	85	64	87
Oceanography	2	6	7	6	5	4	8	6	5	7	5	13	10	10	5	12	5	5
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	1,963	1,914	1,905	1,675	1,703	1,657
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	1,607	1,573	1,628	1,397	1,381	1,336
Mathematics and statistics	142	136	158	151	207	240	243	271	312	330	368	370	356	341	277	278	322	321
Physical sciences	136	146	169	159	188	222	206	266	308	287	340	274	209	222	221	220	180	163
Astronomy	8	12	10	16	16	12	9	16	14	13	13	17	9	13	10	7	6	5
Chemistry	82	80	102	64	84	104	87	117	130	122	162	138	100	108	105	99	91	82
Physics	42	45	53	74	84	105	106	128	134	133	147	104	90	94	87	101	72	57
Other physical sciences	4	9	4	5	4	1	4	5	30	19	18	15	10	7	19	13	11	19

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	6,693	6,186	5,342	4,963	5,023	3,874
Psychology	884	939	1,035	1,064	1,157	1,338	1,528	1,719	1,839	2,259	2,508	2,362	2,639	2,357	2,153	1,948	2,063	1,893
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	4,054	3,829	3,189	3,015	2,960	1,981
Anthropology	55	66	76	83	72	105	126	114	111	105	123	139	110	101	112	77	78	71
Area and ethnic studies	110	173	159	140	162	212	354	193	171	179	151	141	94	101	103	108	69	67
Economics	97	93	102	201	253	275	291	276	361	288	451	313	308	214	235	208	152	156
History of science	2	0	5	2	2	2	1	2	1	0	1	3	2	4	1	1	3	1
Linguistics	20	25	27	32	40	40	52	37	54	63	56	58	45	64	42	40	32	28
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	2,277	1,314
Sociology	41	58	55	64	67	90	95	126	132	129	120	128	114	73	63	65	48	45
Other social sciences	161	176	163	175	237	280	281	278	307	413	468	370	378	393	321	307	301	299
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	59,474	50,129	46,841	45,042	44,059	40,687
Temporary visa holder																		
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	89,227	94,489	103,828	117,148	135,986	145,480
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	40,942	43,261	47,344	58,724	73,937	81,486
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	17,584	17,919	19,891	24,460	30,424	32,013
Aerospace	221	251	287	285	291	290	253	181	238	236	265	332	329	287	320	335	398	433
Chemical	631	642	605	708	802	767	698	539	621	659	710	911	995	1,057	1,143	1,263	1,322	1,353
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	2,886	3,222
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	14,132	13,361
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	3,684	4,798
Materials	276	300	244	339	383	339	334	331	336	384	355	406	454	521	595	605	651	726
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	3,868	4,447
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	2,126	2,303	2,574	2,915	3,483	3,673
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	23,358	25,342	27,453	34,264	43,513	49,473
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	16,752	18,011	19,771	26,552	35,482	41,228
Agricultural sciences	516	471	479	515	646	596	561	539	564	576	582	634	682	739	802	793	880	921
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	2,309	2,481
Earth, atmospheric, and ocean sciences	195	172	199	206	258	247	253	216	204	234	241	226	316	317	343	348	353	382
Atmospheric sciences	38	24	28	39	44	46	45	35	26	22	43	21	39	32	44	49	44	53
Earth sciences	142	134	150	157	190	182	188	156	161	185	175	187	260	271	280	282	289	306
Oceanography	15	14	21	10	24	19	20	25	17	27	23	18	17	14	19	17	20	23
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	12,088	13,334	14,918	21,445	30,335	35,817
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	25,311	30,073
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	2,723	3,226	3,692	4,092	5,024	5,744
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	1,605	1,627

TABLE S2-9

Master's degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Astronomy	22	28	35	29	48	37	29	38	38	25	32	51	23	33	41	34	25	37
Chemistry	599	621	606	533	672	623	701	712	712	695	710	792	866	874	876	876	857	852
Physics	483	568	524	602	627	673	678	644	661	593	626	612	688	627	609	690	687	694
Other physical sciences	36	22	23	13	21	23	15	14	14	21	24	18	41	42	37	39	36	44
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	6,606	7,331	7,682	7,712	8,031	8,245
Psychology	470	468	485	684	619	651	630	663	654	629	684	714	784	928	841	820	987	936
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	5,822	6,403	6,841	6,892	7,044	7,309
Anthropology	86	88	99	83	105	73	92	105	92	112	106	85	95	106	101	109	99	114
Area and ethnic studies	229	228	224	226	253	236	261	202	253	249	265	261	253	292	311	294	325	300
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	2,314	2,497
History of science	2	5	2	7	3	6	9	2	8	5	3	5	5	7	7	4	3	2
Linguistics	173	158	169	172	176	189	171	179	168	173	174	175	192	188	179	242	214	215
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	3,415	3,416
Sociology	191	157	191	185	199	169	168	164	139	161	153	164	172	171	169	163	177	155
Other social sciences	274	288	321	285	326	354	350	349	319	416	424	381	452	439	444	464	497	610
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	48,285	51,228	56,484	58,424	62,049	63,994

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

^a Beginning in 2008, Hispanic may be any race and race categories exclude Hispanic origin.

^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 people 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 Center for Science and Engineering Statistics, National Science Foundation, Integrated Data System (IDS).

TABLE S2-10

Doctoral degrees awarded, by citizenship, sex, and field: 2000–17

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	62,181	64,887	67,591	69,115	69,836	71,142
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	39,864	41,563	43,995	44,521	44,845	45,729
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	10,358	10,547
Aerospace	203	202	193	178	190	205	209	234	232	257	228	237	275	310	336	310	332	342
Chemical	665	680	693	608	708	872	911	915	950	886	929	951	969	1,001	1,169	1,197	1,181	1,169
Civil	628	647	669	685	736	830	864	935	909	902	851	894	922	1,036	1,154	1,230	1,166	1,246
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	2,620	2,669
Industrial	218	262	275	258	280	286	302	364	346	333	290	319	348	389	400	354	375	380
Materials	454	454	381	457	494	514	611	663	665	661	653	651	715	757	734	810	842	877
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	1,534	1,498
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	2,308	2,366
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	30,991	32,074	33,860	34,115	34,487	35,182
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	22,152	22,808	24,098	24,165	24,774	25,403
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	1,343	1,364
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	7,858	8,003
Earth, atmospheric, and ocean sciences	579	542	562	544	540	572	600	727	683	724	713	687	737	794	861	827	912	890
Atmospheric sciences	87	70	68	78	77	96	95	87	106	110	100	120	125	137	126	146	142	153
Earth sciences	393	380	404	368	369	379	430	513	469	503	496	467	497	530	606	575	631	629
Oceanography	99	92	90	98	94	97	75	127	108	111	117	100	115	127	129	106	139	108
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	3,791	3,859
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	1,936	1,934
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	1,855	1,925
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	4,505	4,635	5,056	5,343	5,792	6,201
Medical sciences	893	864	882	850	1,010	1,144	1,252	1,293	1,320	1,254	1,506	1,497	1,716	1,867	2,148	2,433	2,597	2,853
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	2,789	2,768	2,908	2,910	3,195	3,348
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	5,078	5,086
Astronomy	101	103	70	101	101	115	114	128	163	143	160	166	170	174	179	153	169	196
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	3,002	2,990
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	1,833	1,826
Other physical sciences	45	40	44	30	20	25	29	33	40	41	32	39	37	59	79	72	74	74
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	8,839	9,266	9,762	9,950	9,713	9,779
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	3,867	4,280	4,574	4,533	4,526	4,486
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	5,187	5,293
Anthropology	471	428	508	487	537	459	480	519	491	527	534	596	585	595	606	577	591	581

TABLE S2-10

Doctoral degrees awarded, by citizenship, sex, and field: 2000–17

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Area and ethnic studies	212	216	209	176	204	184	220	226	246	226	237	257	274	272	316	309	302	323
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	1,298	1,325
History of science	23	21	20	27	20	28	34	27	34	19	31	27	24	29	41	31	31	30
Linguistics	202	193	152	201	194	172	216	219	215	240	203	235	249	237	240	266	259	229
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	1,518	1,557
Sociology	602	550	547	598	564	534	574	573	594	635	612	671	635	626	692	733	658	697
Other social sciences	452	442	433	355	388	373	413	402	448	438	435	475	532	493	544	596	530	551
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	22,317	23,324	23,596	24,594	24,991	25,413
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	31,322	32,739	33,760	34,455	34,810	35,291
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	22,107	23,021	24,072	24,371	24,699	25,048
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	7,929	8,037
Aerospace	179	179	174	154	170	178	184	204	208	224	188	207	235	261	283	263	283	304
Chemical	529	518	527	459	530	667	667	682	701	649	660	671	676	703	841	836	818	822
Civil	513	520	541	549	576	630	667	685	677	688	605	655	681	738	840	859	852	853
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	2,202	2,213
Industrial	175	209	200	188	228	221	220	260	249	247	218	219	244	276	278	233	262	261
Materials	371	363	307	359	403	392	456	494	509	489	487	495	543	555	537	593	626	649
Mechanical	732	816	715	698	736	847	988	991	989	1,026	897	1,010	1,083	1,172	1,237	1,363	1,293	1,260
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	1,593	1,675
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	15,240	15,709	16,248	16,391	16,770	17,011
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	11,631	12,003	12,512	12,487	12,879	13,106
Agricultural sciences	663	601	637	672	640	642	612	630	635	637	527	562	604	648	635	716	715	688
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	3,722	3,823
Earth, atmospheric, and ocean sciences	413	386	385	376	360	375	382	441	439	436	424	420	418	429	487	468	539	510
Atmospheric sciences	70	55	47	57	54	67	62	54	85	77	66	84	76	79	85	91	91	85
Earth sciences	273	270	284	264	245	256	282	318	295	308	292	281	282	298	345	326	379	375
Oceanography	70	61	54	55	61	52	38	69	59	51	66	55	60	52	57	51	69	50
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	2,874	2,900
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	1,547	1,497
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	1,327	1,403
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	1,271	1,330	1,328	1,457	1,522	1,671
Medical sciences	419	393	431	393	419	466	500	510	531	479	534	547	608	646	681	699	696	795
Other health sciences	511	634	792	653	847	1,268	1,431	1,714	1,683	1,669	589	638	663	684	647	758	826	876
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	3,507	3,514
Astronomy	76	83	56	73	69	77	74	85	124	89	99	109	113	111	117	101	110	123

TABLE S2-10

Doctoral degrees awarded, by citizenship, sex, and field: 2000–17

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	1,868	1,836
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	1,479	1,506
Other physical sciences	32	33	30	23	12	23	27	23	26	27	21	27	28	43	48	50	50	49
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	3,891	3,905
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	1,233	1,218
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	2,658	2,687
Anthropology	205	181	209	190	244	198	208	199	190	212	220	238	211	206	228	224	248	217
Area and ethnic studies	106	86	107	67	97	81	98	95	103	88	106	116	113	130	129	125	128	118
Economics	733	724	690	687	689	772	733	749	764	753	740	746	850	791	797	817	848	873
History of science	16	18	16	13	11	17	17	13	17	12	17	19	17	11	23	15	12	13
Linguistics	86	84	63	79	78	60	85	89	95	88	88	93	116	97	94	117	101	92
Political science and public administration	636	683	573	646	620	609	642	577	584	698	724	716	750	808	757	856	773	829
Sociology	248	229	215	245	226	205	206	211	234	255	234	252	233	259	257	292	281	274
Other social sciences	242	235	245	194	208	212	222	197	224	230	230	223	260	242	238	268	267	271
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	9,215	9,718	9,688	10,084	10,111	10,243
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	30,859	32,148	33,831	34,660	35,026	35,851
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	17,757	18,542	19,923	20,150	20,146	20,681
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	2,429	2,510
Aerospace	24	23	19	24	20	27	25	30	24	33	40	30	40	49	53	47	49	38
Chemical	136	162	166	149	178	205	244	233	249	237	269	280	293	298	328	361	363	347
Civil	115	127	128	136	160	200	197	250	232	214	246	239	241	298	314	371	314	393
Electrical	187	197	148	172	216	252	298	376	388	338	382	387	424	364	413	390	418	456
Industrial	43	53	75	70	52	65	82	104	97	86	72	100	104	113	122	121	113	119
Materials	83	91	74	98	91	122	155	169	156	172	166	156	172	202	197	217	216	228
Mechanical	89	90	98	88	99	116	151	147	160	160	125	162	194	212	217	223	241	238
Other	158	178	188	172	231	235	332	376	442	472	515	544	538	641	667	696	715	691
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	15,751	16,365	17,612	17,724	17,717	18,171
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	10,521	10,805	11,586	11,678	11,895	12,297
Agricultural sciences	321	333	332	388	376	362	425	438	445	506	455	491	540	570	593	665	628	676
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	4,136	4,180
Earth, atmospheric, and ocean sciences	166	156	177	168	180	197	218	286	244	288	289	267	319	365	374	359	373	380
Atmospheric sciences	17	15	21	21	23	29	33	33	21	33	34	36	49	58	41	55	51	68
Earth sciences	120	110	120	104	124	123	148	195	174	195	204	186	215	232	261	249	252	254
Oceanography	29	31	36	43	33	45	37	58	49	60	51	45	55	75	72	55	70	58
Mathematics and computer sciences	405	418	439	443	502	552	691	734	796	827	812	765	832	882	942	942	917	959

TABLE S2-10

Doctoral degrees awarded, by citizenship, sex, and field: 2000–17

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Computer sciences	131	136	171	168	201	214	307	328	373	351	336	311	361	351	403	439	389	437
Mathematics and statistics	274	282	268	275	301	338	384	406	423	476	476	454	471	531	539	503	528	522
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	3,234	3,305	3,728	3,886	4,270	4,530
Medical sciences	474	471	451	457	591	678	752	783	789	775	972	950	1,108	1,221	1,467	1,734	1,901	2,058
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	2,126	2,084	2,261	2,152	2,369	2,472
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	1,571	1,572
Astronomy	25	20	14	28	32	38	40	43	39	54	61	57	57	63	62	52	59	73
Chemistry	664	719	691	707	694	770	893	964	901	1,024	994	1,047	1,028	1,102	1,150	1,206	1,134	1,154
Physics	158	167	170	190	179	182	234	265	280	293	305	302	350	335	331	367	354	320
Other physical sciences	13	7	14	7	8	2	2	10	14	14	11	12	9	16	31	22	24	25
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	5,230	5,560	6,026	6,046	5,822	5,874
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	2,808	3,118	3,361	3,343	3,293	3,268
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	2,529	2,606
Anthropology	266	247	299	297	293	261	272	320	301	315	314	358	374	389	378	353	343	364
Area and ethnic studies	106	130	102	109	107	103	122	131	143	138	131	141	161	142	187	184	174	205
Economics	268	292	271	280	289	339	324	358	408	419	380	406	421	436	415	466	450	452
History of science	7	3	4	14	9	11	17	14	17	7	14	8	7	18	18	16	19	17
Linguistics	116	109	89	122	116	112	131	130	120	152	115	142	133	140	146	149	158	137
Political science and public administration	383	364	419	409	381	440	456	516	520	546	588	598	652	699	780	766	745	728
Sociology	354	321	332	353	338	329	368	362	360	380	378	419	402	367	435	441	377	423
Other social sciences	210	207	188	161	180	161	191	205	224	208	205	252	272	251	306	328	263	280
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	13,102	13,606	13,908	14,510	14,880	15,170
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	45,313	47,233	49,267	50,859	51,317	52,258
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	26,093	27,209	28,785	29,338	29,622	30,137
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	4,602	4,574
Aerospace	125	101	77	72	73	91	80	108	103	137	122	130	163	169	208	194	208	214
Chemical	364	357	354	295	340	360	423	373	417	437	469	440	442	428	520	564	559	563
Civil	319	300	273	283	257	296	296	359	330	348	347	353	366	410	465	535	468	470
Electrical	641	587	506	478	531	567	560	645	704	711	757	815	847	813	822	855	810	746
Industrial	104	109	115	93	119	107	117	129	125	112	116	124	124	133	136	111	126	142
Materials	240	217	172	198	205	191	242	286	284	281	316	283	363	348	348	374	415	437
Mechanical	384	414	335	336	307	338	388	376	406	472	425	505	556	614	643	683	680	654
Other	479	477	429	482	515	502	608	718	811	876	955	1,063	1,065	1,208	1,309	1,304	1,336	1,348
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	22,167	23,086	24,334	24,718	25,020	25,563

TABLE S2-10

Doctoral degrees awarded, by citizenship, sex, and field: 2000–17

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	15,112	15,546	16,333	16,579	17,091	17,659
Agricultural sciences	553	544	549	626	601	611	640	643	668	715	639	660	694	770	755	888	849	825
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	5,740	5,930
Earth, atmospheric, and ocean sciences	409	362	368	376	356	360	389	481	436	477	481	472	498	540	583	566	610	622
Atmospheric sciences	57	40	43	46	45	54	45	48	58	68	50	83	75	91	85	99	96	106
Earth sciences	280	258	266	259	245	244	296	347	302	333	350	312	339	363	395	391	411	427
Oceanography	72	64	59	71	66	62	48	86	76	76	81	77	84	86	103	76	103	89
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	1,798	1,827
Computer sciences	402	395	410	413	455	500	551	680	667	730	782	772	819	849	875	864	816	845
Mathematics and statistics	588	525	438	513	508	540	583	645	671	788	863	849	852	912	948	900	982	982
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	3,835	3,991	4,392	4,667	5,078	5,440
Medical sciences	615	582	568	577	655	735	816	862	910	848	1,142	1,108	1,248	1,393	1,656	1,945	2,090	2,319
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	2,587	2,598	2,736	2,722	2,988	3,121
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	3,016	3,015
Astronomy	76	78	53	79	75	73	73	89	117	98	119	108	124	120	131	118	124	140
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	1,806	1,838
Physics	708	677	604	591	562	585	635	696	754	781	808	928	985	970	951	1,028	1,041	1,004
Other physical sciences	28	18	32	16	11	12	14	17	22	21	20	24	16	31	38	41	45	33
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	7,055	7,540	8,001	8,139	7,929	7,904
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	3,616	4,017	4,320	4,261	4,292	4,217
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	3,637	3,687
Anthropology	409	356	430	420	466	392	425	433	416	431	444	505	490	508	507	489	486	485
Area and ethnic studies	180	180	180	149	168	154	187	202	190	178	191	214	220	240	265	263	254	262
Economics	474	422	419	377	396	368	371	369	438	408	459	456	538	535	500	566	537	538
History of science	18	20	16	24	14	21	28	16	29	12	25	24	17	24	29	19	25	25
Linguistics	105	100	84	102	105	95	114	123	114	145	118	146	139	131	139	155	152	140
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	1,221	1,223
Sociology	510	473	474	492	460	436	466	459	477	499	504	555	536	517	580	623	552	591
Other social sciences	372	347	335	279	308	276	315	310	321	318	320	362	413	387	427	479	410	423
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	19,220	20,024	20,482	21,521	21,695	22,121
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	20,640	21,586	22,143	22,954	23,048	23,286
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	12,925	13,460	13,972	14,320	14,524	14,645
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	3,475	3,409
Aerospace	108	85	67	63	64	81	69	92	90	119	102	115	139	142	172	164	177	188
Chemical	275	271	267	225	245	277	306	279	287	311	329	299	307	302	380	402	402	405

TABLE S2-10

Doctoral degrees awarded, by citizenship, sex, and field: 2000–17

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Civil	248	224	206	204	178	200	211	268	219	240	234	238	244	271	300	353	310	287
Electrical	557	524	449	418	457	477	497	555	595	597	638	685	689	708	704	743	698	620
Industrial	81	77	76	66	90	79	73	88	79	74	81	87	75	90	93	77	94	95
Materials	186	170	128	155	169	141	176	212	217	194	224	217	275	247	256	276	323	329
Mechanical	330	372	298	297	258	296	329	319	339	391	363	421	463	505	548	562	564	553
Other	375	356	319	379	393	390	447	504	550	592	630	731	733	839	896	879	907	932
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	10,000	10,356	10,623	10,864	11,049	11,236
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	7,364	7,557	7,803	7,946	8,133	8,346
Agricultural sciences	359	334	344	388	367	376	381	365	394	365	318	343	364	400	390	449	439	396
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	2,710	2,842
Earth, atmospheric, and ocean sciences	289	243	233	249	226	234	241	276	268	286	282	282	274	284	306	314	344	345
Atmospheric sciences	46	34	32	32	32	42	32	30	50	52	32	61	52	55	58	70	64	58
Earth sciences	195	171	168	181	152	161	185	204	180	201	207	181	180	195	203	209	232	242
Oceanography	48	38	33	36	42	31	24	42	38	33	43	40	42	34	45	35	48	45
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	1,374	1,360
Computer sciences	329	311	308	323	345	397	421	535	514	569	605	624	655	668	688	675	644	631
Mathematics and statistics	423	380	309	364	355	388	432	452	453	553	618	619	628	670	694	673	730	729
Medical and other health sciences	687	766	955	830	1,016	1,460	1,639	1,918	1,886	1,878	878	927	982	1,036	1,041	1,143	1,200	1,331
Medical sciences	261	239	245	241	235	269	286	281	292	280	351	344	378	424	453	457	450	539
Other health sciences	426	527	710	589	781	1,191	1,353	1,637	1,594	1,598	527	583	604	612	588	686	750	792
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	2,066	2,072
Astronomy	56	62	43	58	50	45	47	58	87	57	69	68	82	75	86	76	77	88
Chemistry	885	905	892	911	889	871	943	912	898	966	932	941	953	973	1,023	1,065	1,116	1,125
Physics	626	576	510	480	469	499	526	573	615	637	662	765	805	788	786	837	839	841
Other physical sciences	18	14	21	12	6	11	12	10	15	17	14	18	12	22	22	27	34	18
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	2,916	2,890
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	1,163	1,140
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	1,753	1,750
Anthropology	167	144	175	160	218	157	180	166	157	164	177	196	160	177	175	181	193	174
Area and ethnic studies	81	69	92	56	80	65	81	88	81	67	87	93	90	112	109	101	107	91
Economics	336	275	288	260	274	231	251	251	283	274	302	300	360	367	343	369	374	359
History of science	13	17	13	11	8	11	14	6	13	9	14	16	13	11	14	9	9	12
Linguistics	46	41	31	43	38	33	45	49	52	51	50	61	62	52	58	72	55	52
Political science and public administration	523	543	456	488	481	446	472	409	418	487	520	537	567	610	605	641	588	643
Sociology	206	186	185	190	165	153	162	164	177	201	186	194	196	215	209	235	231	224
Other social sciences	191	180	173	144	164	148	157	135	160	163	168	155	194	177	178	204	196	195

TABLE S2-10

Doctoral degrees awarded, by citizenship, sex, and field: 2000–17

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	7,715	8,126	8,171	8,634	8,524	8,641
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	24,673	25,647	27,124	27,905	28,269	28,972
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	13,168	13,749	14,813	15,018	15,098	15,492
Engineering	496	483	451	430	493	511	606	677	804	856	906	920	1,001	1,019	1,102	1,164	1,127	1,165
Aerospace	17	16	10	9	9	10	11	16	13	18	20	15	24	27	36	30	31	26
Chemical	89	86	87	70	95	83	117	94	130	126	140	141	135	126	140	162	157	158
Civil	71	76	67	79	79	96	85	91	111	108	113	115	122	139	165	182	158	183
Electrical	84	63	57	60	74	90	63	90	109	114	119	130	158	105	118	112	112	126
Industrial	23	32	39	27	29	28	44	41	46	38	35	37	49	43	43	34	32	47
Materials	54	47	44	43	36	50	66	74	67	87	92	66	88	101	92	98	92	108
Mechanical	54	42	37	39	49	42	59	57	67	81	62	84	93	109	95	121	116	101
Other	104	121	110	103	122	112	161	214	261	284	325	332	332	369	413	425	429	416
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	12,167	12,730	13,711	13,854	13,971	14,327
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	7,748	7,989	8,530	8,633	8,958	9,313
Agricultural sciences	194	210	205	238	234	235	259	278	274	350	321	317	330	370	365	439	410	429
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	3,030	3,088
Earth, atmospheric, and ocean sciences	120	119	135	127	130	126	148	205	168	191	199	190	224	256	277	252	266	277
Atmospheric sciences	11	6	11	14	13	12	13	18	8	16	18	22	23	36	27	29	32	48
Earth sciences	85	87	98	78	93	83	111	143	122	132	143	131	159	168	192	182	179	185
Oceanography	24	26	26	35	24	31	24	44	38	43	38	37	42	52	58	41	55	44
Mathematics and computer sciences	238	229	231	239	263	255	281	338	371	396	422	378	388	423	441	416	424	467
Computer sciences	73	84	102	90	110	103	130	145	153	161	177	148	164	181	187	189	172	214
Mathematics and statistics	165	145	129	149	153	152	151	193	218	235	245	230	224	242	254	227	252	253
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	2,853	2,955	3,351	3,524	3,878	4,109
Medical sciences	354	343	323	336	420	466	530	581	618	568	791	764	870	969	1,203	1,488	1,640	1,780
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	1,983	1,986	2,148	2,036	2,238	2,329
Physical sciences	563	599	578	599	555	610	655	713	692	809	812	860	857	916	906	969	950	943
Astronomy	20	16	10	21	25	28	26	31	30	41	50	40	42	45	45	42	47	52
Chemistry	451	478	463	463	432	495	518	552	516	620	610	651	631	680	680	722	690	713
Physics	82	101	94	111	93	86	109	123	139	144	146	163	180	182	165	191	202	163
Other physical sciences	10	4	11	4	5	1	2	7	7	4	6	6	4	9	16	14	11	15
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	4,419	4,741	5,181	5,221	5,013	5,014
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	2,622	2,939	3,191	3,155	3,129	3,077
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	1,884	1,937
Anthropology	242	212	255	260	248	235	245	267	259	267	267	309	330	331	332	308	293	311

TABLE S2-10

Doctoral degrees awarded, by citizenship, sex, and field: 2000–17

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Area and ethnic studies	99	111	88	93	88	89	106	114	109	111	104	121	130	128	156	162	147	171
Economics	138	147	131	117	122	137	120	118	155	134	157	156	178	168	157	197	163	179
History of science	5	3	3	13	6	10	14	10	16	3	11	8	4	13	15	10	16	13
Linguistics	59	59	53	59	67	62	69	74	62	94	68	85	77	79	81	83	97	88
Political science and public administration	333	316	365	339	328	360	355	402	404	432	447	476	519	571	629	643	633	580
Sociology	304	287	289	302	295	283	304	295	300	298	318	361	340	302	371	388	321	367
Other social sciences	181	167	162	135	144	128	158	175	161	155	152	207	219	210	249	275	214	228
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	11,505	11,898	12,311	12,887	13,171	13,480

Note(s)
Doctoral degree 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 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 degree-research/scholarship, doctor's degree-professional practice, and doctor's degree-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 degree-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 degree-research/scholarship. This change primarily affects data for other health sciences. Please note the different aggregations used in this table. S&E here includes medical and other health sciences, which is under non-S&E in other tables.

Source(s)
National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Center for Science and Engineering Statistics, National Science Foundation, Integrated Data System (IDS).

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	62,181	64,887	67,591	69,115	69,836	71,142
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	39,864	41,563	43,995	44,521	44,845	45,729
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	10,358	10,547
Aerospace	203	202	193	178	190	205	209	234	232	257	228	237	275	310	336	310	332	342
Chemical	665	680	693	608	708	872	911	915	950	886	929	951	969	1,001	1,169	1,197	1,181	1,169
Civil	628	647	669	685	736	830	864	935	909	902	851	894	922	1,036	1,154	1,230	1,166	1,246
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	2,620	2,669
Industrial	218	262	275	258	280	286	302	364	346	333	290	319	348	389	400	354	375	380
Materials	454	454	381	457	494	514	611	663	665	661	653	651	715	757	734	810	842	877
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	1,534	1,498
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	2,308	2,366
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	30,991	32,074	33,860	34,115	34,487	35,182
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	22,152	22,808	24,098	24,165	24,774	25,403
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	1,343	1,364
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	7,858	8,003
Earth, atmospheric, and ocean sciences	579	542	562	544	540	572	600	727	683	724	713	687	737	794	861	827	912	890
Atmospheric sciences	87	70	68	78	77	96	95	87	106	110	100	120	125	137	126	146	142	153
Earth sciences	393	380	404	368	369	379	430	513	469	503	496	467	497	530	606	575	631	629
Oceanography	99	92	90	98	94	97	75	127	108	111	117	100	115	127	129	106	139	108
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	3,791	3,859
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	1,936	1,934
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	1,855	1,925
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	4,505	4,635	5,056	5,343	5,792	6,201
Medical sciences	893	864	882	850	1,010	1,144	1,252	1,293	1,320	1,254	1,506	1,497	1,716	1,867	2,148	2,433	2,597	2,853
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	2,789	2,768	2,908	2,910	3,195	3,348
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	5,078	5,086
Astronomy	101	103	70	101	101	115	114	128	163	143	160	166	170	174	179	153	169	196
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	3,002	2,990
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	1,833	1,826
Other physical sciences	45	40	44	30	20	25	29	33	40	41	32	39	37	59	79	72	74	74
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	8,839	9,266	9,762	9,950	9,713	9,779
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	3,867	4,280	4,574	4,533	4,526	4,486
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	5,187	5,293
Anthropology	471	428	508	487	537	459	480	519	491	527	534	596	585	595	606	577	591	581
Area and ethnic studies	212	216	209	176	204	184	220	226	246	226	237	257	274	272	316	309	302	323

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	1,298	1,325
History of science	23	21	20	27	20	28	34	27	34	19	31	27	24	29	41	31	31	30
Linguistics	202	193	152	201	194	172	216	219	215	240	203	235	249	237	240	266	259	229
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	1,518	1,557
Sociology	602	550	547	598	564	534	574	573	594	635	612	671	635	626	692	733	658	697
Other social sciences	452	442	433	355	388	373	413	402	448	438	435	475	532	493	544	596	530	551
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	22,317	23,324	23,596	24,594	24,991	25,413
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	45,313	47,233	49,267	50,859	51,317	52,258
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	26,093	27,209	28,785	29,338	29,622	30,137
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	4,602	4,574
Aerospace	125	101	77	72	73	91	80	108	103	137	122	130	163	169	208	194	208	214
Chemical	364	357	354	295	340	360	423	373	417	437	469	440	442	428	520	564	559	563
Civil	319	300	273	283	257	296	296	359	330	348	347	353	366	410	465	535	468	470
Electrical	641	587	506	478	531	567	560	645	704	711	757	815	847	813	822	855	810	746
Industrial	104	109	115	93	119	107	117	129	125	112	116	124	124	133	136	111	126	142
Materials	240	217	172	198	205	191	242	286	284	281	316	283	363	348	348	374	415	437
Mechanical	384	414	335	336	307	338	388	376	406	472	425	505	556	614	643	683	680	654
Other	479	477	429	482	515	502	608	718	811	876	955	1,063	1,065	1,208	1,309	1,304	1,336	1,348
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	22,167	23,086	24,334	24,718	25,020	25,563
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	15,112	15,546	16,333	16,579	17,091	17,659
Agricultural sciences	553	544	549	626	601	611	640	643	668	715	639	660	694	770	755	888	849	825
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	5,740	5,930
Earth, atmospheric, and ocean sciences	409	362	368	376	356	360	389	481	436	477	481	472	498	540	583	566	610	622
Atmospheric sciences	57	40	43	46	45	54	45	48	58	68	50	83	75	91	85	99	96	106
Earth sciences	280	258	266	259	245	244	296	347	302	333	350	312	339	363	395	391	411	427
Oceanography	72	64	59	71	66	62	48	86	76	76	81	77	84	86	103	76	103	89
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	1,798	1,827
Computer sciences	402	395	410	413	455	500	551	680	667	730	782	772	819	849	875	864	816	845
Mathematics and statistics	588	525	438	513	508	540	583	645	671	788	863	849	852	912	948	900	982	982
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	3,835	3,991	4,392	4,667	5,078	5,440
Medical sciences	615	582	568	577	655	735	816	862	910	848	1,142	1,108	1,248	1,393	1,656	1,945	2,090	2,319
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	2,587	2,598	2,736	2,722	2,988	3,121
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	3,016	3,015
Astronomy	76	78	53	79	75	73	73	89	117	98	119	108	124	120	131	118	124	140
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	1,806	1,838

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Physics	708	677	604	591	562	585	635	696	754	781	808	928	985	970	951	1,028	1,041	1,004
Other physical sciences	28	18	32	16	11	12	14	17	22	21	20	24	16	31	38	41	45	33
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	7,055	7,540	8,001	8,139	7,929	7,904
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	3,616	4,017	4,320	4,261	4,292	4,217
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	3,637	3,687
Anthropology	409	356	430	420	466	392	425	433	416	431	444	505	490	508	507	489	486	485
Area and ethnic studies	180	180	180	149	168	154	187	202	190	178	191	214	220	240	265	263	254	262
Economics	474	422	419	377	396	368	371	369	438	408	459	456	538	535	500	566	537	538
History of science	18	20	16	24	14	21	28	16	29	12	25	24	17	24	29	19	25	25
Linguistics	105	100	84	102	105	95	114	123	114	145	118	146	139	131	139	155	152	140
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	1,221	1,223
Sociology	510	473	474	492	460	436	466	459	477	499	504	555	536	517	580	623	552	591
Other social sciences	372	347	335	279	308	276	315	310	321	318	320	362	413	387	427	479	410	423
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	19,220	20,024	20,482	21,521	21,695	22,121
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	2,707	2,938	3,239	3,554	3,891	3,929
S&E	775	905	840	878	1,057	1,121	1,190	1,301	1,499	1,335	1,312	1,397	1,483	1,641	1,828	2,019	2,240	2,181
Engineering	86	88	88	106	101	98	105	138	130	153	196	182	191	202	247	286	285	306
Aerospace	2	7	3	4	3	4	0	7	3	8	7	8	9	11	16	8	15	9
Chemical	18	8	17	13	9	20	20	16	20	22	33	23	30	17	28	31	39	33
Civil	11	14	6	14	21	13	16	25	14	21	26	18	27	24	28	40	35	41
Electrical	17	17	26	22	19	14	11	33	27	27	42	41	36	34	41	54	49	52
Industrial	3	4	9	2	2	4	12	12	9	6	11	10	5	10	12	11	9	9
Materials	7	10	5	9	6	13	12	9	7	10	19	9	14	16	26	26	31	32
Mechanical	10	16	11	15	13	14	12	13	17	28	23	31	28	34	34	35	40	48
Other	18	12	11	27	28	16	22	23	33	31	35	42	42	56	62	81	67	82
Science	689	817	752	772	956	1,023	1,085	1,163	1,369	1,182	1,116	1,215	1,292	1,439	1,581	1,733	1,955	1,875
Natural sciences	319	386	342	382	468	503	573	619	803	727	674	692	741	820	874	1,014	1,092	1,102
Agricultural sciences	13	21	20	16	17	14	36	15	18	21	33	45	41	45	49	47	58	54
Biological sciences	149	155	139	171	186	216	212	226	274	282	326	324	329	393	379	425	454	440
Earth, atmospheric, and ocean sciences	9	10	4	8	10	11	12	18	17	14	16	14	18	24	21	31	27	38
Atmospheric sciences	1	0	1	1	0	1	2	2	2	0	0	1	2	2	3	2	8	7
Earth sciences	6	6	1	3	10	9	10	12	13	12	13	11	11	19	13	25	16	23
Oceanography	2	4	2	4	0	1	0	4	2	2	3	2	5	3	5	4	3	8
Mathematics and computer sciences	25	29	28	28	41	38	33	38	45	58	48	48	65	74	66	77	98	91
Computer sciences	13	12	19	11	18	17	6	17	16	23	17	19	26	40	31	42	36	45

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Mathematics and statistics	12	17	9	17	23	21	27	21	29	35	31	29	39	34	35	35	62	46
Medical and other health sciences	56	90	82	94	141	148	187	230	337	237	143	138	156	151	208	280	296	305
Medical sciences	16	28	22	29	31	30	34	51	84	38	63	67	65	79	100	150	135	148
Other health sciences	40	62	60	65	110	118	153	179	253	199	80	71	91	72	108	130	161	157
Physical sciences	67	81	69	65	73	76	93	92	112	115	108	123	132	133	151	154	159	174
Astronomy	3	4	1	2	2	2	1	5	3	4	4	5	5	3	3	9	6	7
Chemistry	45	59	48	44	58	57	70	65	89	86	72	79	76	89	100	100	109	109
Physics	19	18	19	19	13	16	21	22	20	25	32	37	51	41	48	44	43	57
Other physical sciences	0	0	1	0	0	1	1	0	0	0	0	2	0	0	0	1	1	1
Social and behavioral sciences	370	431	410	390	488	520	512	544	566	455	442	523	551	619	707	719	863	773
Psychology	267	308	297	247	339	388	367	417	420	316	277	335	342	408	483	488	590	530
Social sciences	103	123	113	143	149	132	145	127	146	139	165	188	209	211	224	231	273	243
Anthropology	8	19	20	29	37	20	25	18	29	34	27	40	36	36	51	33	40	32
Area and ethnic studies	7	9	10	8	13	12	13	14	11	8	16	14	21	24	23	26	34	33
Economics	18	18	13	20	25	22	21	22	16	18	22	16	17	37	23	35	37	22
History of science	1	2	0	0	0	1	2	1	0	0	2	1	1	0	2	1	1	0
Linguistics	1	5	3	4	2	3	4	3	3	4	3	3	3	5	7	4	13	9
Political science and public administration	28	34	35	36	43	35	35	34	36	37	46	50	58	49	61	54	73	64
Sociology	24	24	22	37	24	29	37	23	38	22	29	49	53	40	34	54	40	67
Other social sciences	16	12	10	9	5	10	8	12	13	16	20	15	20	20	23	24	35	16
Non-S&E	607	689	663	731	682	793	790	837	911	1,084	982	1,060	1,224	1,297	1,411	1,535	1,651	1,748
Not Hispanic or Latino																		
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	42,606	44,295	46,028	47,305	47,426	48,329
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	24,610	25,568	26,957	27,319	27,382	27,956
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	4,317	4,268
Aerospace	123	94	74	68	70	87	80	101	100	129	115	122	154	158	192	186	193	205
Chemical	346	349	337	282	331	340	403	357	397	415	436	417	412	411	492	533	520	530
Civil	308	286	267	269	236	283	280	334	316	327	321	335	339	386	437	495	433	429
Electrical	624	570	480	456	512	553	549	612	677	684	715	774	811	779	781	801	761	694
Industrial	101	105	106	91	117	103	105	117	116	106	105	114	119	123	124	100	117	133
Materials	233	207	167	189	199	178	230	277	277	271	297	274	349	332	322	348	384	405
Mechanical	374	398	324	321	294	324	376	363	389	444	402	474	528	580	609	648	640	606
Other	461	465	418	455	487	486	586	695	778	845	920	1,021	1,023	1,152	1,247	1,223	1,269	1,266
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	20,875	21,647	22,753	22,985	23,065	23,688
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	14,371	14,726	15,459	15,565	15,999	16,557
Agricultural sciences	540	523	529	610	584	597	604	628	650	694	606	615	653	725	706	841	791	771

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	5,286	5,490
Earth, atmospheric, and ocean sciences	400	352	364	368	346	349	377	463	419	463	465	458	480	516	562	535	583	584
Atmospheric sciences	56	40	42	45	45	53	43	46	56	68	50	82	73	89	82	97	88	99
Earth sciences	274	252	265	256	235	235	286	335	289	321	337	301	328	344	382	366	395	404
Oceanography	70	60	57	67	66	61	48	82	74	74	78	75	79	83	98	72	100	81
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	1,700	1,736
Computer sciences	389	383	391	402	437	483	545	663	651	707	765	753	793	809	844	822	780	800
Mathematics and statistics	576	508	429	496	485	519	556	624	642	753	832	820	813	878	913	865	920	936
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	3,679	3,840	4,184	4,387	4,782	5,135
Medical sciences	599	554	546	548	624	705	782	811	826	810	1,079	1,041	1,183	1,314	1,556	1,795	1,955	2,171
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	2,496	2,526	2,628	2,592	2,827	2,964
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	2,857	2,841
Astronomy	73	74	52	77	73	71	72	84	114	94	115	103	119	117	128	109	118	133
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	1,697	1,729
Physics	689	659	585	572	549	569	614	674	734	756	776	891	934	929	903	984	998	947
Other physical sciences	28	18	31	16	11	11	13	17	22	21	20	22	16	31	38	40	44	32
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	6,504	6,921	7,294	7,420	7,066	7,131
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	3,274	3,609	3,837	3,773	3,702	3,687
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	3,364	3,444
Anthropology	401	337	410	391	429	372	400	415	387	397	417	465	454	472	456	456	446	453
Area and ethnic studies	173	171	170	141	155	142	174	188	179	170	175	200	199	216	242	237	220	229
Economics	456	404	406	357	371	346	350	347	422	390	437	440	521	498	477	531	500	516
History of science	17	18	16	24	14	20	26	15	29	12	23	23	16	24	27	18	24	25
Linguistics	104	95	81	98	103	92	110	120	111	141	115	143	136	126	132	151	139	131
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	1,148	1,159
Sociology	486	449	452	455	436	407	429	436	439	477	475	506	483	477	546	569	512	524
Other social sciences	356	335	325	270	303	266	307	298	308	302	300	347	393	367	404	455	375	407
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	17,996	18,727	19,071	19,986	20,044	20,373
American Indian or Alaska Native																		
All fields	155	170	175	185	206	224	214	232	244	282	224	232	232	261	241	264	246	250
S&E	82	88	84	106	117	109	111	128	139	154	121	122	117	130	131	137	127	114
Engineering	5	10	6	12	8	6	7	8	15	19	10	15	11	7	13	12	10	12
Aerospace	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0
Chemical	0	3	1	1	1	0	1	1	2	5	0	4	1	1	1	4	0	1
Civil	1	0	1	0	1	0	0	3	2	3	1	1	2	0	0	2	1	1
Electrical	1	3	0	3	3	0	2	1	2	2	4	0	1	2	3	1	2	0

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Industrial	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	0	0	2
Materials	0	0	1	0	0	1	0	0	1	1	1	3	1	0	2	0	0	1
Mechanical	2	2	2	1	1	2	2	1	3	2	2	4	2	1	0	3	1	3
Other	1	2	1	7	2	2	1	2	3	6	1	3	2	2	6	2	6	4
Science	77	78	78	94	109	103	104	120	124	135	111	107	106	123	118	125	117	102
Natural sciences	34	33	36	39	53	56	50	62	74	83	63	62	70	67	67	71	68	68
Agricultural sciences	2	1	0	1	7	4	1	3	8	5	6	5	9	4	5	8	6	3
Biological sciences	8	14	14	18	16	18	19	23	20	27	21	25	33	25	16	24	24	23
Earth, atmospheric, and ocean sciences	6	0	0	1	3	3	0	2	2	2	2	0	2	4	1	3	5	4
Atmospheric sciences	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
Earth sciences	5	0	0	1	2	2	0	1	2	1	1	0	1	4	0	3	4	2
Oceanography	1	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	1	2
Mathematics and computer sciences	2	3	2	2	1	0	6	4	2	5	5	8	2	3	8	5	5	5
Computer sciences	0	1	1	1	1	0	6	3	0	2	3	3	2	0	7	4	1	2
Mathematics and statistics	2	2	1	1	0	0	0	1	2	3	2	5	0	3	1	1	4	3
Medical and other health sciences	8	10	11	11	14	24	15	23	37	34	18	14	18	23	21	20	23	25
Medical sciences	4	4	2	4	2	2	3	5	5	7	4	5	5	7	9	6	9	9
Other health sciences	4	6	9	7	12	22	12	18	32	27	14	9	13	16	12	14	14	16
Physical sciences	8	5	9	6	12	7	9	7	5	10	11	10	6	8	16	11	5	8
Astronomy	1	0	0	0	0	0	0	0	0	0	1	0	1	2	1	0	0	0
Chemistry	7	5	7	6	9	6	6	3	4	7	8	7	4	4	12	5	4	7
Physics	0	0	2	0	3	1	3	4	1	3	2	3	1	2	3	5	1	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Social and behavioral sciences	43	45	42	55	56	47	54	58	50	52	48	45	36	56	51	54	49	34
Psychology	28	27	24	31	36	29	32	36	31	23	19	23	21	31	20	21	22	14
Social sciences	15	18	18	24	20	18	22	22	19	29	29	22	15	25	31	33	27	20
Anthropology	4	3	6	6	5	4	4	6	1	6	9	4	6	6	7	8	6	4
Area and ethnic studies	2	2	3	2	3	4	5	6	6	11	6	6	6	10	6	10	7	4
Economics	0	0	0	2	1	0	2	2	1	1	1	1	0	0	1	3	0	1
History of science	0	0	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	1	2
Political science and public administration	3	7	1	4	4	3	4	0	6	6	5	4	2	5	8	7	5	3
Sociology	4	4	7	6	1	5	0	4	3	3	3	4	0	1	6	3	6	4
Other social sciences	2	1	1	4	6	2	6	3	0	2	4	3	1	1	2	1	2	2
Non-S&E	73	82	91	79	89	115	103	104	105	128	103	110	115	131	110	127	119	136
Asian																		

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
All fields	na	na	na	na	na	na	na	na	na	na	na	3,125	3,342	3,431	3,440	3,664	3,567	3,791
S&E	na	na	na	na	na	na	na	na	na	na	na	2,333	2,468	2,467	2,513	2,669	2,604	2,832
Engineering	na	na	na	na	na	na	na	na	na	na	na	599	573	589	637	664	661	687
Aerospace	na	na	na	na	na	na	na	na	na	na	na	16	15	16	18	12	20	26
Chemical	na	na	na	na	na	na	na	na	na	na	na	58	66	57	70	81	91	86
Civil	na	na	na	na	na	na	na	na	na	na	na	46	35	36	42	59	43	51
Electrical	na	na	na	na	na	na	na	na	na	na	na	179	184	167	179	157	155	163
Industrial	na	na	na	na	na	na	na	na	na	na	na	14	9	11	16	17	12	21
Materials	na	na	na	na	na	na	na	na	na	na	na	46	56	51	45	50	51	57
Mechanical	na	na	na	na	na	na	na	na	na	na	na	59	47	60	85	81	81	78
Other	na	na	na	na	na	na	na	na	na	na	na	181	161	191	182	207	208	205
Science	na	na	na	na	na	na	na	na	na	na	na	1,734	1,895	1,878	1,876	2,005	1,943	2,145
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	1,327	1,450	1,458	1,425	1,521	1,502	1,685
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	28	34	29	34	35	43	42
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	596	659	656	646	667	632	686
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	22	19	13	21	17	28	29
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	6	5	2	3	6	5	9
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	12	13	9	14	11	15	16
Oceanography	na	na	na	na	na	na	na	na	na	na	na	4	1	2	4	0	8	4
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	217	199	230	189	192	189	227
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	128	129	128	110	112	88	100
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	89	70	102	79	80	101	127
Medical and other health sciences	na	na	na	na	na	na	na	na	na	na	na	260	302	294	295	354	360	425
Medical sciences	na	na	na	na	na	na	na	na	na	na	na	133	138	141	172	202	193	245
Other health sciences	na	na	na	na	na	na	na	na	na	na	na	127	164	153	123	152	167	180
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	204	237	236	240	256	250	276
Astronomy	na	na	na	na	na	na	na	na	na	na	na	4	7	6	7	9	12	10
Chemistry	na	na	na	na	na	na	na	na	na	na	na	135	165	155	149	174	161	183
Physics	na	na	na	na	na	na	na	na	na	na	na	63	65	72	82	73	73	80
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	2	0	3	2	0	4	3
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	407	445	420	451	484	441	460
Psychology	na	na	na	na	na	na	na	na	na	na	na	189	213	199	213	255	228	216
Social sciences	na	na	na	na	na	na	na	na	na	na	na	218	232	221	238	229	213	244
Anthropology	na	na	na	na	na	na	na	na	na	na	na	23	21	35	32	21	20	13
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	21	24	16	25	14	12	17
Economics	na	na	na	na	na	na	na	na	na	na	na	55	60	58	60	65	57	65

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
History of science	na	na	na	na	na	na	na	na	na	na	na	1	1	0	2	1	0	2
Linguistics	na	na	na	na	na	na	na	na	na	na	na	14	19	9	8	12	9	17
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	58	57	70	51	59	67	71
Sociology	na	na	na	na	na	na	na	na	na	na	na	35	31	22	37	35	38	32
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	11	19	11	23	22	10	27
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	792	874	964	927	995	963	959
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	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	na	na
Engineering	380	398	357	292	346	372	470	508	501	504	517	na	na	na	na	na	na	na
Aerospace	9	11	3	8	8	8	11	8	9	16	12	na	na	na	na	na	na	na
Chemical	50	49	65	44	64	43	70	63	55	56	65	na	na	na	na	na	na	na
Civil	37	33	30	19	25	40	44	50	38	35	37	na	na	na	na	na	na	na
Electrical	120	127	111	112	97	128	121	156	174	156	154	na	na	na	na	na	na	na
Industrial	13	14	10	12	14	17	10	15	17	15	15	na	na	na	na	na	na	na
Materials	27	26	22	14	27	17	38	55	27	32	43	na	na	na	na	na	na	na
Mechanical	67	76	49	40	52	42	66	52	45	50	46	na	na	na	na	na	na	na
Other	57	62	67	43	59	77	110	109	136	144	145	na	na	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	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	na	na
Agricultural sciences	26	24	17	28	28	22	25	24	34	34	32	na	na	na	na	na	na	na
Biological sciences	429	399	388	475	489	508	477	563	575	567	650	na	na	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	na	na
Atmospheric sciences	3	5	1	6	4	6	6	1	1	1	2	na	na	na	na	na	na	na
Earth sciences	12	19	8	7	8	6	16	8	12	10	11	na	na	na	na	na	na	na
Oceanography	0	1	3	2	0	4	1	2	4	4	2	na	na	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	na	na
Computer sciences	56	53	72	55	62	88	92	111	87	116	124	na	na	na	na	na	na	na
Mathematics and statistics	71	55	26	43	48	54	63	79	53	78	84	na	na	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	na	na
Medical sciences	69	69	67	67	69	107	124	104	107	102	136	na	na	na	na	na	na	na
Other health sciences	127	142	162	147	207	309	337	337	353	345	135	na	na	na	na	na	na	na
Physical sciences	186	215	170	170	171	209	220	222	216	204	217	na	na	na	na	na	na	na
Astronomy	8	4	3	5	7	6	6	6	4	3	4	na	na	na	na	na	na	na
Chemistry	124	138	120	111	127	139	160	155	150	148	151	na	na	na	na	na	na	na
Physics	52	73	45	53	37	62	54	60	57	53	60	na	na	na	na	na	na	na

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Other physical sciences	2	0	2	1	0	2	0	1	5	0	2	na	na	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	na	na
Psychology	181	209	177	195	224	221	242	265	252	207	197	na	na	na	na	na	na	na
Social sciences	174	178	158	164	160	165	176	190	198	222	218	na	na	na	na	na	na	na
Anthropology	16	19	13	22	23	17	23	23	29	18	19	na	na	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	na	na
Economics	44	42	44	38	33	46	47	50	49	48	53	na	na	na	na	na	na	na
History of science	0	0	0	1	0	1	2	1	1	0	0	na	na	na	na	na	na	na
Linguistics	15	13	10	10	10	10	20	24	9	27	12	na	na	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	na	na
Sociology	27	33	25	25	25	26	21	23	38	38	28	na	na	na	na	na	na	na
Other social sciences	21	14	12	9	13	11	11	11	18	21	14	na	na	na	na	na	na	na
Non-S&E	583	673	578	608	648	624	747	837	808	809	858	na	na	na	na	na	na	na
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	4,065	4,331	4,780	5,050	5,265	5,709
S&E	821	838	871	893	1,034	1,071	1,204	1,287	1,352	1,451	1,239	1,426	1,486	1,637	1,816	1,855	2,024	2,151
Engineering	91	98	80	94	99	101	110	117	128	139	154	141	175	187	172	165	197	182
Aerospace	4	1	1	1	0	1	4	2	2	3	3	4	9	4	2	5	4	6
Chemical	8	15	10	8	7	9	13	18	17	11	14	15	11	13	17	11	18	15
Civil	8	9	11	11	6	10	9	10	9	9	12	14	13	14	19	26	17	23
Electrical	23	28	17	19	33	28	20	24	21	30	27	32	43	34	40	31	44	27
Industrial	6	5	6	6	10	6	11	8	18	10	16	13	18	23	10	10	9	21
Materials	5	5	4	9	6	7	11	8	13	15	18	10	14	20	12	8	15	12
Mechanical	24	17	16	12	18	12	13	16	23	19	15	13	21	29	17	21	21	16
Other	13	18	15	28	19	28	29	31	25	42	49	40	46	50	55	53	69	62
Science	730	740	791	799	935	970	1,094	1,170	1,224	1,312	1,085	1,285	1,311	1,450	1,644	1,690	1,827	1,969
Natural sciences	316	308	344	366	459	492	605	664	754	831	661	740	805	862	942	933	1,117	1,201
Agricultural sciences	20	16	16	26	20	19	28	24	26	28	47	21	38	33	32	31	38	43
Biological sciences	106	101	112	110	159	152	173	173	229	252	206	249	267	284	271	219	245	278
Earth, atmospheric, and ocean sciences	3	3	3	11	5	3	3	7	7	6	5	5	15	11	12	11	11	11
Atmospheric sciences	1	0	1	2	1	0	2	2	1	2	0	1	3	4	0	4	6	1
Earth sciences	2	3	2	6	3	2	0	3	5	4	5	3	10	5	9	6	4	7
Oceanography	0	0	0	3	1	1	1	2	1	0	0	1	2	2	3	1	1	3
Mathematics and computer sciences	28	26	35	36	26	37	41	51	46	57	57	54	60	79	79	77	105	83
Computer sciences	15	9	21	17	18	19	21	30	24	30	33	31	39	52	52	57	69	62
Mathematics and statistics	13	17	14	19	8	18	20	21	22	27	24	23	21	27	27	20	36	21

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Medical and other health sciences	94	90	109	118	185	229	305	323	369	410	266	325	346	360	441	488	619	698
Medical sciences	36	30	29	36	46	62	74	75	73	78	106	132	156	157	233	262	335	415
Other health sciences	58	60	80	82	139	167	231	248	296	332	160	193	190	203	208	226	284	283
Physical sciences	65	72	69	65	64	52	55	86	77	78	80	86	79	95	107	107	99	88
Astronomy	1	0	1	1	1	0	1	2	0	0	2	1	0	0	1	1	1	1
Chemistry	45	56	46	47	51	37	43	64	62	66	59	67	58	78	81	88	72	66
Physics	19	16	22	17	11	15	11	20	15	11	18	17	21	15	21	18	24	19
Other physical sciences	0	0	0	0	1	0	0	0	0	1	1	1	0	2	4	0	2	2
Social and behavioral sciences	414	432	447	433	476	478	489	506	470	481	424	545	506	588	702	757	710	768
Psychology	214	240	231	241	281	275	256	278	271	259	212	275	238	299	362	414	406	388
Social sciences	200	192	216	192	195	203	233	228	199	222	212	270	268	289	340	343	304	380
Anthropology	20	12	25	23	26	24	21	19	18	22	21	18	14	20	21	17	21	30
Area and ethnic studies	17	25	28	17	22	21	36	38	36	33	30	30	36	38	42	39	39	49
Economics	22	9	19	11	19	9	18	18	15	8	10	19	15	21	18	11	17	18
History of science	0	1	1	0	0	1	1	1	0	1	0	0	0	1	1	1	0	0
Linguistics	1	4	1	0	4	2	5	0	2	2	2	5	3	2	4	3	3	2
Political science and public administration	70	79	78	79	67	83	90	85	67	94	80	121	126	143	176	184	146	191
Sociology	50	42	44	51	40	44	45	47	45	48	51	47	48	51	55	65	51	66
Other social sciences	20	20	20	11	17	19	17	20	16	14	18	30	26	13	23	23	27	24
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	2,579	2,694	2,964	3,195	3,241	3,558
Native Hawaiian or Other Pacific Islander																		
All fields	na	na	na	na	na	na	na	na	na	na	na	55	55	70	70	76	91	82
S&E	na	na	na	na	na	na	na	na	na	na	na	37	23	27	44	34	40	37
Engineering	na	na	na	na	na	na	na	na	na	na	na	4	2	7	8	1	3	5
Aerospace	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0	0	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	1	0	1	0	0	0	1
Civil	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0	0	0
Electrical	na	na	na	na	na	na	na	na	na	na	na	0	0	2	1	0	1	0
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Materials	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1	1	1
Mechanical	na	na	na	na	na	na	na	na	na	na	na	0	1	1	1	0	0	1
Other	na	na	na	na	na	na	na	na	na	na	na	3	1	3	4	0	1	2
Science	na	na	na	na	na	na	na	na	na	na	na	33	21	20	36	33	37	32
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	26	20	12	28	25	24	23
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	1	0	1	1	1	0	0
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	12	10	7	12	8	11	11

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	0	1	0	0	1	0	0
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	0	1	0	0	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1	0	0
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	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	1	1
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	2	0	0	0	0	1	1
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	1	2	0	1	2	0	0
Medical and other health sciences	na	na	na	na	na	na	na	na	na	na	na	4	3	4	11	8	10	10
Medical sciences	na	na	na	na	na	na	na	na	na	na	na	2	2	1	6	2	7	4
Other health sciences	na	na	na	na	na	na	na	na	na	na	na	2	1	3	5	6	3	6
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	6	4	0	3	5	2	1
Astronomy	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	4	4	0	1	3	0	1
Physics	na	na	na	na	na	na	na	na	na	na	na	2	0	0	2	2	1	0
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	1	0
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	7	1	8	8	8	13	9
Psychology	na	na	na	na	na	na	na	na	na	na	na	1	0	4	6	3	10	4
Social sciences	na	na	na	na	na	na	na	na	na	na	na	6	1	4	2	5	3	5
Anthropology	na	na	na	na	na	na	na	na	na	na	na	1	0	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	2	0
Economics	na	na	na	na	na	na	na	na	na	na	na	1	0	0	0	0	0	0
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	0	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	1	3
Sociology	na	na	na	na	na	na	na	na	na	na	na	2	0	0	0	0	0	0
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	1
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	18	32	43	26	42	51	45
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	30,424	31,614	32,622	33,218	33,202	33,281
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	17,958	18,615	19,552	19,714	19,620	19,875
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	2,967	2,882
Aerospace	108	79	65	48	61	73	60	81	81	99	90	93	112	128	156	150	153	155
Chemical	275	271	240	209	242	275	297	250	296	312	331	307	296	300	357	383	378	373
Civil	238	225	205	216	188	209	208	245	231	241	235	228	257	295	324	347	324	298
Electrical	436	374	325	282	331	346	346	367	397	415	426	468	486	474	453	494	469	398
Industrial	79	79	83	67	88	73	77	82	71	71	66	77	78	76	89	64	82	73

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Materials	191	170	135	150	159	136	163	191	209	194	208	183	253	234	233	263	269	292
Mechanical	261	285	236	254	200	242	274	265	282	320	310	343	402	428	437	484	477	437
Other	360	361	303	345	364	342	393	492	545	583	620	694	708	766	879	838	815	856
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	15,366	15,914	16,624	16,691	16,653	16,993
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	10,605	10,919	11,446	11,501	11,702	11,968
Agricultural sciences	470	453	474	522	502	519	526	541	534	576	480	509	519	586	577	673	633	611
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	3,881	3,951
Earth, atmospheric, and ocean sciences	344	301	332	318	311	300	328	400	349	390	395	385	404	450	483	444	480	486
Atmospheric sciences	50	33	40	36	37	43	30	39	49	61	43	67	61	75	77	82	73	82
Earth sciences	230	210	242	224	212	204	258	289	235	263	280	258	274	302	322	302	325	340
Oceanography	64	58	50	58	62	53	40	72	65	66	72	60	69	73	84	60	82	64
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	1,172	1,212
Computer sciences	289	287	264	282	309	308	356	437	446	483	506	514	526	531	554	535	516	529
Mathematics and statistics	457	400	360	389	388	398	428	458	490	559	634	627	636	652	708	676	656	683
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	2,703	2,799	3,055	3,155	3,318	3,505
Medical sciences	465	417	422	398	471	475	531	578	583	553	736	657	774	858	971	1,170	1,216	1,273
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	1,929	1,941	2,084	1,985	2,102	2,232
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	2,218	2,203
Astronomy	55	52	41	61	63	62	57	63	94	85	97	84	105	98	100	80	92	115
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	1,307	1,308
Physics	561	516	473	437	442	435	496	519	582	603	592	681	734	721	695	774	788	759
Other physical sciences	26	18	28	15	9	8	12	14	16	19	17	17	15	25	29	35	31	21
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	4,951	5,025
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	2,566	2,647
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	2,385	2,378
Anthropology	332	283	326	313	349	296	325	330	299	308	318	365	359	349	330	331	341	336
Area and ethnic studies	123	116	106	84	93	84	91	103	109	95	92	113	106	129	122	138	131	136
Economics	349	325	318	272	286	244	237	233	292	281	322	279	375	355	331	372	359	357
History of science	11	15	12	20	13	17	19	13	20	11	21	20	12	22	18	16	22	20
Linguistics	82	66	65	74	82	73	74	86	95	99	89	104	99	95	100	110	106	98
Political science and public administration	659	636	625	596	605	591	580	573	578	622	648	627	710	753	781	817	769	761
Sociology	375	343	340	356	352	301	337	326	321	354	355	375	355	360	391	401	362	355
Other social sciences	289	275	269	232	243	215	242	244	246	241	230	266	310	299	306	344	295	315
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	12,466	12,999	13,070	13,504	13,582	13,406
More than one race ^c																		
All fields	na	na	na	na	na	na	na	na	na	na	na	337	397	522	643	777	980	1,161

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
S&E	na	na	na	na	na	na	na	na	na	na	na	202	252	328	434	502	636	776
Engineering	na	na	na	na	na	na	na	na	na	na	na	32	42	59	78	87	116	110
Aerospace	na	na	na	na	na	na	na	na	na	na	na	2	6	3	3	5	4	5
Chemical	na	na	na	na	na	na	na	na	na	na	na	2	2	5	10	4	11	15
Civil	na	na	na	na	na	na	na	na	na	na	na	3	3	4	8	14	8	13
Electrical	na	na	na	na	na	na	na	na	na	na	na	5	9	16	15	18	20	15
Industrial	na	na	na	na	na	na	na	na	na	na	na	0	1	0	3	3	6	4
Materials	na	na	na	na	na	na	na	na	na	na	na	5	5	6	6	7	14	16
Mechanical	na	na	na	na	na	na	na	na	na	na	na	6	3	9	12	12	13	17
Other	na	na	na	na	na	na	na	na	na	na	na	9	13	16	21	24	40	25
Science	na	na	na	na	na	na	na	na	na	na	na	170	210	269	356	415	520	666
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	101	129	178	232	270	363	467
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	5	4	7	4	14	15	18
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	44	59	62	99	110	127	196
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	1	6	5	9	8	14	13
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	1	1	1	0	0	0	2
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	0	5	4	7	8	11	7
Oceanography	na	na	na	na	na	na	na	na	na	na	na	0	0	0	2	0	3	4
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	5	12	14	20	24	54	41
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	3	3	3	7	16	19	14
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	2	9	11	13	8	35	27
Medical and other health sciences	na	na	na	na	na	na	na	na	na	na	na	20	20	52	57	68	91	134
Medical sciences	na	na	na	na	na	na	na	na	na	na	na	8	10	18	24	31	33	51
Other health sciences	na	na	na	na	na	na	na	na	na	na	na	12	10	34	33	37	58	83
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	26	28	38	43	46	62	65
Astronomy	na	na	na	na	na	na	na	na	na	na	na	2	0	0	3	3	2	3
Chemistry	na	na	na	na	na	na	na	na	na	na	na	14	15	24	24	32	40	45
Physics	na	na	na	na	na	na	na	na	na	na	na	9	13	14	15	10	19	17
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	1	0	0	1	1	1	0
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	69	81	91	124	145	157	199
Psychology	na	na	na	na	na	na	na	na	na	na	na	40	45	47	72	78	104	108
Social sciences	na	na	na	na	na	na	na	na	na	na	na	29	36	44	52	67	53	91
Anthropology	na	na	na	na	na	na	na	na	na	na	na	4	9	5	10	9	6	13
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	2	4	2	10	7	7	9
Economics	na	na	na	na	na	na	na	na	na	na	na	10	4	5	6	12	9	15
History of science	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	2	4	2	5	5	3
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	9	7	15	10	19	12	24
Sociology	na	na	na	na	na	na	na	na	na	na	na	3	7	9	8	11	9	16
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	1	3	4	6	4	5	11
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	135	145	194	209	275	344	385
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	4,091	4,066	4,232	4,256	4,075	4,055
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	2,306	2,364	2,467	2,408	2,331	2,171
Engineering	146	124	138	162	160	179	204	250	294	324	344	347	340	371	368	382	363	390
Aerospace	2	3	5	11	1	4	5	10	7	11	10	7	11	7	11	14	12	13
Chemical	13	11	21	20	17	13	22	25	27	31	26	30	36	34	37	50	22	39
Civil	24	19	20	23	16	24	19	26	36	39	36	43	29	37	43	47	40	43
Electrical	44	38	27	40	48	51	60	64	83	81	104	90	88	84	90	100	70	91
Industrial	3	7	7	6	5	7	6	12	9	10	7	10	12	12	6	6	8	12
Materials	10	6	5	16	7	17	18	23	27	29	27	27	20	21	24	19	34	26
Mechanical	20	18	21	14	23	26	21	29	36	53	29	49	52	52	57	47	47	54
Other	30	22	32	32	43	37	53	61	69	70	105	91	92	124	100	99	130	112
Science	888	997	951	1,115	1,187	1,480	1,801	1,974	2,093	2,091	2,029	2,086	1,966	1,993	2,099	2,026	1,968	1,781
Natural sciences	510	586	549	715	754	973	1,250	1,443	1,459	1,503	1,413	1,333	1,292	1,230	1,319	1,244	1,223	1,145
Agricultural sciences	22	29	22	33	27	33	24	36	48	51	41	46	49	65	53	79	56	54
Biological sciences	187	221	177	215	221	264	290	302	385	400	485	476	489	423	467	381	366	345
Earth, atmospheric, and ocean sciences	32	23	17	23	15	27	23	43	44	50	48	45	33	33	36	51	45	41
Atmospheric sciences	2	2	0	1	2	3	5	4	5	4	4	7	2	7	2	5	4	5
Earth sciences	25	20	13	18	10	21	12	34	35	43	40	28	25	20	30	35	36	32
Oceanography	5	1	4	4	3	3	6	5	4	3	4	10	6	6	4	11	5	4
Mathematics and computer sciences	62	67	61	91	88	117	115	147	169	162	187	145	169	178	198	176	174	167
Computer sciences	29	33	33	47	47	68	70	82	94	76	99	72	94	95	114	98	86	92
Mathematics and statistics	33	34	28	44	41	49	45	65	75	86	88	73	75	83	84	78	88	75
Medical and other health sciences	57	77	118	190	254	366	637	723	601	613	380	337	287	308	304	294	361	338
Medical sciences	25	34	26	43	36	59	50	49	58	70	97	104	98	132	141	122	162	174
Other health sciences	32	43	92	147	218	307	587	674	543	543	283	233	189	176	163	172	199	164
Physical sciences	150	169	154	163	149	166	161	192	212	227	272	284	265	223	261	263	221	200
Astronomy	8	18	7	10	2	3	8	13	16	6	11	12	6	11	16	16	11	4
Chemistry	85	97	103	88	90	106	102	106	116	134	157	155	158	106	158	142	113	119
Physics	57	54	43	65	56	56	50	71	79	86	104	116	100	105	85	102	92	71
Other physical sciences	0	0	1	0	1	1	1	2	1	1	0	1	1	1	2	3	5	6

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Social and behavioral sciences	378	411	402	400	433	507	551	531	634	588	616	753	674	763	780	782	745	636
Psychology	166	224	209	200	254	298	299	283	349	301	287	360	322	396	365	341	366	310
Social sciences	212	187	193	200	179	209	252	248	285	287	329	393	352	367	415	441	379	326
Anthropology	29	20	40	27	26	31	27	37	40	43	50	50	45	56	56	69	52	56
Area and ethnic studies	24	17	20	21	19	20	28	25	19	21	26	27	23	21	36	27	22	14
Economics	41	28	25	34	32	47	46	44	65	52	51	75	67	59	61	68	58	60
History of science	6	2	3	3	1	1	4	0	8	0	2	2	3	1	6	0	2	3
Linguistics	6	11	5	14	7	7	10	9	3	13	11	20	13	14	17	20	15	9
Political science and public administration	52	57	41	70	52	53	80	77	90	100	117	143	125	143	146	142	148	106
Sociology	30	27	36	17	18	31	26	36	32	34	38	40	42	34	49	54	46	51
Other social sciences	24	25	23	14	24	19	31	20	28	24	34	36	34	39	44	61	36	27
Non-S&E	627	824	844	995	901	1,014	1,141	1,236	1,447	1,529	1,643	1,661	1,785	1,702	1,765	1,848	1,744	1,884
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	18,519	18,884
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	15,223	15,592
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	5,756	5,973
Aerospace	78	101	116	106	117	114	129	126	129	120	106	107	112	141	128	116	124	128
Chemical	301	323	339	313	368	512	488	542	533	449	460	511	527	573	649	633	622	606
Civil	309	347	396	402	479	534	568	576	579	554	504	541	556	626	689	695	698	776
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	1,810	1,923
Industrial	114	153	160	165	161	179	185	235	221	221	174	195	224	256	264	243	249	238
Materials	214	237	209	259	289	323	369	377	381	380	337	368	352	409	386	436	427	440
Mechanical	437	492	478	450	528	625	751	762	743	714	597	667	721	770	811	903	854	844
Other	401	406	382	426	539	594	634	719	769	724	715	839	827	935	937	964	972	1,018
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	9,467	9,619
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	7,683	7,744
Agricultural sciences	431	390	420	434	415	393	397	425	412	428	343	393	450	448	473	493	494	539
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	2,118	2,073
Earth, atmospheric, and ocean sciences	170	180	194	168	184	212	211	246	247	247	232	215	239	254	278	261	302	268
Atmospheric sciences	30	30	25	32	32	42	50	39	48	42	50	37	50	46	41	47	46	47
Earth sciences	113	122	138	109	124	135	134	166	167	170	146	155	158	167	211	184	220	202
Oceanography	27	28	31	27	28	35	27	41	32	35	36	23	31	41	26	30	36	19
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	1,993	2,032
Computer sciences	375	373	340	403	455	621	865	917	1,029	844	779	790	871	960	1,060	1,087	1,120	1,089
Mathematics and statistics	493	476	489	496	557	640	714	711	691	748	731	741	818	912	916	902	873	943
Medical and other health sciences	484	522	538	445	541	623	673	704	713	634	526	569	670	644	664	676	714	761

TABLE S2-11

Doctoral degrees awarded, by citizenship, field, race, and ethnicity: 2000–17

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Medical sciences	278	282	314	273	355	409	436	431	410	406	364	389	468	474	492	488	507	534
Other health sciences	206	240	224	172	186	214	237	273	303	228	162	180	202	170	172	188	207	227
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	2,062	2,071
Astronomy	25	25	17	22	26	42	41	39	46	45	41	58	46	54	48	35	45	56
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	1,196	1,152
Physics	500	492	492	498	557	669	706	746	753	799	762	742	767	770	817	812	792	822
Other physical sciences	17	22	12	14	9	13	15	16	18	20	12	15	21	28	41	31	29	41
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	1,784	1,875
Psychology	158	157	143	199	198	229	254	246	241	276	272	258	251	263	254	272	234	269
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	1,550	1,606
Anthropology	62	72	78	67	71	67	55	86	75	96	90	91	95	87	99	88	105	96
Area and ethnic studies	32	36	29	27	36	30	33	24	56	48	46	43	54	32	51	46	48	61
Economics	527	594	542	590	582	743	686	738	734	764	661	696	733	692	712	717	761	787
History of science	5	1	4	3	6	7	6	11	5	7	6	3	7	5	12	12	6	5
Linguistics	97	93	68	99	89	77	102	96	101	95	85	89	110	106	101	111	107	89
Political science and public administration	163	188	171	228	192	243	271	282	282	325	345	301	316	326	303	338	297	334
Sociology	92	77	73	106	104	98	108	114	117	136	108	116	99	109	112	110	106	106
Other social sciences	80	95	98	76	80	97	98	92	127	120	115	113	119	106	117	117	120	128
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	3,296	3,292

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

^a Beginning in 2008, Hispanic may be any race and race categories exclude Hispanic origin.

^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 people 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. Doctoral degree 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 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 degree-research/scholarship, doctor's degree-professional practice, and doctor's degree-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 degree-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 degree-research/scholarship. This change primarily affects data for other health sciences.

Source(s)
National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Center for Science and Engineering Statistics, National Science Foundation, Integrated Data System (IDS).

TABLE S2-12

Degrees awarded to U.S. citizens and permanent residents, by degree level, sex, race, ethnicity, and field: 2000 and 2017

(Number and percent)

Degree level, race, ethnicity, and field	2000					2017				
	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	8,935	5,697	3,238	63.8	36.2
S&E	608	386	222	63.5	36.5	942	495	447	52.5	47.5
Engineering	17	4	13	23.5	76.5	50	8	42	16.0	84.0
Natural sciences	384	220	164	57.3	42.7	453	174	279	38.4	61.6
Social and behavioral sciences	207	162	45	78.3	21.7	439	313	126	71.3	28.7
Non-S&E	5,674	3,745	1,929	66.0	34.0	7,993	5,202	2,791	65.1	34.9
Asian or Pacific Islander										
All fields	27,313	15,522	11,791	56.8	43.2	54,809	30,916	23,893	56.4	43.6
S&E	2,649	1,284	1,365	48.5	51.5	7,862	3,492	4,370	44.4	55.6
Engineering	160	23	137	14.4	85.6	574	111	463	19.3	80.7
Natural sciences	2,010	939	1,071	46.7	53.3	4,419	1,562	2,857	35.3	64.7
Social and behavioral sciences	479	322	157	67.2	32.8	2,869	1,819	1,050	63.4	36.6
Non-S&E	24,664	14,238	10,426	57.7	42.3	46,947	27,424	19,523	58.4	41.6
Black or African American										
All fields	58,408	38,148	20,260	65.3	34.7	125,139	83,700	41,439	66.9	33.1
S&E	4,629	2,622	2,007	56.6	43.4	9,598	4,986	4,612	51.9	48.1
Engineering	131	25	106	19.1	80.9	395	45	350	11.4	88.6
Natural sciences	3,497	1,883	1,614	53.8	46.2	4,951	1,735	3,216	35.0	65.0
Social and behavioral sciences	1,001	714	287	71.3	28.7	4,252	3,206	1,046	75.4	24.6
Non-S&E	53,779	35,526	18,253	66.1	33.9	115,541	78,714	36,827	68.1	31.9
Hispanic or Latino										
All fields	57,971	33,760	24,211	58.2	41.8	209,579	131,303	78,276	62.7	37.3
S&E	4,361	2,280	2,081	52.3	47.7	23,928	13,467	10,461	56.3	43.7
Engineering	181	30	151	16.6	83.4	1,168	207	961	17.7	82.3
Natural sciences	2,986	1,396	1,590	46.8	53.2	8,765	3,127	5,638	35.7	64.3
Social and behavioral sciences	1,194	854	340	71.5	28.5	13,995	10,133	3,862	72.4	27.6
Non-S&E	53,610	31,480	22,130	58.7	41.3	185,651	117,836	67,815	63.5	36.5
White										
All fields	396,145	237,369	158,776	59.9	40.1	530,746	316,065	214,681	59.6	40.4
S&E	23,837	10,680	13,157	44.8	55.2	41,574	16,579	24,995	39.9	60.1
Engineering	1,177	148	1,029	12.6	87.4	3,134	443	2,691	14.1	85.9
Natural sciences	18,573	7,644	10,929	41.2	58.8	25,490	6,835	18,655	26.8	73.2
Social and behavioral sciences	4,087	2,888	1,199	70.7	29.3	12,950	9,301	3,649	71.8	28.2
Non-S&E	372,308	226,689	145,619	60.9	39.1	489,172	299,486	189,686	61.2	38.8
Other or unknown race and ethnicity										
All fields	17,261	9,804	7,451	56.8	43.2	64,428	37,920	26,508	58.9	41.1
S&E	1,501	654	847	43.6	56.4	6,146	2,808	3,338	45.7	54.3
Engineering	60	8	52	13.3	86.7	372	50	322	13.4	86.6
Natural sciences	1,050	376	674	35.8	64.2	3,320	1,010	2,310	30.4	69.6
Social and behavioral sciences	391	270	121	69.1	30.9	2,454	1,748	706	71.2	28.8
Non-S&E	15,760	9,150	6,610	58.1	41.9	58,282	35,112	23,170	60.2	39.8
Bachelor's level										
American Indian or Alaska Native										
All fields	8,414	5,077	3,337	60.3	39.7	9,194	5,621	3,573	61.1	38.9
S&E	2,607	1,443	1,164	55.4	44.6	2,844	1,562	1,282	54.9	45.1
Engineering	326	89	237	27.3	72.7	295	59	236	20.0	80.0

TABLE S2-12

Degrees awarded to U.S. citizens and permanent residents, by degree level, sex, race, ethnicity, and field: 2000 and 2017

(Number and percent)

Degree level, race, ethnicity, and field	2000					2017				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
Natural sciences	917	462	455	50.4	49.6	1,085	513	572	47.3	52.7
Social and behavioral sciences	1,364	892	472	65.4	34.6	1,464	990	474	67.6	32.4
Non-S&E	5,807	3,634	2,173	62.6	37.4	6,350	4,059	2,291	63.9	36.1
Asian or Pacific Islander										
All fields	75,384	40,766	34,618	54.1	45.9	138,753	75,852	62,901	54.7	45.3
S&E	35,556	16,982	18,574	47.8	52.2	67,178	31,966	35,212	47.6	52.4
Engineering	6,850	1,664	5,186	24.3	75.7	12,950	3,396	9,554	26.2	73.8
Natural sciences	16,342	7,647	8,695	46.8	53.2	34,406	16,120	18,286	46.9	53.1
Social and behavioral sciences	12,364	7,671	4,693	62.0	38.0	19,822	12,450	7,372	62.8	37.2
Non-S&E	39,828	23,784	16,044	59.7	40.3	71,575	43,886	27,689	61.3	38.7
Black or African American										
All fields	104,341	68,679	35,662	65.8	34.2	188,414	120,841	67,573	64.1	35.9
S&E	32,993	20,975	12,018	63.6	36.4	55,651	34,216	21,435	61.5	38.5
Engineering	3,069	1,090	1,979	35.5	64.5	4,443	1,119	3,324	25.2	74.8
Natural sciences	10,796	6,464	4,332	59.9	40.1	18,963	10,103	8,860	53.3	46.7
Social and behavioral sciences	19,128	13,421	5,707	70.2	29.8	32,245	22,994	9,251	71.3	28.7
Non-S&E	71,348	47,704	23,644	66.9	33.1	132,763	86,625	46,138	65.2	34.8
Hispanic or Latino										
All fields	88,445	53,772	34,673	60.8	39.2	258,195	156,797	101,398	60.7	39.3
S&E	27,980	15,456	12,524	55.2	44.8	91,550	50,895	40,655	55.6	44.4
Engineering	4,075	988	3,087	24.2	75.8	12,613	2,871	9,742	22.8	77.2
Natural sciences	8,842	4,499	4,343	50.9	49.1	31,096	14,866	16,230	47.8	52.2
Social and behavioral sciences	15,063	9,969	5,094	66.2	33.8	47,841	33,158	14,683	69.3	30.7
Non-S&E	60,465	38,316	22,149	63.4	36.6	166,645	105,902	60,743	63.5	36.5
White										
All fields	896,511	508,407	388,104	56.7	43.3	1,148,033	648,136	499,897	56.5	43.5
S&E	270,341	133,114	137,227	49.2	50.8	377,509	178,350	199,159	47.2	52.8
Engineering	39,025	7,274	31,751	18.6	81.4	68,656	13,848	54,808	20.2	79.8
Natural sciences	103,331	46,570	56,761	45.1	54.9	160,645	71,788	88,857	44.7	55.3
Social and behavioral sciences	127,985	79,270	48,715	61.9	38.1	148,208	92,714	55,494	62.6	37.4
Non-S&E	626,170	375,293	250,877	59.9	40.1	770,524	469,786	300,738	61.0	39.0
Other or unknown race and ethnicity										
All fields	42,419	23,529	18,890	55.5	44.5	139,095	80,355	58,740	57.8	42.2
S&E	13,930	6,948	6,982	49.9	50.1	48,111	24,596	23,515	51.1	48.9
Engineering	1,610	296	1,314	18.4	81.6	7,161	1,689	5,472	23.6	76.4
Natural sciences	5,143	2,228	2,915	43.3	56.7	19,519	8,883	10,636	45.5	54.5
Social and behavioral sciences	7,177	4,424	2,753	61.6	38.4	21,431	14,024	7,407	65.4	34.6
Non-S&E	28,489	16,581	11,908	58.2	41.8	90,984	55,759	35,225	61.3	38.7
Master's level										
American Indian or Alaska Native										
All fields	2,109	1,329	780	63.0	37.0	3,142	2,085	1,057	66.4	33.6
S&E	383	190	193	49.6	50.4	618	350	268	56.6	43.4
Engineering	64	16	48	25.0	75.0	77	24	53	31.2	68.8
Natural sciences	108	36	72	33.3	66.7	166	76	90	45.8	54.2
Social and behavioral sciences	211	138	73	65.4	34.6	375	250	125	66.7	33.3
Non-S&E	1,726	1,139	587	66.0	34.0	2,524	1,735	789	68.7	31.3
Asian or Pacific Islander										
All fields	21,720	11,461	10,259	52.8	47.2	44,352	25,230	19,122	56.9	43.1

TABLE S2-12

Degrees awarded to U.S. citizens and permanent residents, by degree level, sex, race, ethnicity, and field: 2000 and 2017

(Number and percent)

Degree level, race, ethnicity, and field	2000					2017				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
S&E	7,032	3,063	3,969	43.6	56.4	13,131	5,736	7,395	43.7	56.3
Engineering	2,380	661	1,719	27.8	72.2	3,702	1,054	2,648	28.5	71.5
Natural sciences	3,199	1,440	1,759	45.0	55.0	6,508	2,766	3,742	42.5	57.5
Social and behavioral sciences	1,453	962	491	66.2	33.8	2,921	1,916	1,005	65.6	34.4
Non-S&E	14,688	8,398	6,290	57.2	42.8	31,221	19,494	11,727	62.4	37.6
Black or African American										
All fields	33,589	23,173	10,416	69.0	31.0	82,908	58,078	24,830	70.1	29.9
S&E	5,563	3,320	2,243	59.7	40.3	13,160	8,150	5,010	61.9	38.1
Engineering	658	207	451	31.5	68.5	1,247	343	904	27.5	72.5
Natural sciences	1,179	588	591	49.9	50.1	3,816	1,813	2,003	47.5	52.5
Social and behavioral sciences	3,726	2,525	1,201	67.8	32.2	8,097	5,994	2,103	74.0	26.0
Non-S&E	28,026	19,853	8,173	70.8	29.2	69,748	49,928	19,820	71.6	28.4
Hispanic or Latino										
All fields	20,911	12,861	8,050	61.5	38.5	67,353	43,774	23,579	65.0	35.0
S&E	3,762	1,841	1,921	48.9	51.1	13,092	7,033	6,059	53.7	46.3
Engineering	852	201	651	23.6	76.4	2,426	619	1,807	25.5	74.5
Natural sciences	935	403	532	43.1	56.9	3,647	1,602	2,045	43.9	56.1
Social and behavioral sciences	1,975	1,237	738	62.6	37.4	7,019	4,812	2,207	68.6	31.4
Non-S&E	17,149	11,020	6,129	64.3	35.7	54,261	36,741	17,520	67.7	32.3
White										
All fields	299,781	180,919	118,862	60.4	39.6	401,523	249,667	151,856	62.2	37.8
S&E	50,130	22,868	27,262	45.6	54.4	72,596	34,431	38,165	47.4	52.6
Engineering	11,020	2,037	8,983	18.5	81.5	15,297	3,471	11,826	22.7	77.3
Natural sciences	16,154	6,613	9,541	40.9	59.1	26,526	11,164	15,362	42.1	57.9
Social and behavioral sciences	22,956	14,218	8,738	61.9	38.1	30,773	19,796	10,977	64.3	35.7
Non-S&E	249,651	158,051	91,600	63.3	36.7	328,927	215,236	113,691	65.4	34.6
Other or unknown race and ethnicity										
All fields	26,048	14,612	11,436	56.1	43.9	65,350	40,283	25,067	61.6	38.4
S&E	4,545	2,065	2,480	45.4	54.6	12,089	6,172	5,917	51.1	48.9
Engineering	940	192	748	20.4	79.6	2,209	540	1,669	24.4	75.6
Natural sciences	1,415	536	879	37.9	62.1	4,329	1,831	2,498	42.3	57.7
Social and behavioral sciences	2,190	1,337	853	61.1	38.9	5,551	3,801	1,750	68.5	31.5
Non-S&E	21,503	12,547	8,956	58.3	41.7	53,261	34,111	19,150	64.0	36.0
Doctoral level ^a										
American Indian or Alaska Native										
All fields	155	100	55	64.5	35.5	250	152	98	60.8	39.2
S&E	82	52	30	63.4	36.6	114	62	52	54.4	45.6
Engineering	5	2	3	40.0	60.0	12	4	8	33.3	66.7
Natural sciences	34	16	18	47.1	52.9	68	38	30	55.9	44.1
Social and behavioral sciences	43	34	9	79.1	20.9	34	20	14	58.8	41.2
Non-S&E	73	48	25	65.8	34.2	136	90	46	66.2	33.8
Asian or Pacific Islander										
All fields	2,297	1,013	1,284	44.1	55.9	3,873	2,082	1,791	53.8	46.2
S&E	1,714	704	1,010	41.1	58.9	2,869	1,440	1,429	50.2	49.8
Engineering	380	81	299	21.3	78.7	692	211	481	30.5	69.5
Natural sciences	979	412	567	42.1	57.9	1,708	911	797	53.3	46.7
Social and behavioral sciences	355	211	144	59.4	40.6	469	318	151	67.8	32.2
Non-S&E	583	309	274	53.0	47.0	1,004	642	362	63.9	36.1

TABLE S2-12

Degrees awarded to U.S. citizens and permanent residents, by degree level, sex, race, ethnicity, and field: 2000 and 2017

(Number and percent)

Degree level, race, ethnicity, and field	2000					2017				
	All	Female	Male	Female (%)	Male (%)	All	Female	Male	Female (%)	Male (%)
Black or African American										
All fields	2,147	1,314	833	61.2	38.8	5,709	3,904	1,805	68.4	31.6
S&E	821	462	359	56.3	43.7	2,151	1,426	725	66.3	33.7
Engineering	91	29	62	31.9	68.1	182	61	121	33.5	66.5
Natural sciences	316	180	136	57.0	43.0	1,201	822	379	68.4	31.6
Social and behavioral sciences	414	253	161	61.1	38.9	768	543	225	70.7	29.3
Non-S&E	1,326	852	474	64.3	35.7	3,558	2,478	1,080	69.6	30.4
Hispanic or Latino										
All fields	1,382	767	615	55.5	44.5	3,929	2,305	1,624	58.7	41.3
S&E	775	402	373	51.9	48.1	2,181	1,218	963	55.8	44.2
Engineering	86	16	70	18.6	81.4	306	84	222	27.5	72.5
Natural sciences	319	150	169	47.0	53.0	1,102	597	505	54.2	45.8
Social and behavioral sciences	370	236	134	63.8	36.2	773	537	236	69.5	30.5
Non-S&E	607	365	242	60.1	39.9	1,748	1,087	661	62.2	37.8
White										
All fields	26,471	12,770	13,701	48.2	51.8	33,281	17,659	15,622	53.1	46.9
S&E	14,975	6,647	8,328	44.4	55.6	19,875	9,818	10,057	49.4	50.6
Engineering	1,948	340	1,608	17.5	82.5	2,882	678	2,204	23.5	76.5
Natural sciences	7,621	3,138	4,483	41.2	58.8	11,968	6,104	5,864	51.0	49.0
Social and behavioral sciences	5,406	3,169	2,237	58.6	41.4	5,025	3,036	1,989	60.4	39.6
Non-S&E	11,496	6,123	5,373	53.3	46.7	13,406	7,841	5,565	58.5	41.5
Other or unknown race and ethnicity										
All fields	1,661	741	920	44.6	55.4	5,216	2,870	2,346	55.0	45.0
S&E	1,034	422	612	40.8	59.2	2,947	1,528	1,419	51.8	48.2
Engineering	146	28	118	19.2	80.8	500	127	373	25.4	74.6
Natural sciences	510	190	320	37.3	62.7	1,612	841	771	52.2	47.8
Social and behavioral sciences	378	204	174	54.0	46.0	835	560	275	67.1	32.9
Non-S&E	627	319	308	50.9	49.1	2,269	1,342	927	59.1	40.9

^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. Hispanic may be any race; race categories exclude Hispanic origin.

Source(s)

National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Center for Science and Engineering Statistics, National Science Foundation, Integrated Data System (IDS).

TABLE S2-13

International undergraduate student enrollment in U.S. universities, by field and selected places of origin: 2016–18

(Number)

Place of origin	All fields	S&E									Non-S&E
		Total	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
2016											
All locations	450,850	176,570	64,110	2,970	16,570	29,140	14,650	8,420	9,350	31,360	274,280
China	141,060	57,600	14,560	1,300	3,580	8,420	10,510	3,420	2,620	13,190	83,460
Saudi Arabia	35,030	17,000	11,110	50	870	3,050	150	580	200	990	18,030
South Korea	32,300	10,710	2,750	130	1,230	1,710	770	640	900	2,580	21,600
India	19,460	10,680	4,460	80	810	2,920	310	310	370	1,420	8,780
Kuwait	8,000	6,010	5,510	0	150	40	50	80	20	170	1,990
Vietnam	16,620	5,110	1,450	60	840	1,410	260	380	190	530	11,510
Canada	14,410	4,040	1,050	120	980	290	130	190	450	850	10,370
Nepal	7,460	3,880	680	30	560	2,130	110	160	70	160	3,580
Malaysia	5,590	3,410	1,620	70	330	250	350	170	270	360	2,180
Nigeria	6,540	3,160	1,250	20	600	630	50	150	100	360	3,380
Mexico	7,070	2,330	1,130	50	240	260	60	110	160	320	4,740
Japan	9,470	2,150	260	70	220	270	100	120	260	840	7,320
Indonesia	5,480	2,070	860	130	130	330	120	60	110	330	3,400
Taiwan	6,790	1,910	510	60	300	320	120	100	170	350	4,880
Brazil	7,330	1,850	720	10	200	290	30	50	140	400	5,480
Hong Kong	4,840	1,740	350	60	180	240	130	80	220	470	3,100
Turkey	3,770	1,690	810	10	70	340	30	40	90	310	2,080
Oman	2,470	1,630	1,340	10	40	80	10	60	20	70	840
Venezuela	5,710	1,590	820	10	140	210	30	40	100	240	4,130
United Kingdom	6,660	1,530	230	40	230	110	90	80	270	480	5,130
Other locations	104,800	36,480	12,650	670	4,880	5,840	1,240	1,620	2,630	6,960	68,320
2017											
All locations	440,720	176,930	61,100	2,980	16,670	32,460	15,340	8,410	9,440	30,530	263,790
China	140,950	59,420	13,730	1,320	3,740	10,080	11,010	3,470	2,870	13,210	81,540
Saudi Arabia	28,810	13,910	9,040	40	710	2,500	130	530	180	790	14,890
India	21,020	11,810	4,650	90	920	3,470	410	380	410	1,510	9,210
South Korea	28,850	10,000	2,560	130	1,140	1,870	780	560	770	2,190	18,850
Kuwait	8,150	6,250	5,700	10	160	50	40	90	30	190	1,900
Vietnam	17,540	5,650	1,580	60	950	1,680	270	390	220	520	11,890
Nepal	8,390	4,330	910	30	530	2,350	140	150	70	150	4,060

TABLE S2-13

International undergraduate student enrollment in U.S. universities, by field and selected places of origin: 2016–18

(Number)

Place of origin	All fields	S&E									Non-S&E
		Total	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
Canada	13,670	3,930	990	100	920	340	140	180	440	820	9,730
Malaysia	5,420	3,410	1,530	80	310	300	340	220	270	360	2,020
Nigeria	6,390	3,050	1,190	20	600	680	40	120	100	310	3,340
Mexico	9,340	2,150	280	70	210	310	90	110	240	860	7,180
Brazil	6,380	2,140	1,020	50	240	250	50	110	150	280	4,240
Japan	8,140	2,120	780	30	250	330	50	60	170	450	6,020
Taiwan	6,900	2,050	500	70	270	410	130	100	180	390	4,850
Indonesia	4,970	1,960	770	90	140	360	130	60	100	320	3,010
Oman	3,640	1,660	760	10	60	380	30	30	90	300	1,980
Turkey	2,510	1,640	1,300	10	50	90	20	80	20	80	860
Pakistan	3,230	1,640	660	10	110	430	70	50	40	290	1,580
United Kingdom	4,310	1,530	300	60	170	250	120	80	190	370	2,790
Venezuela	6,390	1,500	220	40	210	130	80	80	260	480	4,890
Other locations	105,750	36,770	12,660	700	4,990	6,200	1,280	1,590	2,670	6,680	68,970
2018											
All locations	435,260	179,440	56,960	3,150	17,420	35,400	16,660	8,370	9,990	31,490	255,830
China	143,310	63,480	12,890	1,390	4,120	11,710	12,090	3,520	3,300	14,470	79,830
India	22,410	12,780	4,620	100	1,100	3,940	510	440	480	1,600	9,630
Saudi Arabia	23,150	10,780	6,970	40	580	1,880	110	450	160	600	12,360
South Korea	26,190	9,420	2,300	160	1,060	2,010	750	510	710	1,920	16,770
Vietnam	18,390	6,430	1,730	70	1,090	1,960	330	450	250	550	11,960
Kuwait	7,730	6,050	5,430	0	180	50	40	80	30	230	1,680
Nepal	8,150	4,430	970	40	480	2,390	160	160	70	160	3,730
Canada	13,110	3,830	930	100	870	400	160	160	430	790	9,270
Nigeria	6,450	3,130	1,200	20	660	700	50	90	100	310	3,320
Malaysia	4,890	3,000	1,350	70	270	350	260	200	220	300	1,890
Brazil	9,210	2,410	850	40	290	400	60	80	220	480	6,800
Taiwan	7,220	2,240	530	70	290	480	160	100	210	400	4,970
Japan	9,170	2,230	270	60	210	370	100	120	260	860	6,940
Indonesia	4,860	1,980	740	80	160	370	150	50	110	320	2,870
Mexico	5,380	1,800	790	40	190	230	50	90	120	300	3,570
Pakistan	3,380	1,750	640	10	120	500	80	50	50	300	1,630

TABLE S2-13

International undergraduate student enrollment in U.S. universities, by field and selected places of origin: 2016–18

(Number)

Place of origin	All fields	S&E									Non-S&E
		Total	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
Turkey	3,520	1,630	720	10	90	380	40	30	100	270	1,890
Oman	2,410	1,590	1,210	10	40	100	20	100	10	100	830
Hong Kong	4,020	1,480	270	60	150	280	110	70	180	370	2,540
United Kingdom	6,260	1,460	210	40	210	140	80	80	260	440	4,810
Other locations	106,090	37,530	12,350	770	5,260	6,780	1,380	1,540	2,720	6,730	68,560

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. The data reflect fall enrollment in a given year and include students with "active" status as of 15 November of that year.

Source(s)

U.S. Department of Homeland Security, U.S. Immigration and Customs Enforcement, special tabulations (2018) of the Student and Exchange Visitor Information System (SEVIS) database.

Science and Engineering Indicators

TABLE S2-14

International graduate student enrollment in U.S. universities, by field and selected places of origin: 2016–18

(Number)

Place of origin	All fields	S&E									Non-S&E
		Total	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
2016											
All locations	389,310	244,040	96,330	3,970	15,700	70,630	15,780	18,210	3,360	20,070	145,270
India	117,540	95,950	39,470	470	3,280	47,430	1,380	2,310	310	1,300	21,590
China	123,290	76,400	30,840	1,330	5,500	13,110	10,230	7,500	810	7,080	46,890
Iran	9,270	7,680	5,020	110	220	970	220	790	40	330	1,590
South Korea	17,880	6,740	2,450	110	590	630	470	570	280	1,640	11,140
Saudi Arabia	12,510	5,810	1,930	110	720	1,480	410	560	110	500	6,700
Taiwan	8,780	4,370	1,840	70	530	750	240	540	100	300	4,410
Bangladesh	4,480	3,560	1,810	60	230	650	110	430	10	280	920
Nepal	4,880	3,410	800	220	430	930	90	700	30	210	1,470
Canada	9,330	2,650	620	60	440	160	180	320	360	520	6,680
Nigeria	4,810	2,190	810	110	200	440	80	190	30	340	2,620
Turkey	3,470	2,070	810	20	180	230	110	150	70	510	1,400
Mexico	3,400	1,570	490	90	190	90	90	170	40	410	1,830
Sri Lanka	1,610	1,370	220	40	130	90	180	660	10	50	240
Pakistan	2,240	1,340	530	20	60	370	40	90	20	220	900
Vietnam	3,130	1,330	370	10	100	310	170	160	20	190	1,800
Colombia	2,510	1,220	400	80	160	80	80	140	30	260	1,290
Brazil	3,490	1,210	290	150	170	90	50	110	50	300	2,280
France	2,370	1,050	530	20	70	90	80	70	20	180	1,330
Germany	2,270	1,010	190	30	140	70	80	140	50	330	1,260
Japan	2,660	990	200	20	90	80	30	90	60	420	1,670
Other locations	49,380	22,130	6,740	870	2,300	2,620	1,480	2,520	900	4,690	27,260
2017											
All locations	367,920	229,310	88,960	3,920	15,530	61,460	18,110	18,140	3,340	19,850	138,610
China	124,990	79,580	30,840	1,210	5,490	14,680	11,910	7,430	860	7,160	45,410
India	96,760	77,500	32,110	460	3,000	36,200	1,800	2,280	320	1,330	19,260
Iran	9,150	7,640	4,910	110	240	1,010	200	800	60	320	1,510
South Korea	17,050	6,650	2,360	120	590	650	470	600	260	1,600	10,410
Saudi Arabia	10,850	5,200	1,750	90	700	1,270	350	500	110	430	5,640
Taiwan	8,810	4,580	1,870	70	470	930	310	520	110	300	4,230
Bangladesh	4,620	3,810	1,930	70	260	670	120	490	10	260	810
Nepal	4,820	3,430	840	220	460	850	100	730	20	210	1,390

TABLE S2-14

International graduate student enrollment in U.S. universities, by field and selected places of origin: 2016–18

(Number)

Place of origin	All fields	S&E									Non-S&E
		Total	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
Canada	8,970	2,640	610	70	410	210	170	310	360	500	6,330
Nigeria	5,340	2,420	880	120	230	530	110	200	30	320	2,920
Turkey	3,550	2,080	820	20	190	260	90	150	80	470	1,470
Mexico	3,230	1,550	470	90	190	90	80	190	40	420	1,690
Vietnam	3,300	1,520	390	10	120	390	200	180	40	200	1,780
Sri Lanka	1,700	1,470	260	30	140	100	180	690	10	60	240
Pakistan	2,320	1,420	530	20	70	390	60	110	20	230	900
Brazil	3,810	1,360	370	160	180	110	50	110	50	330	2,460
Colombia	2,480	1,190	370	80	150	80	80	130	30	260	1,300
France	2,250	1,060	530	20	70	100	90	70	20	170	1,190
Japan	2,590	990	210	20	100	80	30	80	50	410	1,600
Germany	2,170	970	180	30	120	80	70	130	50	310	1,200
Other locations	49,150	22,290	6,740	920	2,360	2,790	1,610	2,450	840	4,580	26,870
2018											
All locations	369,150	233,600	86,070	4,410	16,410	64,580	19,950	18,550	3,470	20,160	135,550
China	129,430	84,480	31,450	1,400	5,980	16,990	12,740	7,500	920	7,510	44,950
India	93,910	75,010	28,600	540	3,070	36,350	2,320	2,430	340	1,360	18,900
Iran	8,610	7,190	4,540	110	250	990	190	760	60	290	1,420
South Korea	16,690	6,850	2,290	140	620	720	510	630	270	1,670	9,840
Taiwan	8,990	4,870	1,910	90	480	1,120	370	500	100	290	4,130
Saudi Arabia	9,420	4,560	1,680	70	590	1,050	320	400	100	340	4,860
Bangladesh	5,320	4,420	2,220	90	310	780	160	570	10	300	900
Nepal	4,530	3,360	810	250	460	730	110	780	30	200	1,170
Nigeria	5,950	2,840	980	130	290	620	150	270	50	350	3,120
Canada	8,330	2,520	550	70	420	220	180	300	330	450	5,810
Turkey	3,620	2,210	860	20	190	310	110	150	90	480	1,410
Vietnam	3,450	1,670	400	10	140	420	240	200	40	210	1,780
Brazil	4,300	1,600	440	210	210	160	60	120	60	350	2,700
Pakistan	2,340	1,510	530	20	80	430	60	120	20	240	830
Mexico	2,910	1,420	410	70	200	90	80	170	40	370	1,490
Colombia	2,530	1,240	400	80	160	80	90	150	20	270	1,290
France	2,220	1,060	500	20	70	110	100	70	20	180	1,160
Japan	2,510	990	200	30	90	100	40	80	50	390	1,520

TABLE S2-14

International graduate student enrollment in U.S. universities, by field and selected places of origin: 2016–18

(Number)

Place of origin	All fields	S&E									Non-S&E
		Total	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
United Kingdom	2,440	860	100	20	130	70	70	150	60	260	1,580
Thailand	2,280	640	210	20	50	170	50	50	20	70	1,650
Other locations	49,380	24,320	6,990	1,020	2,600	3,060	2,010	3,160	850	4,610	25,070

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. The data reflect fall enrollment in a given year and include students with "active" status as of 15 November of that year.

Source(s)

U.S. Department of Homeland Security, U.S. Immigration and Customs Enforcement, special tabulations (2018) of the Student and Exchange Visitor Information System (SEVIS) database.

Science and Engineering Indicators

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Argentina																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	79,533	80,296	82,919	76,413	76,413	88,639	NA
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24,940	25,868	27,543	16,192	16,192	30,072	NA
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,713	2,830	2,832	4,686	4,686	3,448	NA
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,385	2,367	2,482	NA	NA	2,120	NA
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,586	3,023	2,968	3,273	3,273	2,893	NA
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10,312	10,400	11,004	NA	NA	11,643	NA
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,944	7,248	8,257	8,233	8,233	9,968	NA
Australia																	
All fields	112,745	129,499	137,877	152,287	130,298	176,906	171,582	176,136	177,155	181,457	191,080	196,662	NA	194,610	194,308	192,490	198,097
S&E fields	32,605	37,064	42,598	47,337	44,521	53,129	52,411	51,826	50,029	48,736	48,947	51,115	NA	53,249	53,884	55,182	55,093
Physical and biological sciences and mathematics and statistics	9,070	9,502	9,173	9,040	10,059	11,355	11,849	12,284	12,236	12,257	12,070	12,414	NA	12,838	13,801	16,008	16,020
Computer sciences	5,218	6,896	11,075	14,953	11,904	13,691	12,348	10,737	9,210	7,808	7,211	7,389	NA	6,395	6,141	6,279	6,442
Agricultural sciences	1,366	1,666	1,432	1,534	1,503	1,501	1,462	1,523	1,448	1,480	1,513	1,522	NA	1,222	1,133	1,071	1,159
Social and behavioral sciences	7,414	8,562	9,251	9,673	11,012	14,248	14,395	14,619	14,646	14,301	14,907	15,748	NA	16,649	16,749	17,859	17,418
Engineering	9,537	10,438	11,667	12,137	10,043	12,334	12,357	12,663	12,489	12,890	13,246	14,042	NA	16,145	16,060	13,966	14,054
Austria																	
All fields	15,132	16,754	16,826	18,207	20,288	21,908	23,460	24,242	27,399	31,987	32,143	35,633	38,735	40,811	37,254	37,264	37,358
S&E fields	5,652	6,253	6,576	7,400	8,440	9,135	10,469	10,622	10,906	12,576	12,738	14,164	15,183	14,832	14,285	14,900	15,809
Physical and biological sciences and mathematics and statistics	847	901	944	1,069	1,081	1,321	1,601	1,289	1,474	1,828	2,114	2,423	2,399	2,688	2,592	2,556	2,576
Computer sciences	427	397	451	507	1,026	1,438	1,902	1,947	1,721	1,936	1,454	1,444	1,392	1,412	1,467	1,322	1,342
Agricultural sciences	405	386	346	426	301	352	339	353	359	282	313	409	451	392	376	327	390
Social and behavioral sciences	1,362	1,492	1,763	2,155	2,860	2,908	3,269	3,338	3,539	4,341	4,344	5,119	6,221	5,657	5,050	6,419	6,965
Engineering	2,611	3,077	3,072	3,243	3,172	3,116	3,358	3,695	3,813	4,189	4,513	4,769	4,720	4,683	4,801	4,276	4,537
Belgium																	
All fields	22,526	23,289	24,591	24,384	24,874	24,682	25,143	46,477	35,906	25,014	25,949	24,835	25,401	83,328	61,356	70,513	37,891
S&E fields	9,191	9,725	9,955	10,306	10,550	10,974	11,215	20,374	14,624	10,176	9,933	10,131	10,251	26,608	18,109	16,482	10,702
Physical and biological sciences and mathematics and statistics	1,643	1,699	1,707	1,900	1,890	1,592	1,565	2,820	1,531	1,216	1,102	1,079	1,058	2,544	1,575	1,954	1,292
Computer sciences	327	427	583	484	589	1,108	1,103	1,407	731	291	297	259	295	1,597	1,280	990	851
Agricultural sciences	821	897	760	834	905	956	943	1,690	1,625	1,328	804	737	729	1,853	1,536	1,270	831
Social and behavioral sciences	3,053	3,155	3,224	3,467	3,402	3,921	4,009	7,447	5,336	4,025	3,940	4,200	4,202	9,788	6,372	5,702	2,965
Engineering	3,347	3,547	3,681	3,621	3,764	3,397	3,595	7,010	5,401	3,316	3,790	3,856	3,967	10,826	7,346	6,566	4,763

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Brazil																	
All fields	NA	NA	NA	NA	528,223	600,377	677,154	694,150	761,436	820,971	811,197	846,078	861,378	991,010	1,027,092	1,150,067	1,169,449
S&E fields	NA	NA	NA	NA	126,780	130,656	145,983	151,414	156,265	151,666	146,774	156,610	164,809	208,304	219,525	235,267	262,301
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	20,227	22,493	25,254	25,110	27,491	26,041	15,901	18,747	20,567	19,927	20,806	23,066	23,717
Computer sciences	NA	NA	NA	NA	20,098	17,266	18,983	18,580	19,612	21,525	19,272	18,422	19,536	35,249	35,560	37,464	37,943
Agricultural sciences	NA	NA	NA	NA	9,888	10,058	11,543	13,855	14,693	17,104	16,691	17,618	16,752	19,111	20,120	22,641	24,920
Social and behavioral sciences	NA	NA	NA	NA	46,111	51,990	58,250	56,879	57,118	44,236	48,441	50,780	47,012	43,198	43,734	46,165	50,163
Engineering	NA	NA	NA	NA	30,456	28,849	31,953	36,990	37,351	42,760	46,469	51,043	60,942	90,819	99,305	105,931	125,558
Bulgaria																	
All fields	NA	NA	NA	NA	NA	29,535	NA	NA	NA	NA	36,477	NA	NA	38,303	35,556	34,158	33,313
S&E fields	NA	NA	NA	NA	NA	13,381	NA	NA	NA	NA	15,547	NA	NA	16,648	14,786	14,118	13,224
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	1,314	NA	NA	NA	NA	1,438	NA	NA	1,412	1,243	1,224	1,110
Computer sciences	NA	NA	NA	NA	NA	676	NA	NA	NA	NA	949	NA	NA	1,247	1,100	1,222	1,123
Agricultural sciences	NA	NA	NA	NA	NA	434	NA	NA	NA	NA	758	NA	NA	537	523	547	610
Social and behavioral sciences	NA	NA	NA	NA	NA	5,963	NA	NA	NA	NA	6,757	NA	NA	7,577	6,734	6,266	5,706
Engineering	NA	NA	NA	NA	NA	4,994	NA	NA	NA	NA	5,645	NA	NA	5,875	5,186	4,859	4,675
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	197,776	203,561	194,598
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	77,886	77,149	81,880	77,834
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	21,024	17,959	19,090	17,362
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	3,525	3,773	3,732
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	2,979	3,077	2,943
Social and 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	35,610	37,337	39,256	37,509
Engineering	9,677	NA	NA	NA	10,658	12,312	12,369	12,309	13,603	13,538	13,281	12,633	13,277	16,418	15,349	16,685	16,288
Chile																	
All fields	NA	NA	NA	NA	71,502	23,530	39,361	40,320	42,044	55,985	53,286	54,901	56,659	32,093	37,286	43,815	43,710
S&E fields	NA	NA	NA	NA	26,506	11,205	18,663	13,810	14,711	18,183	16,358	16,767	18,232	10,454	10,275	11,383	11,158
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	2,232	773	1,154	850	1,140	970	906	966	1,116	2,525	207	185	193
Computer sciences	NA	NA	NA	NA	2,811	581	1,341	735	700	1,279	1,056	1,077	1,273	20	2,860	2,904	2,866
Agricultural sciences	NA	NA	NA	NA	2,781	1,498	1,924	1,332	1,547	2,017	1,977	2,023	2,091	364	438	440	477
Social and behavioral sciences	NA	NA	NA	NA	7,955	4,310	7,295	4,450	4,745	5,612	4,666	4,961	5,209	1,626	175	210	103
Engineering	NA	NA	NA	NA	10,727	4,043	6,949	6,443	6,579	8,305	7,753	7,740	8,543	5,920	6,596	7,645	7,520

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	3,585,940	NA
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	1,716,413	NA
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	255,632	NA
Computer sciences	NA	NA	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	60,908	NA
Social and 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	219,365	NA
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	1,180,508	NA
Colombia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	117,624	157,574	167,897	178,379	192,631
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42,920	116,895	59,894	62,529	68,613
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,317	3,692	3,054	2,949	2,895
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68	NA	7,526	7,407	7,845
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,937	2,209	3,533	3,105	3,452
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11,867	76,418	16,608	18,180	19,674
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25,731	34,576	29,173	30,888	34,747
Costa Rica																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38,487	41,546	39,937	38,324
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21,588	8,834	7,838	9,005
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,561	335	563	724
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,020	1,766	1,903
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	476	427	274	421
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,791	2,848	2,068	2,988
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,760	3,204	3,167	2,969
Croatia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19,362	18,059	18,951	18,027
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,615	6,387	6,694	6,756
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	598	730	772	734
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,041	698	871	884
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	721	707	761	738
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,409	1,373	1,395	1,273
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,846	2,879	2,895	3,127

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Cyprus																	
All fields	NA	NA	NA	NA	NA	1,410	NA	NA	NA	NA	2,348	NA	NA	3,374	3,589	3,564	3,481
S&E fields	NA	NA	NA	NA	NA	384	NA	NA	NA	NA	787	NA	NA	1,075	1,144	1,191	1,157
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	84	NA	NA	NA	NA	95	NA	NA	125	146	153	185
Computer sciences	NA	NA	NA	NA	NA	118	NA	NA	NA	NA	137	NA	NA	129	147	147	132
Agricultural sciences	NA	NA	NA	NA	NA	*	NA	NA	NA	NA	*	NA	NA	22	29	34	28
Social and behavioral sciences	NA	NA	NA	NA	NA	174	NA	NA	NA	NA	278	NA	NA	304	312	323	363
Engineering	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	277	NA	NA	495	510	534	449
Czechia																	
All fields	25,544	25,854	27,045	28,652	33,126	38,415	45,226	51,419	55,611	57,548	60,525	60,617	60,195	62,521	59,735	48,479	45,636
S&E fields	11,207	11,246	11,857	12,213	12,551	14,099	16,862	19,128	21,894	20,864	20,521	19,711	19,790	20,497	19,955	18,035	17,261
Physical and biological sciences and mathematics and statistics	1,298	1,264	1,484	1,582	1,865	1,789	1,991	2,216	3,060	2,828	2,971	2,841	2,845	3,052	3,722	2,389	2,339
Computer sciences	1,930	2,257	2,378	943	1,036	1,180	1,736	2,053	2,567	2,733	2,647	2,613	2,629	2,856	2,716	2,087	1,871
Agricultural sciences	1,090	1,217	1,202	1,364	1,430	1,642	1,999	1,944	2,001	2,042	1,948	2,076	2,284	2,211	1,818	1,605	1,639
Social and behavioral sciences	2,581	2,344	2,495	2,197	1,354	2,204	2,650	3,033	3,734	5,001	5,437	5,638	5,512	5,291	4,730	5,305	4,869
Engineering	4,308	4,164	4,298	6,127	6,866	7,284	8,486	9,882	10,532	8,260	7,518	6,543	6,520	7,087	6,969	6,649	6,543
Denmark																	
All fields	6,735	23,848	23,054	24,904	29,518	31,222	30,049	30,534	29,750	29,510	32,073	33,115	32,643	37,610	41,234	42,581	45,505
S&E fields	2,364	4,606	4,519	5,153	7,354	7,583	7,326	8,390	8,080	7,925	8,312	8,560	8,655	8,697	10,416	10,798	12,791
Physical and biological sciences and mathematics and statistics	507	610	657	880	1,252	1,103	902	1,013	961	1,008	1,130	1,148	1,061	1,179	1,356	1,338	2,251
Computer sciences	161	153	159	193	567	598	597	519	638	685	862	1,080	1,174	1,277	1,537	936	1,447
Agricultural sciences	171	242	183	134	242	229	196	216	314	322	385	326	210	232	409	615	522
Social and behavioral sciences	1,484	1,924	1,899	2,191	2,267	2,269	2,254	2,384	2,213	2,444	2,665	2,489	2,568	2,313	3,031	3,519	4,480
Engineering	41	1,677	1,621	1,755	3,026	3,384	3,377	4,258	3,954	3,466	3,270	3,517	3,642	3,696	4,083	4,390	4,091
Estonia																	
All fields	NA	NA	NA	NA	NA	5,801	5,605	5,820	4,995	4,926	4,837	5,172	4,747	8,007	7,398	7,346	7,139
S&E fields	NA	NA	NA	NA	NA	2,085	1,995	2,140	1,899	1,799	1,722	1,916	1,848	2,662	2,450	2,497	2,504
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	420	309	364	347	279	276	313	347	420	349	381	388
Computer sciences	NA	NA	NA	NA	NA	303	285	310	233	197	214	226	233	392	371	359	441
Agricultural sciences	NA	NA	NA	NA	NA	247	204	188	176	157	155	198	181	178	130	132	124
Social and behavioral sciences	NA	NA	NA	NA	NA	459	606	679	633	654	545	602	519	486	536	569	628
Engineering	NA	NA	NA	NA	NA	656	591	599	510	512	532	577	568	1,186	1,064	1,056	923

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Finland																	
All fields	25,269	28,272	31,825	34,975	36,308	36,506	37,948	40,732	57,515	30,873	32,946	34,772	35,345	34,362	35,061	37,761	36,915
S&E fields	10,425	10,388	11,821	12,808	13,661	13,787	14,219	15,044	21,862	10,139	11,745	12,249	12,180	11,656	11,821	12,946	12,918
Physical and biological sciences and mathematics and statistics	1,256	1,133	1,103	1,102	1,471	1,251	1,377	1,569	3,600	965	1,112	1,129	1,015	899	929	1,212	1,125
Computer sciences	585	737	1,124	1,379	1,682	1,777	1,719	1,749	2,993	1,057	1,230	1,119	1,110	2,307	2,274	2,415	2,518
Agricultural sciences	575	748	713	815	865	845	851	869	1,286	665	790	762	721	716	714	818	802
Social and behavioral sciences	1,716	1,719	1,848	1,905	1,914	1,976	2,325	2,624	5,283	1,669	1,921	1,952	1,959	1,596	1,671	1,878	1,799
Engineering	6,293	6,051	7,033	7,607	7,729	7,938	7,947	8,233	8,700	5,783	6,692	7,287	7,375	6,138	6,233	6,623	6,674
France																	
All fields	275,316	300,088	309,009	328,784	328,784	273,523	285,238	287,035	287,234	286,450	NA	NA	NA	NA	NA	340,449	356,330
S&E fields	120,705	130,705	117,832	125,304	125,304	101,548	107,572	107,200	106,765	106,462	NA	NA	NA	NA	NA	127,138	129,028
Physical and biological sciences and mathematics and statistics	42,121	46,051	35,356	37,549	37,549	23,100	24,877	24,871	23,474	22,345	NA	NA	NA	NA	NA	26,993	28,292
Computer sciences	6,432	6,889	7,101	7,536	7,536	9,740	10,332	9,938	10,425	11,341	NA	NA	NA	NA	NA	12,465	12,852
Agricultural sciences	2,724	2,871	661	710	710	3,041	3,398	3,234	3,158	3,297	NA	NA	NA	NA	NA	4,455	4,061
Social and behavioral sciences	35,135	38,708	33,493	35,602	35,602	27,265	29,556	28,613	28,685	28,278	NA	NA	NA	NA	NA	32,145	31,449
Engineering	34,293	36,186	41,221	43,907	43,907	38,402	39,409	40,544	41,023	41,201	NA	NA	NA	NA	NA	51,080	52,374
Germany																	
All fields	178,618	173,407	176,025	183,322	196,608	197,770	267,597	294,357	322,651	356,522	369,059	383,166	386,090	369,046	374,904	380,059	380,089
S&E fields	69,053	65,380	66,357	69,549	74,979	78,470	100,212	110,774	124,465	134,781	144,724	152,872	155,223	157,719	158,833	161,118	155,533
Physical and biological sciences and mathematics and statistics	14,851	13,750	14,196	14,079	15,054	16,358	24,784	28,485	34,751	39,573	41,441	43,267	41,630	30,014	29,826	28,210	26,050
Computer sciences	5,365	5,600	6,193	7,603	10,367	12,199	13,824	15,623	16,186	16,932	16,560	16,276	16,312	15,105	15,474	16,392	16,127
Agricultural sciences	3,030	2,931	2,971	3,382	3,524	3,192	3,272	3,336	3,694	3,888	3,836	4,396	4,266	7,165	7,195	7,261	7,067
Social and behavioral sciences	9,488	8,997	10,198	10,937	11,935	13,356	24,125	26,842	29,705	30,224	33,876	34,671	34,368	23,691	24,009	23,138	22,974
Engineering	36,319	34,102	32,799	33,548	34,099	33,365	34,207	36,488	40,129	44,164	49,011	54,262	58,647	81,744	82,330	86,117	83,316
Greece																	
All fields	NA	NA	NA	NA	29,474	35,219	NA	30,437	35,425	NA	32,723	32,988	32,809	53,394	53,979	51,044	51,935
S&E fields	NA	NA	NA	NA	12,073	15,013	NA	13,526	16,122	NA	15,040	15,222	14,687	26,199	25,398	22,381	21,905
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	4,679	4,146	NA	2,677	3,280	NA	3,320	3,353	3,275	3,375	3,687	3,930	3,572
Computer sciences	NA	NA	NA	NA	1,030	1,745	NA	822	1,199	NA	1,017	1,016	1,074	2,440	2,251	1,370	1,419
Agricultural sciences	NA	NA	NA	NA	271	668	NA	1,042	1,000	NA	986	1,079	1,143	3,039	2,240	1,660	1,294
Social and behavioral sciences	NA	NA	NA	NA	5,044	5,206	NA	5,756	6,676	NA	5,514	5,811	5,352	6,987	7,157	5,222	6,137
Engineering	NA	NA	NA	NA	1,049	3,248	3,848	3,229	3,967	NA	4,203	3,963	3,843	10,358	10,063	10,199	9,483

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Hungary																	
All fields	46,978	47,436	50,505	52,812	53,514	57,162	53,114	51,458	49,067	52,364	49,380	41,506	38,456	37,979	39,578	41,917	40,271
S&E fields	10,784	10,354	11,783	12,436	14,503	13,915	12,489	12,884	12,212	16,566	17,152	14,122	12,961	13,597	14,355	15,489	15,271
Physical and biological sciences and mathematics and statistics	562	578	656	864	814	778	771	719	761	1,679	2,129	1,701	1,408	1,606	1,721	1,878	1,839
Computer sciences	504	485	617	584	1,234	1,262	2,825	2,979	2,537	2,166	1,788	1,360	1,113	956	935	1,099	2,135
Agricultural sciences	1,754	1,753	1,992	1,912	1,842	1,665	1,532	1,533	1,110	1,187	1,344	871	659	758	846	961	1,314
Social and behavioral sciences	3,089	3,574	3,759	4,582	6,279	5,960	3,567	3,463	3,691	6,440	6,484	5,009	4,533	4,376	4,326	4,277	3,630
Engineering	4,875	3,964	4,759	4,494	4,334	4,250	3,794	4,190	4,113	5,094	5,407	5,181	5,248	5,901	6,527	7,274	6,353
Iceland																	
All fields	1,440	1,636	1,688	2,001	2,295	2,451	2,794	2,805	2,672	2,442	2,864	NA	2,828	2,543	NA	NA	2,700
S&E fields	399	480	490	578	636	612	699	745	762	717	828	NA	1,060	928	NA	NA	1,132
Physical and biological sciences and mathematics and statistics	94	111	98	105	119	124	130	127	106	91	122	NA	140	134	NA	NA	132
Computer sciences	51	67	113	121	140	86	84	63	65	68	63	NA	87	97	NA	NA	225
Agricultural sciences	9	23	11	16	20	18	23	21	11	11	14	NA	31	33	NA	NA	49
Social and behavioral sciences	152	180	188	215	223	248	268	346	354	334	340	NA	483	384	NA	NA	393
Engineering	93	99	80	121	134	136	194	188	226	213	289	NA	319	280	NA	NA	333
India																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,657,525	6,253,524	6,840,370	6,657,525
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,578,565	4,231,819	4,762,561	4,578,565
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	927,905	793,632	908,886	927,905
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	338,062	420,249	469,927	338,062
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48,258	35,733	37,040	48,258
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,396,732	2,215,215	2,525,629	2,396,732
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	867,608	766,990	821,079	867,608
Indonesia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	577,985	531,943	604,435	NA	899,759	673,231	822,182
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	214,762	206,049	234,221	NA	270,865	217,393	NA
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23,700	22,403	25,450	NA	13,712	18,101	NA
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14,405	13,532	15,380	NA	91,191	37,342	NA
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39,494	37,553	42,659	NA	30,604	24,360	NA
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34,663	31,564	35,846	NA	49,685	82,806	NA
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	102,500	100,997	114,886	NA	85,673	54,784	NA

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Ireland																	
All fields	19,407	19,648	21,752	24,915	25,865	26,486	28,132	29,448	29,379	27,412	27,084	27,443	27,368	29,391	40,856	41,072	39,939
S&E fields	6,897	7,017	7,755	7,921	8,338	5,736	NA	NA	NA	7,060	7,611	7,853	10,931	7,683	12,111	14,541	14,294
Physical and biological sciences and mathematics and statistics	2,379	2,220	2,323	2,141	2,071	1,075	NA	NA	NA	1,843	1,740	2,530	2,685	1,689	2,633	3,724	3,635
Computer sciences	1,257	1,622	1,892	2,346	2,102	1,015	NA	NA	NA	747	988	530	895	953	1,993	2,587	2,822
Agricultural sciences	295	286	285	265	288	229	238	334	269	274	274	301	301	263	611	872	930
Social and behavioral sciences	908	1,154	1,342	942	1,333	808	NA	NA	NA	1,474	1,479	1,429	3,946	1,699	1,902	2,453	2,250
Engineering	2,058	1,735	1,913	2,227	2,544	2,609	2,505	2,027	2,780	2,722	3,130	3,063	3,104	3,079	4,972	4,905	4,657
Israel																	
All fields	30,267	30,545	31,962	33,480	34,703	36,261	38,065	39,259	39,357	40,583	42,850	44,846	47,413	49,567	51,761	50,688	51,856
S&E fields	14,259	15,526	16,154	17,386	16,577	17,141	17,409	18,533	18,046	17,897	20,989	22,078	25,079	23,358	23,892	23,766	23,380
Physical and biological sciences and mathematics and statistics	2,999	3,525	3,780	3,983	4,691	4,567	4,097	2,826	2,649	2,580	2,507	2,284	2,703	2,330	2,079	2,145	2,313
Computer sciences	NA	NA	NA	NA	NA	NA	NA	947	1,031	1,149	1,409	1,478	1,722	2,418	2,513	2,467	2,680
Agricultural sciences	171	181	224	214	195	222	242	259	258	184	201	203	221	213	250	255	256
Social and behavioral sciences	8,327	8,465	8,133	8,626	7,307	7,241	7,995	9,765	9,520	9,080	11,774	12,577	14,376	12,810	13,252	13,127	12,460
Engineering	2,762	3,355	4,017	4,563	4,384	5,111	5,075	4,736	4,588	4,904	5,098	5,536	6,057	5,587	5,799	5,773	5,671
Italy																	
All fields	150,677	159,276	171,806	201,019	264,574	291,304	273,451	251,155	231,082	222,631	211,770	216,509	204,675	221,907	225,599	219,037	225,115
S&E fields	59,851	62,075	65,964	76,848	108,879	122,124	115,346	102,942	91,827	89,220	84,546	84,737	72,315	82,834	85,799	87,381	83,830
Physical and biological sciences and mathematics and statistics	12,008	11,865	12,622	13,603	16,750	16,957	15,569	13,455	12,991	13,095	13,094	13,237	12,493	14,266	14,471	14,650	14,538
Computer sciences	1,704	1,626	1,519	2,423	3,211	3,459	3,541	3,385	2,933	2,870	2,778	2,420	2,223	2,247	2,240	8,537	2,483
Agricultural sciences	2,492	2,729	3,117	4,083	4,760	4,968	4,804	4,744	4,286	4,332	3,311	4,133	4,092	4,365	4,843	5,075	5,780
Social and behavioral sciences	15,962	17,082	18,541	21,377	38,259	47,616	47,003	42,230	36,664	34,654	32,644	32,118	30,231	29,354	30,631	33,120	28,858
Engineering	27,685	28,773	30,165	35,362	45,899	49,124	44,429	39,128	34,953	34,269	32,719	32,829	23,276	32,602	33,614	25,999	32,171
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	578,990	576,012
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	180,888	178,891
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	18,233	18,112
Computer sciences	4,941	4,965	NA	NA	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	17,610	17,379
Social and 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	59,069	58,100
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	85,976	85,300

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Latvia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12,886	12,763	8,838	8,908	8,358
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,759	3,613	2,794	3,112	2,913
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	294	292	280	326	258
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	402	386	330	364	360
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	161	157	160	200	165
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,388	1,117	978	1,081	1,031
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,514	1,661	1,046	1,141	1,099
Lithuania																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30,688	25,344	24,518	22,563
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10,777	9,394	8,965	8,443
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	798	773	797	840
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	676	529	442	468
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	590	535	559	529
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,167	2,948	2,813	2,472
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,546	4,609	4,354	4,134
Luxembourg																	
All fields	232	NA	NA	NA	NA	NA	NA	NA	330	NA	NA	NA	635	617	599	625	750
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	128	NA	NA	NA	197	177	199	190	268
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	38	15	34	19	29
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	44	NA	NA	NA	26	24	14	21	33
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	*	NA	NA	NA	*	NA	NA	NA	31
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	58	NA	NA	NA	93	92	100	107	123
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	40	46	51	43	52
Malta																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,153	2,108	2,067	2,166
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	827	840	848	843
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	191	163	280	120
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	219	221	212	207
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	12	2	11
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	256	246	227	277
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	161	198	127	228

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Mexico																	
All fields	287,019	296,485	321,799	280,589	276,690	309,266	339,340	343,328	336,810	362,241	372,997	402,476	425,754	450,922	467,079	486,967	580,231
S&E fields	96,474	101,635	113,201	99,134	104,934	121,523	131,743	136,777	130,418	143,152	145,876	159,873	170,472	180,755	189,782	194,886	221,456
Physical and biological sciences and mathematics and statistics	7,309	7,252	9,076	7,610	8,103	9,308	10,261	10,684	11,033	11,682	11,668	11,601	12,745	12,768	14,197	15,176	16,167
Computer sciences	18,236	21,305	22,176	24,221	23,574	27,702	28,844	27,612	26,354	25,604	12,392	12,621	12,676	12,557	11,706	9,395	10,155
Agricultural sciences	5,495	5,873	6,911	5,978	6,119	6,169	6,806	6,764	6,454	7,645	6,656	6,794	8,008	8,895	9,575	10,394	11,135
Social and behavioral sciences	25,099	26,203	30,356	14,211	24,292	31,016	33,577	38,935	33,751	41,688	43,712	44,621	46,651	46,204	46,965	48,511	58,518
Engineering	40,335	41,002	44,682	47,114	42,846	47,328	52,255	52,782	52,826	56,533	71,448	84,236	90,392	100,331	107,339	111,410	125,481
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	98,461	99,426
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	25,987	26,714	28,257	28,577
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	3,547	3,762	3,977	4,171
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	2,047	2,067	2,250	2,538
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	927	984	1,014	937
Social and 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	11,890	12,276	13,220	13,144
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	7,576	7,625	7,796	7,787
New Zealand																	
All fields	20,968	21,414	21,285	20,925	28,451	29,178	31,737	31,975	29,816	31,712	30,657	34,479	37,660	34,756	35,178	36,728	36,520
S&E fields	4,530	5,187	7,086	6,812	8,535	8,815	9,850	9,094	10,026	11,823	11,643	12,742	14,227	11,412	11,499	12,042	12,450
Physical and biological sciences and mathematics and statistics	2,348	2,521	1,551	1,418	2,131	2,279	2,466	2,343	2,752	3,036	3,013	3,252	3,664	2,717	2,599	2,707	2,583
Computer sciences	392	453	1,500	1,623	1,931	1,888	1,738	1,397	1,255	1,406	1,396	1,420	1,723	1,544	1,815	2,186	2,476
Agricultural sciences	258	271	290	264	303	322	436	362	243	268	282	255	311	455	461	545	490
Social and behavioral sciences	547	563	2,380	2,285	2,662	2,685	3,271	3,100	3,606	4,879	4,589	5,390	5,793	4,031	3,855	3,755	3,828
Engineering	985	1,379	1,365	1,222	1,508	1,641	1,939	1,892	2,170	2,234	2,363	2,425	2,736	2,666	2,769	2,850	3,074
Norway																	
All fields	22,421	24,091	22,689	23,306	25,584	24,987	26,047	26,295	26,929	26,773	28,581	30,251	30,251	31,573	33,297	34,110	34,290
S&E fields	4,996	6,343	5,854	6,294	6,802	5,878	6,466	6,178	6,637	6,402	7,269	7,747	7,503	8,047	8,674	8,990	8,669
Physical and biological sciences and mathematics and statistics	146	168	131	88	250	224	428	475	528	564	712	726	760	1,025	1,097	1,148	984
Computer sciences	773	1,041	1,246	1,503	1,515	1,133	943	739	794	748	771	943	822	962	1,121	1,122	1,194
Agricultural sciences	270	280	190	179	194	208	207	233	185	197	177	187	177	187	198	240	233
Social and behavioral sciences	2,116	2,605	2,365	2,261	2,469	2,253	2,825	2,582	2,840	2,411	2,808	2,897	2,633	2,768	3,095	3,019	2,907
Engineering	1,691	2,249	1,922	2,263	2,374	2,060	2,063	2,149	2,290	2,482	2,801	2,994	3,111	3,105	3,163	3,461	3,351

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	238,225	218,759
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	103,833	96,989	95,076	92,830
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	10,151	9,446
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	8,785	8,756
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	4,103	3,805
Social and 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	26,259	26,060
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	43,456	44,110	45,778	44,763
Portugal																	
All fields	51,361	NA	NA	63,630	NA	50,319	50,666	63,924	65,747	55,639	54,011	51,713	51,010	59,168	55,424	55,360	54,991
S&E fields	15,553	NA	NA	18,505	NA	20,070	20,757	30,604	32,108	21,242	18,622	18,611	18,861	24,450	22,685	23,102	23,605
Physical and biological sciences and mathematics and statistics	1,122	NA	NA	2,535	NA	3,907	3,360	3,730	4,179	2,426	2,109	2,203	2,351	2,731	2,765	2,866	2,979
Computer sciences	1,559	NA	NA	835	NA	2,242	2,422	4,206	4,696	1,009	773	779	702	782	658	576	557
Agricultural sciences	882	NA	NA	1,236	NA	1,120	961	1,263	1,751	1,131	834	867	676	1,068	1,052	1,157	1,185
Social and behavioral sciences	5,703	NA	NA	5,682	NA	6,049	6,861	8,429	7,863	6,322	5,925	5,783	5,993	6,410	6,002	6,119	6,059
Engineering	6,287	NA	NA	8,217	NA	6,752	7,153	12,976	13,619	10,354	8,981	8,979	9,139	13,459	12,208	12,384	12,825
Romania																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97,661	82,850	76,780	72,147
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45,300	39,795	33,530	32,089
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,923	3,772	4,558	4,192
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,543	1,455	4,855	4,333
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,661	1,418	3,234	2,966
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,002	13,043	7,246	6,846
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23,171	20,107	13,637	13,752
Russia																	
All fields	NA	NA	NA	NA	NA	NA	1,151,645	NA	NA	1,358,463	1,442,317	1,441,533	1,406,050	129,375	1,234,449	1,150,775	1,223,070
S&E fields	NA	NA	NA	NA	NA	NA	252,752	NA	NA	440,873	463,356	445,876	429,052	67,013	473,720	407,487	527,757
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	26,492	34,475	23,627	22,913	5,066	21,648	27,939	36,641
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	64,190	68,668	67,765	63,072	8,342	48,064	46,443	56,036
Agricultural sciences	NA	NA	NA	NA	NA	NA	41,874	NA	NA	21,984	21,184	20,292	21,093	957	19,495	17,961	17,929
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	88,473	90,903	94,145	92,818	33,439	165,999	96,085	159,441
Engineering	NA	NA	NA	NA	NA	NA	210,878	NA	NA	239,734	248,126	240,047	229,156	19,209	218,514	219,059	257,710

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Saudi Arabia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85,105	90,562	96,380	130,577	130,577	154,596
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28,540	32,860	5,544	41,389	41,389	48,916
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12,261	13,685	NA	15,264	15,264	16,916
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,967	4,919	NA	5,663	5,663	7,176
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220	281	395	320	320	387
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,675	9,929	NA	14,195	14,195	17,596
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,417	4,046	5,149	5,947	5,947	6,841
Slovakia																	
All fields	20,129	23,588	24,896	23,814	25,881	27,085	30,516	34,019	50,040	53,742	42,027	38,602	36,263	34,478	32,354	29,346	26,933
S&E fields	5,756	8,450	9,334	8,139	8,637	9,618	9,341	10,703	14,814	16,040	12,459	11,384	10,932	11,839	11,034	10,153	9,457
Physical and biological sciences and mathematics and statistics	502	1,090	1,245	893	1,110	1,142	1,207	1,509	2,161	2,247	1,751	1,596	1,407	1,784	1,607	1,551	1,442
Computer sciences	829	1,062	1,023	942	1,083	1,041	1,072	1,356	1,475	1,565	1,487	1,364	1,261	970	971	1,054	992
Agricultural sciences	863	965	941	1,039	886	1,140	974	1,272	1,283	1,400	779	644	667	765	682	644	716
Social and behavioral sciences	485	1,162	1,707	1,505	1,580	1,817	1,920	2,253	4,033	4,480	3,421	3,262	3,332	4,124	3,931	3,443	3,223
Engineering	3,077	4,171	4,418	3,760	3,978	4,478	4,168	4,313	5,862	6,348	5,021	4,518	4,265	4,196	3,843	3,461	3,084
Slovenia																	
All fields	NA	NA	NA	NA	NA	6,197	6,617	6,347	6,645	7,729	9,616	10,255	12,102	13,918	13,181	12,545	21,244
S&E fields	NA	NA	NA	NA	NA	2,125	2,103	2,255	2,197	2,581	3,506	4,011	5,134	5,608	5,284	4,911	8,186
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	293	220	258	219	272	405	545	701	814	759	690	837
Computer sciences	NA	NA	NA	NA	NA	83	102	120	142	135	188	305	487	498	551	402	660
Agricultural sciences	NA	NA	NA	NA	NA	153	171	152	170	179	295	305	314	314	277	261	565
Social and behavioral sciences	NA	NA	NA	NA	NA	873	940	999	907	1,178	1,296	1,324	1,960	1,794	1,697	1,613	2,484
Engineering	NA	NA	NA	NA	NA	723	670	726	759	817	1,322	1,532	1,673	2,188	2,000	1,945	3,640
South Africa																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	57,188	61,194	64,547	72,762	85,203	92,321	NA
S&E fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21,625	22,497	23,458	8,718	32,208	35,944	NA
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,748	5,163	5,714	NA	7,600	8,060	NA
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,751	1,873	1,693	NA	2,670	2,746	NA
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,101	1,123	1,360	1,639	1,676	1,809	NA
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,498	8,623	8,626	NA	13,156	15,258	NA
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,527	5,715	6,065	7,079	7,106	8,071	NA

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
South Korea																	
All fields	214,498	239,702	244,852	258,126	267,058	268,833	270,546	277,858	315,204	310,025	308,162	321,798	325,665	325,113	329,444	350,706	359,288
S&E fields	99,352	113,988	116,317	119,104	124,479	123,440	120,612	121,293	134,850	130,740	128,788	135,113	133,996	132,817	132,823	141,363	146,438
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	19,998	19,902	20,566	20,037	23,726	24,288	25,682	26,456
Computer sciences	4,630	8,888	8,695	4,934	9,452	9,378	10,519	11,593	13,700	13,027	12,306	11,990	12,405	6,976	6,506	7,450	7,837
Agricultural sciences	6,479	6,210	6,153	2,530	3,520	4,753	4,437	4,215	4,854	4,742	4,354	4,419	4,405	3,047	3,049	3,039	3,047
Social and behavioral sciences	13,639	17,037	18,767	18,908	20,487	19,298	18,016	18,247	19,332	18,535	18,456	20,139	20,641	23,282	23,316	25,203	26,731
Engineering	56,508	62,316	64,942	70,500	70,374	70,802	68,601	67,983	77,238	74,438	73,770	77,999	76,508	75,786	75,664	79,989	82,367
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	216,903	235,672	225,531	203,253
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	81,704	83,052	83,145	71,040
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	12,014	12,233	12,853	11,277
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	7,179	6,859	6,374	5,196
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	4,196	4,033	3,313	3,255
Social and 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	20,842	21,241	19,466	18,728
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	37,473	38,686	41,139	32,584
Sweden																	
All fields	34,097	34,542	36,755	39,333	42,697	46,046	47,490	45,641	44,784	41,912	40,702	46,018	43,113	34,016	36,176	36,471	50,796
S&E fields	12,405	13,483	14,511	15,368	18,177	17,383	17,843	16,513	15,575	14,737	14,044	15,519	16,114	11,222	12,408	12,886	19,241
Physical and biological sciences and mathematics and statistics	1,405	1,582	1,578	1,639	1,967	1,890	1,960	1,846	1,776	1,724	1,455	1,499	1,319	901	1,061	1,243	1,456
Computer sciences	1,114	1,317	1,502	1,602	1,580	1,630	1,587	1,258	944	888	803	988	1,084	1,062	1,273	1,338	1,450
Agricultural sciences	300	320	283	301	305	316	291	226	289	289	246	278	344	119	145	167	297
Social and behavioral sciences	2,652	2,889	3,077	3,428	4,413	4,693	5,124	5,159	5,011	4,859	4,812	5,520	6,142	5,603	5,975	6,152	7,256
Engineering	6,934	7,375	8,071	8,398	9,912	8,854	8,881	8,024	7,555	6,977	6,728	7,234	7,225	3,537	3,954	3,986	8,782
Switzerland																	
All fields	19,028	18,516	17,840	18,358	19,985	21,259	25,254	27,423	29,132	28,731	28,622	28,280	28,733	50,095	52,405	53,818	53,378
S&E fields	6,303	6,079	6,127	6,170	7,111	7,543	8,928	9,837	10,020	9,308	8,689	9,091	9,581	15,684	15,922	17,102	17,371
Physical and biological sciences and mathematics and statistics	1,299	1,308	1,248	1,150	1,499	1,629	1,770	1,954	2,006	1,834	1,603	1,743	1,897	1,918	1,898	2,323	2,288
Computer sciences	178	334	481	549	841	826	898	937	925	677	619	606	637	1,394	1,336	1,544	1,593
Agricultural sciences	263	258	217	262	292	272	254	276	279	200	334	284	231	980	770	838	856
Social and behavioral sciences	1,264	1,304	1,333	1,514	1,920	2,121	2,950	3,253	3,687	3,257	3,053	3,247	3,102	3,122	3,033	3,174	3,191
Engineering	3,299	2,875	2,848	2,695	2,559	2,695	3,056	3,417	3,123	3,340	3,080	3,211	3,714	8,270	8,885	9,223	9,443

TABLE S2-15

S&E first university degrees, by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	229,546	232,417
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	81,755	80,504
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	9,272	9,612
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	13,691	12,959
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	4,457	4,681
Social and 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	7,406	7,865
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	46,929	45,387
Turkey																	
All fields	118,882	142,275	140,631	143,813	188,134	150,421	203,108	223,559	245,140	261,582	289,013	284,459	340,396	340,396	399,049	458,564	437,446
S&E fields	51,875	55,101	56,828	57,425	57,428	59,206	75,109	82,341	95,449	103,285	108,861	84,061	99,415	101,214	128,672	139,684	146,128
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	26,876	28,154	24,464	18,826
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	3,379	917	1,118	665
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	7,014	8,050	7,498	7,501
Social and behavioral sciences	17,503	18,584	19,538	20,748	20,430	20,509	34,863	37,680	45,071	48,860	57,485	28,423	34,618	34,618	47,834	54,652	59,999
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	29,327	43,717	51,952	59,137
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	394,636	399,718
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	165,792	169,832
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	64,498	66,964
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	15,567	15,275
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	3,783	3,844
Social and 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	48,626	50,821
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	33,319	32,928
United States																	
All fields	1,237,874	1,244,170	1,291,900	1,348,322	1,399,542	1,439,264	1,485,242	1,524,092	1,562,802	1,601,368	1,650,014	1,715,913	1,791,046	1,842,400	1,871,716	1,897,211	1,922,705
S&E fields	503,467	507,877	529,533	536,792	520,912	551,969	561,019	568,382	579,670	589,271	611,543	636,829	666,595	703,460	724,313	751,195	768,291
Physical and biological sciences and mathematics and statistics	93,987	90,206	90,502	93,126	74,836	97,867	104,266	111,178	114,980	118,718	125,809	131,897	141,354	148,944	155,046	181,792	187,463
Computer sciences	36,195	41,954	47,299	57,791	59,488	54,111	47,480	42,170	38,476	37,994	39,589	43,072	47,384	51,031	55,425	64,836	69,435
Agricultural sciences	33,650	33,918	34,972	14,688	16,560	16,956	16,736	16,750	17,444	17,756	17,784	18,502	19,065	20,120	21,253	20,461	20,846
Social and behavioral sciences	258,225	260,685	273,520	285,215	282,902	293,991	301,357	306,472	315,079	320,019	329,552	340,366	350,487	357,036	360,491	361,183	359,261
Engineering	81,410	81,114	83,240	85,972	87,126	89,044	91,180	91,812	93,691	94,784	98,809	102,992	108,305	126,329	132,098	122,923	131,286

* = nil or negligible; 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. Japan data include computer sciences under 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 report. 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)

Organisation for Economic Co-operation and Development (OECD), OECD.Stat; Eurostat, Education and training database; Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education (various years); National Bureau of Statistics of China, *China Statistical Yearbook* (various years); Ministry of Education, *Educational Statistics of the Republic of China (Taiwan)* (various years).

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Argentina																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	937	1,518	1,674	2,088	2,088	2,406	NA
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	709	1,122	1,203	1,726	1,726	1,716	NA
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372	590	709	934	934	904	NA
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68	83	19	NA	NA	28	NA
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60	106	82	87	87	99	NA
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	141	221	305	551	551	527	NA
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68	122	88	154	154	158	NA
Australia																	
All fields	3,687	3,802	3,910	4,315	4,763	4,886	5,276	5,559	5,749	5,808	5,825	6,079	NA	8,101	8,400	8,627	9,089
All S&E	2,086	2,122	2,185	2,328	2,611	2,642	2,866	3,090	3,364	3,226	3,189	3,434	NA	4,576	4,865	5,011	5,285
Physical and biological sciences and mathematics and statistics	992	922	1,014	1,006	1,131	1,129	1,134	1,228	1,302	1,295	1,301	1,306	NA	1,621	1,668	1,900	1,988
Computer sciences	98	107	98	99	94	112	158	171	228	218	197	229	NA	315	311	327	346
Agricultural sciences	211	198	186	197	228	193	212	221	251	219	230	280	NA	306	300	353	406
Social and behavioral sciences	309	377	430	486	572	572	635	709	737	704	682	762	NA	998	1,088	1,040	1,043
Engineering	476	518	457	540	586	636	727	761	846	790	779	857	NA	1,336	1,498	1,391	1,502
Austria																	
All fields	1,790	1,871	2,125	2,197	2,443	2,228	2,158	2,085	2,205	2,284	2,500	2,359	2,412	2,228	2,207	2,189	2,239
All S&E	986	1,059	1,149	1,107	1,188	1,222	1,209	1,178	1,248	1,321	1,384	1,369	1,414	1,330	1,305	1,243	1,316
Physical and biological sciences and mathematics and statistics	359	384	431	377	373	418	415	370	397	461	463	454	440	493	416	431	440
Computer sciences	53	21	67	63	71	74	61	59	93	99	129	96	139	111	114	113	113
Agricultural sciences	85	92	135	135	97	101	80	103	115	103	96	93	80	71	56	67	70
Social and behavioral sciences	149	162	171	210	250	224	220	212	206	230	235	262	271	223	209	166	158
Engineering	340	400	345	322	397	405	433	434	437	428	461	464	484	433	512	467	537
Belgium																	
All fields	1,147	1,317	1,413	1,432	1,479	1,601	1,718	1,716	1,880	1,902	2,126	2,165	2,368	2,464	2,581	2,800	2,890
All S&E	807	891	907	914	944	1,021	1,091	1,042	1,179	947	1,281	1,313	1,431	1,546	1,575	1,677	1,662
Physical and biological sciences and mathematics and statistics	479	519	468	564	592	509	493	439	651	312	422	438	464	455	504	804	590
Computer sciences	*	2	80	62	66	65	66	112	82	11	54	58	55	67	64	2	16
Agricultural sciences	66	77	76	85	75	71	89	84	109	109	111	105	115	133	135	73	86
Social and behavioral sciences	109	124	120	119	122	126	157	130	153	118	193	205	238	264	266	273	303
Engineering	153	169	163	84	89	250	286	277	184	397	501	507	559	627	606	525	667
Brazil																	
All fields	NA	NA	NA	NA	35,742	36,042	NA	9,919	10,711	11,256	11,314	12,321	13,912	NA	16,745	18,625	20,605
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,124	9,414	10,469
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,798	2,899	3,143

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	224	289	332
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,941	2,116	2,389
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,302	1,396	1,544
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,859	2,714	3,061
Bulgaria																	
All fields	NA	NA	NA	NA	NA	528	NA	NA	NA	NA	596	NA	NA	1,202	1,363	1,442	1,464
All S&E	NA	NA	NA	NA	NA	237	NA	NA	NA	NA	313	NA	NA	561	692	710	634
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	89	NA	NA	NA	NA	84	NA	NA	140	174	191	176
Computer sciences	NA	NA	NA	NA	NA	*	NA	NA	NA	NA	7	NA	NA	25	33	36	18
Agricultural sciences	NA	NA	NA	NA	NA	36	NA	NA	NA	NA	20	NA	NA	37	47	61	43
Social and behavioral sciences	NA	NA	NA	NA	NA	22	NA	NA	NA	NA	66	NA	NA	135	177	167	162
Engineering	NA	NA	NA	NA	NA	90	NA	NA	NA	NA	136	NA	NA	224	261	255	235
Canada																	
All fields	3,978	NA	NA	NA	3,709	4,116	4,200	4,608	4,827	5,440	5,416	5,673	5,906	7,059	7,190	7,546	7,768
All S&E	2,281	NA	NA	NA	2,198	2,433	2,427	3,105	3,444	3,879	3,884	4,060	4,307	5,187	5,075	5,325	5,556
Physical and biological sciences and mathematics and statistics	830	NA	NA	NA	854	945	873	1,347	1,554	1,746	1,746	1,756	1,925	2,299	1,947	2,043	2,083
Computer sciences	72	NA	NA	NA	50	96	117	147	150	180	182	227	238	283	259	272	251
Agricultural sciences	138	NA	NA	NA	145	153	138	120	129	135	135	164	157	188	203	213	248
Social and behavioral sciences	662	NA	NA	NA	662	612	663	744	720	783	785	818	855	1,027	1,215	1,276	1,341
Engineering	579	NA	NA	NA	487	627	636	747	891	1,035	1,036	1,095	1,132	1,391	1,451	1,522	1,632
Chile																	
All fields	NA	NA	NA	NA	188	85	290	217	307	368	423	461	538	593	606	670	699
All S&E	NA	NA	NA	NA	158	59	249	166	234	275	327	335	387	436	408	469	495
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	149	49	148	122	147	183	223	198	231	215	205	254	278
Computer sciences	NA	NA	NA	NA	*	*	1	1	6	2	2	6	4	22	9	11	13
Agricultural sciences	NA	NA	NA	NA	3	*	9	9	38	29	29	34	44	50	46	53	58
Social and behavioral sciences	NA	NA	NA	NA	3	1	36	10	13	21	21	29	30	32	53	48	50
Engineering	NA	NA	NA	NA	3	9	55	24	30	40	52	68	78	117	96	103	96
China ^a																	
All fields	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	53,778	NA
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	34,440	NA
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	10,978	NA
Computer sciences	NA	NA	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	2,549	NA
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	2,184	NA
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	18,729	NA

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Colombia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	258	323	408	466	600
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	175	214	262	300	395
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	79	90	106	139
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	NA	9	15	17
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21	17	34	33	40
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	44	41	59	63
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	74	88	87	136
Costa Rica																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	103	82	106	140
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	11	14	23
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	6	9	10
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	*	2
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	1	*	2
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	4	5	9
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	*	*	*
Croatia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	830	855	878	646
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	430	551	491	302
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108	136	166	84
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	29	11	23
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	59	46	64	35
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	104	186	105	68
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	135	154	145	92
Cyprus																	
All fields	NA	NA	NA	NA	NA	5	NA	NA	NA	NA	30	NA	NA	52	60	77	90
All S&E	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	17	NA	NA	35	37	47	60
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	6	NA	NA	13	14	14	24
Computer sciences	NA	NA	NA	NA	NA	1	NA	NA	NA	NA	6	NA	NA	4	4	2	4
Agricultural sciences	NA	NA	NA	NA	NA	*	NA	NA	NA	NA	*	NA	NA	1	*	3	*
Social and behavioral sciences	NA	NA	NA	NA	NA	1	NA	NA	NA	NA	2	NA	NA	4	6	10	15
Engineering	NA	NA	NA	NA	NA	*	NA	NA	NA	NA	3	NA	NA	13	13	18	17
Czechia																	
All fields	895	1,066	1,327	1,546	1,732	1,908	2,023	2,272	2,382	2,391	2,228	2,462	2,683	2,433	2,484	2,440	2,379
All S&E	618	723	875	1,052	1,085	1,199	1,263	1,366	1,546	1,502	1,373	1,511	1,633	1,515	1,551	1,452	1,408
Physical and biological sciences and mathematics and statistics	216	228	305	372	360	423	433	428	580	573	586	623	621	585	613	543	529

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Computer sciences	110	121	138	29	50	59	50	62	69	80	75	81	97	101	79	76	86
Agricultural sciences	57	67	100	109	112	132	136	170	133	113	131	165	183	150	150	117	119
Social and behavioral sciences	51	100	104	129	95	83	126	130	174	151	132	188	187	166	153	145	158
Engineering	184	207	228	413	468	502	518	576	590	585	449	454	545	513	556	571	516
Denmark																	
All fields	913	900	732	859	788	955	910	973	1,102	1,163	1,388	1,503	1,552	1,888	2,126	2,176	2,198
All S&E	255	274	394	602	620	583	572	570	653	696	802	944	968	1,224	1,289	1,354	1,385
Physical and biological sciences and mathematics and statistics	NA	NA	177	131	100	210	166	150	205	211	261	258	276	335	373	397	379
Computer sciences	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Agricultural sciences	69	87	83	84	89	78	67	84	93	95	74	128	136	210	230	211	167
Social and behavioral sciences	NA	NA	63	51	55	96	108	95	114	133	134	179	170	197	213	228	282
Engineering	186	187	71	336	376	199	231	241	241	257	333	379	386	482	473	518	557
Estonia																	
All fields	NA	NA	NA	NA	NA	131	143	153	161	160	175	250	190	233	213	208	239
All S&E	NA	NA	NA	NA	NA	78	83	86	107	99	110	161	140	153	151	143	165
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	33	42	49	47	48	56	74	62	68	71	64	72
Computer sciences	NA	NA	NA	NA	NA	5	5	6	8	7	12	17	14	13	9	16	16
Agricultural sciences	NA	NA	NA	NA	NA	7	5	5	6	6	6	6	9	8	12	7	11
Social and behavioral sciences	NA	NA	NA	NA	NA	8	14	8	12	12	11	36	22	23	23	18	21
Engineering	NA	NA	NA	NA	NA	25	17	18	34	26	25	28	33	41	36	38	45
Finland																	
All fields	1,891	1,797	1,797	1,751	1,863	1,957	1,898	1,986	1,951	1,949	1,750	1,856	1,834	1,899	2,013	2,000	2,009
All S&E	1,007	939	944	949	989	1,069	1,094	1,158	1,089	1,048	955	1,013	980	1,104	1,145	1,170	1,164
Physical and biological sciences and mathematics and statistics	315	300	281	294	341	344	350	410	359	316	276	295	276	315	339	355	364
Computer sciences	31	45	41	51	38	66	66	70	55	52	50	67	48	155	166	152	156
Agricultural sciences	44	51	41	40	48	44	51	42	58	44	38	58	47	55	62	77	73
Social and behavioral sciences	243	222	221	204	198	229	210	231	237	235	217	234	220	222	222	206	220
Engineering	374	321	360	360	364	386	417	405	380	401	374	359	389	357	356	380	351
France																	
All fields	9,903	10,404	10,404	8,420	8,420	9,578	9,818	10,650	11,309	11,941	NA	NA	NA	13,890	13,365	13,774	13,016
All S&E	6,640	6,957	6,957	5,639	5,639	6,549	6,854	7,402	7,835	8,356	NA	NA	NA	10,211	10,023	10,020	9,564
Physical and biological sciences and mathematics and statistics	4,281	4,494	4,494	3,638	3,638	3,984	4,247	4,521	4,765	4,988	NA	NA	NA	5,909	5,731	5,848	5,788
Computer sciences	478	495	494	404	404	449	542	610	605	642	NA	NA	NA	710	736	778	630
Agricultural sciences	22	23	23	18	18	35	26	13	18	13	NA	NA	NA	*	*	*	*
Social and behavioral sciences	939	988	989	800	800	1,140	1,016	1,086	1,173	1,334	NA	NA	NA	1,737	1,684	1,493	1,389
Engineering	920	956	957	779	779	941	1,023	1,172	1,274	1,379	NA	NA	NA	1,855	1,872	1,901	1,757

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Germany																	
All fields	25,780	24,796	23,838	23,043	23,138	25,952	24,946	24,439	25,604	25,527	26,039	27,354	27,099	27,707	28,147	29,218	29,303
All S&E	11,888	11,271	10,618	10,340	10,107	11,590	10,871	11,084	11,887	11,691	12,576	13,281	13,666	14,936	14,912	15,957	15,871
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	8,276	8,140	8,476	8,382
Computer sciences	441	470	417	387	489	520	566	593	699	738	838	906	886	941	994	1,103	1,021
Agricultural sciences	917	883	878	895	929	1,106	934	923	878	856	880	902	925	803	834	899	898
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	1,769	1,730	1,736	1,860
Engineering	2,442	2,333	2,371	2,213	2,107	2,345	2,187	2,237	2,541	2,294	2,514	2,784	2,812	3,147	3,214	3,743	3,710
Greece																	
All fields	NA	NA	NA	NA	1,295	1,248	NA	2,436	1,406	NA	1,892	1,685	1,734	1,527	1,601	1,794	2,003
All S&E	NA	NA	NA	NA	920	918	NA	667	705	NA	1,070	900	745	834	868	786	894
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	595	492	NA	267	213	NA	278	244	221	221	218	223	221
Computer sciences	NA	NA	NA	NA	116	27	NA	20	74	NA	133	85	70	95	65	58	71
Agricultural sciences	NA	NA	NA	NA	39	89	NA	63	93	NA	159	80	79	88	83	51	57
Social and behavioral sciences	NA	NA	NA	NA	51	59	NA	85	86	NA	139	137	95	149	151	106	187
Engineering	NA	NA	NA	NA	119	251	832	232	239	NA	361	354	280	281	351	348	358
Hungary																	
All fields	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	1,206	1,255
All S&E	421	313	380	427	349	348	401	536	420	603	643	533	569	604	659	589	609
Physical and biological sciences and mathematics and statistics	190	137	151	198	162	149	170	208	188	260	345	254	257	249	236	240	233
Computer sciences	4	5	14	10	9	8	11	38	39	25	51	31	36	52	66	55	44
Agricultural sciences	41	55	61	100	66	66	76	97	73	91	84	83	97	57	67	32	67
Social and behavioral sciences	83	66	70	82	76	79	92	100	90	97	63	93	80	150	162	136	161
Engineering	103	50	84	37	36	46	52	93	30	130	100	72	99	96	128	126	104
Iceland																	
All fields	2	3	5	6	10	14	15	10	23	32	36	NA	40	55	88	67	72
All S&E	*	1	1	1	5	2	8	4	12	15	26	NA	19	29	NA	36	33
Physical and biological sciences and mathematics and statistics	*	*	1	1	4	1	5	3	6	8	17	NA	12	19	NA	25	19
Computer sciences	*	*	*	*	*	*	*	*	*	*	2	NA	2	2	NA	1	1
Agricultural sciences	*	*	*	*	*	*	*	*	*	*	1	NA	*	*	NA	*	1
Social and behavioral sciences	*	1	*	*	1	*	1	1	1	4	*	NA	2	5	NA	3	3
Engineering	*	*	*	*	*	1	2	*	5	3	6	NA	3	3	NA	7	9
India																	
All fields	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	22,528	25,095
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	13,845	15,967
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	5,987	7,030

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	291	NA	321	333	507
Agricultural sciences	933	999	948	1,195	1,142	1,020	1,299	NA	NA	NA	NA	1,804	3,203	NA	1,545	1,889	2,375
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,215	4,597	NA	2,960	2,949	3,190
Engineering	723	778	734	779	882	968	1,058	NA	NA	NA	NA	2,081	2,186	NA	2,597	2,687	2,865
Indonesia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,260	3,911	4,104	NA	3,591	5,363	3,838
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	930	1,309	NA
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170	95	NA
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46	25	NA
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	410	357	NA
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	676	NA
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	304	156	NA
Ireland																	
All fields	501	572	520	668	683	810	979	1,035	1,090	1,211	1,222	1,447	1,447	1,532	1,738	1,749	1,429
All S&E	328	416	354	441	423	483	178	174	175	766	699	791	842	849	833	1,069	856
Physical and biological sciences and mathematics and statistics	221	274	229	290	237	250	NA	NA	NA	381	323	369	384	385	423	502	369
Computer sciences	12	19	15	14	28	53	NA	NA	NA	86	71	83	128	76	106	85	86
Agricultural sciences	17	19	12	19	21	23	23	23	30	23	37	15	15	40	20	32	23
Social and behavioral sciences	29	41	26	41	29	54	NA	NA	NA	93	86	120	111	130	127	222	180
Engineering	49	63	72	77	108	103	155	151	145	183	182	204	204	218	157	228	198
Israel																	
All fields	688	859	863	999	1,135	1,206	1,210	1,288	1,427	1,373	1,534	1,530	1,586	1,541	1,546	1,617	1,570
All S&E	497	598	599	688	715	764	743	796	918	865	980	1,025	1,027	1,040	1,113	1,203	1,151
Physical and biological sciences and mathematics and statistics	329	409	391	477	483	486	465	475	512	484	558	600	597	617	707	739	680
Computer sciences	NA	NA	NA	NA	NA	NA	NA	57	69	72	75	57	57	57	63	74	62
Agricultural sciences	23	33	44	20	31	33	37	38	25	26	32	41	36	36	25	40	23
Social and behavioral sciences	68	96	109	111	114	159	143	133	177	151	187	177	190	190	183	203	210
Engineering	77	60	55	80	87	86	98	93	135	132	128	150	147	140	135	147	176
Italy																	
All fields	3,557	4,044	3,977	4,456	6,351	8,466	9,604	10,188	NA	NA	NA	11,270	11,458	10,687	10,678	10,485	9,803
All S&E	1,777	2,100	1,958	2,760	3,942	5,075	5,758	6,107	NA	NA	NA	6,409	6,294	6,131	6,185	5,976	5,656
Physical and biological sciences and mathematics and statistics	759	821	818	1,274	1,867	2,271	2,430	2,531	NA	NA	NA	2,531	2,569	2,502	2,571	2,569	2,346
Computer sciences	*	*	*	33	64	66	105	149	NA	NA	NA	140	124	135	134	664	477
Agricultural sciences	209	350	342	306	384	496	566	669	NA	NA	NA	684	688	650	619	622	499
Social and behavioral sciences	92	121	60	294	450	703	830	799	NA	NA	NA	971	877	810	808	523	538
Engineering	717	808	738	853	1,177	1,539	1,827	1,959	NA	NA	NA	2,083	2,036	2,034	2,053	1,598	1,796

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Japan ^b																	
All fields	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	15,714	15,804
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	7,540	7,391
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	2,359	2,316
Computer sciences	NA	NA	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	911	881
Social and behavioral sciences	563	610	656	751	808	943	973	1,025	1,060	988	1,010	1,019	1,011	850	887	776	754
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	3,494	3,440
Latvia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	267	315	264	255	197
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	149	173	164	146	116
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	51	34	54	45
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	17	12	9	8
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	10	9	1	6
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	30	37	28	23
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	51	65	72	54	34
Lithuania																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	441	411	417	324
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	281	262	246	187
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	84	92	62
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	11	8	6
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21	23	16	18
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62	47	45	44
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	121	97	85	57
Luxembourg																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	57	64	82	107	107
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41	45	55	74	78
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	12	17	24	26
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	13	16	28	19
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	15	19
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	9	8	7	14
Malta																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	22	30	37
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	13	15	19
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	4	6	10

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	*	*	1
Agricultural sciences	NA	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	NA	3	*	3	2
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	9	6	6
Mexico																	
All fields	1,036	1,496	1,801	1,230	2,325	2,432	2,800	2,950	3,498	4,099	4,167	3,795	5,119	5,013	5,782	6,050	9,268
All S&E	611	849	1,106	849	1,412	1,379	1,529	1,651	1,687	1,875	2,015	1,672	2,223	2,213	2,365	2,560	2,654
Physical and biological sciences and mathematics and statistics	201	362	412	276	514	483	500	553	545	695	890	608	756	720	753	758	792
Computer sciences	37	36	15	30	37	48	26	26	48	47	26	22	30	47	65	64	65
Agricultural sciences	146	162	107	173	218	207	226	248	178	200	104	101	218	133	148	183	233
Social and behavioral sciences	140	166	424	185	382	397	527	543	576	628	588	534	617	680	617	672	848
Engineering	87	123	148	185	261	244	250	281	340	305	407	407	602	633	782	883	716
Netherlands																	
All fields	NA	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	4,663	NA
All S&E	NA	1,524	1,523	1,019	1,552	778	785	815	852	823	946	949	1,232	1,730	1,790	NA	NA
Physical and biological sciences and mathematics and statistics	NA	530	489	NA	499	NA	NA	NA	NA	NA	NA	NA	NA	642	626	NA	NA
Computer sciences	NA	*	*	NA	*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	NA	229	264	219	259	221	250	266	289	222	237	230	213	280	340	NA	NA
Social and behavioral sciences	NA	375	326	347	311	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Engineering	NA	390	444	453	483	557	535	549	563	601	709	719	1,019	808	824	NA	NA
New Zealand																	
All fields	464	487	510	529	623	643	638	756	797	830	987	1,109	1,062	1,288	1,414	1,332	1,296
All S&E	NA	NA	321	326	338	351	350	415	477	495	515	633	631	819	907	851	804
Physical and biological sciences and mathematics and statistics	NA	NA	171	163	205	207	189	222	271	282	262	264	308	353	358	363	348
Computer sciences	NA	NA	13	11	22	15	20	41	44	27	45	50	51	63	70	58	52
Agricultural sciences	NA	NA	21	24	1	10	10	16	10	3	6	33	15	37	77	33	39
Social and behavioral sciences	NA	NA	72	86	67	71	80	68	72	90	108	158	126	188	172	180	180
Engineering	NA	NA	44	42	43	48	51	68	80	93	94	128	131	178	231	218	185
Norway																	
All fields	658	768	740	714	756	838	882	980	1,231	1,084	1,202	1,297	1,408	1,549	1,442	1,407	1,368
All S&E	203	227	177	276	137	501	502	563	707	159	507	129	148	850	776	734	732
Physical and biological sciences and mathematics and statistics	7	11	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	454	393	389	376
Computer sciences	NA	NA	NA	NA	NA	247	242	392	488	NA	432	NA	NA	39	28	23	26
Agricultural sciences	44	65	74	64	54	67	44	41	46	32	14	22	20	21	33	21	16
Social and behavioral sciences	77	72	76	85	77	63	119	85	128	117	55	100	119	174	166	176	168
Engineering	75	79	25	127	6	124	97	45	45	10	6	7	9	162	156	125	146

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Poland																	
All fields	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	3,787	3,764
All S&E	NA	1,089	1,138	1,488	1,432	1,468	1,536	1,502	1,365	1,155	NA	NA	NA	NA	1,811	2,051	2,017
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	734	850	808
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	82	59
Agricultural sciences	NA	410	412	560	524	541	581	457	397	293	NA	NA	NA	NA	227	182	183
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	279	361	382
Engineering	NA	679	726	928	908	927	955	1,045	968	862	NA	NA	NA	NA	561	576	585
Portugal																	
All fields	1,586	NA	NA	3,723	3,963	4,150	5,342	6,038	4,863	4,376	2,927	2,314	2,909	4,155	4,008	2,351	2,344
All S&E	906	NA	NA	1,875	2,316	2,542	3,160	3,344	3,216	1,981	1,289	1,297	1,742	2,473	2,305	1,294	1,329
Physical and biological sciences and mathematics and statistics	284	NA	NA	570	822	919	1,192	1,305	1,093	561	404	415	658	820	717	357	430
Computer sciences	51	NA	NA	75	211	239	321	283	342	87	45	34	69	111	157	88	72
Agricultural sciences	38	NA	NA	79	68	71	102	86	85	46	45	36	31	49	50	43	42
Social and behavioral sciences	244	NA	NA	629	636	703	824	961	859	695	396	313	403	593	535	315	286
Engineering	289	NA	NA	522	579	610	721	709	837	592	399	499	581	900	846	491	499
Romania																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,370	3,777	3,992	2,260
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,756	1,982	2,038	1,070
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	517	350	340	237
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	*	103	53
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	390	231	328	134
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	431	337	361	229
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,418	1,064	906	417
Russia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	34,886	11,205	9,948	10,017	36,533	44,128	29,632	27,212
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19,340	24,522	18,502	14,376
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,055	5,762	4,590	3,781
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,015	2,504	2,033	1,860
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,223	2,971	1,064	1,045
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,371	6,989	5,267	2,468
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,676	6,296	5,548	5,222
Saudi Arabia																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	391	557	400	NA	NA	247
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	95	112	21	68	68	65
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	52	58	NA	33	33	32

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	1	NA	NA	NA	8
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	1	4	18	18	3
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	38	NA	12	12	13
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	14	17	5	5	9
Slovakia																	
All fields	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	1,914	1,771
All S&E	221	307	384	630	438	533	546	678	762	880	1,374	796	1,099	1,152	1,148	1,005	911
Physical and biological sciences and mathematics and statistics	70	110	130	318	167	196	194	247	208	261	408	192	257	350	372	318	302
Computer sciences	7	1	6	10	10	14	18	22	26	32	61	45	32	57	55	56	57
Agricultural sciences	37	39	52	56	42	50	47	76	74	83	131	70	81	67	86	47	70
Social and behavioral sciences	14	31	33	101	64	67	67	81	112	113	210	97	179	177	211	192	165
Engineering	93	126	163	145	155	206	220	252	342	391	564	392	550	501	424	392	317
Slovenia																	
All fields	NA	NA	NA	NA	NA	369	395	415	405	466	465	523	569	1,166	1,003	1,000	3,763
All S&E	NA	NA	NA	NA	NA	231	232	258	269	284	301	290	412	742	662	625	1,602
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	74	78	99	108	113	139	83	112	221	203	168	258
Computer sciences	NA	NA	NA	NA	NA	18	12	19	5	15	16	23	42	44	36	44	188
Agricultural sciences	NA	NA	NA	NA	NA	11	14	17	23	14	17	22	56	110	110	117	117
Social and behavioral sciences	NA	NA	NA	NA	NA	41	46	50	47	43	36	54	103	141	133	108	562
Engineering	NA	NA	NA	NA	NA	87	82	73	86	99	93	108	99	226	180	188	477
South Africa																	
All fields	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,381	1,422	1,586	1,845	2,270	2,536	NA
All S&E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	714	784	886	242	1,175	1,313	NA
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	331	409	444	NA	572	616	NA
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	30	42	NA	55	51	NA
Agricultural sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	71	93	90	79	121	NA
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	178	163	174	NA	293	304	NA
Engineering	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	105	111	133	152	176	221	NA
South Korea																	
All fields	6,143	6,208	6,690	7,172	7,946	8,449	8,657	9,082	9,369	9,912	10,542	11,645	12,243	12,625	12,931	13,077	13,882
All S&E	2,914	3,013	3,294	3,280	3,629	3,772	3,943	3,796	3,867	3,994	4,362	5,340	5,611	5,877	5,972	6,104	6,557
Physical and biological sciences and mathematics and statistics	692	687	692	841	932	854	928	835	889	992	1,011	1,372	1,488	1,699	1,823	1,751	1,861
Computer sciences	169	176	156	92	88	31	62	37	65	49	84	98	141	169	155	150	154
Agricultural sciences	276	292	317	219	246	284	299	277	279	274	303	308	317	269	252	271	286
Social and behavioral sciences	123	220	230	260	323	330	387	398	392	377	458	488	527	601	606	668	737
Engineering	1,654	1,638	1,899	1,868	2,040	2,273	2,267	2,249	2,242	2,302	2,506	3,074	3,138	3,139	3,136	3,264	3,519

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Spain																	
All fields	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	11,316	14,694
All S&E	2,937	3,124	3,394	3,741	3,965	3,553	3,684	3,825	3,852	4,167	4,931	5,576	5,812	6,474	6,708	7,174	8,373
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	3,400	4,267	4,706
Computer sciences	132	143	194	202	217	167	174	190	192	245	305	507	422	439	520	726	775
Agricultural sciences	255	213	253	325	322	273	253	233	275	249	292	218	298	297	235	193	248
Social and behavioral sciences	513	531	597	740	791	690	697	765	722	738	938	1,032	1,237	1,439	1,367	1,132	1,503
Engineering	408	538	475	545	603	628	531	653	682	778	1,296	608	802	925	1,186	856	1,141
Sweden																	
All fields	3,049	3,388	3,517	3,558	3,834	2,778	3,781	3,904	3,625	3,564	3,371	3,356	3,343	3,345	3,584	3,647	3,533
All S&E	1,879	1,994	2,120	2,192	2,408	1,483	2,351	2,300	2,171	2,029	1,953	1,971	1,974	2,055	2,149	2,211	2,188
Physical and biological sciences and mathematics and statistics	625	695	725	759	822	521	709	776	704	701	673	678	726	670	695	763	745
Computer sciences	64	51	75	111	122	61	146	146	138	130	106	139	141	125	184	175	177
Agricultural sciences	96	93	106	71	72	64	79	84	63	65	59	60	58	68	55	51	81
Social and behavioral sciences	253	244	287	294	296	211	278	282	304	254	272	272	220	246	260	266	258
Engineering	841	911	927	957	1,096	626	1,139	1,012	962	879	843	822	829	946	955	956	927
Switzerland																	
All fields	2,733	2,745	2,800	2,742	2,952	3,303	3,381	3,428	3,426	3,641	3,800	3,484	3,638	3,631	3,847	3,854	3,935
All S&E	1,299	1,310	1,384	1,276	1,423	1,659	1,831	1,836	1,759	1,890	1,908	1,918	1,984	2,095	2,352	2,325	2,441
Physical and biological sciences and mathematics and statistics	804	743	770	698	743	897	1,004	984	912	950	922	951	967	987	1,051	1,191	1,253
Computer sciences	47	52	54	53	48	82	79	81	65	77	103	96	137	81	116	122	120
Agricultural sciences	114	118	135	127	159	151	164	139	153	147	170	120	118	106	105	98	122
Social and behavioral sciences	74	75	103	121	154	189	208	215	234	252	275	306	270	294	317	330	319
Engineering	260	322	322	277	319	340	376	417	395	464	438	445	492	627	763	584	627
Taiwan																	
All fields	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	4,000	3,623
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	2,430	2,128
Physical and biological sciences and mathematics and statistics	233	232	255	298	318	398	455	413	469	522	567	568	596	684	619	597	556
Computer sciences	16	19	18	31	24	38	46	45	52	62	74	76	74	79	57	59	51
Agricultural sciences	87	90	93	93	116	83	92	72	77	104	95	79	94	98	99	106	89
Social and behavioral sciences	108	108	72	89	111	108	111	157	165	172	165	148	171	180	196	207	188
Engineering	526	521	528	656	722	758	939	1,219	1,242	1,435	1,608	1,601	1,543	1,637	1,516	1,461	1,244
Turkey																	
All fields	2,124	1,985	2,472	2,815	2,680	2,838	2,594	3,357	3,754	4,253	4,684	4,653	4,506	8,734	4,516	5,192	6,052
All S&E	1,209	1,063	1,319	1,495	1,434	1,585	1,317	1,663	1,893	2,260	2,521	2,465	2,257	2,392	2,188	2,532	3,004
Physical and biological sciences and mathematics and statistics	285	307	381	411	348	441	372	465	526	692	778	969	953	1,088	844	961	1,207

TABLE S2-16

S&E doctoral degrees by selected region, country, or economy and field: 2000–16

(Number)

Region, country, or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Computer sciences	19	13	8	14	20	12	25	35	50	47	74	74	69	69	5	6	34
Agricultural sciences	332	241	276	384	323	274	257	285	316	350	382	282	249	249	212	220	210
Social and behavioral sciences	241	182	310	305	325	426	293	372	451	493	594	366	358	358	388	411	465
Engineering	332	320	344	381	418	432	370	506	550	678	693	774	628	628	739	934	1,088
United Kingdom																	
All fields	11,568	14,147	14,232	14,935	15,257	15,778	16,466	17,545	16,606	17,651	18,756	20,076	20,438	25,896	25,020	26,636	27,366
All S&E	7,481	8,878	8,722	8,971	9,267	9,579	9,916	10,524	9,674	10,425	11,312	11,842	12,096	14,732	14,271	15,338	15,757
Physical and biological sciences and mathematics and statistics	3,953	4,813	4,827	4,875	4,375	4,449	4,425	4,609	4,203	4,390	4,696	4,965	4,874	7,454	7,198	7,634	7,763
Computer sciences	312	389	376	377	468	545	711	720	706	797	843	871	902	1,038	925	1,023	1,136
Agricultural sciences	349	341	339	301	318	310	308	252	194	224	215	218	232	305	288	313	334
Social and behavioral sciences	1,021	1,144	1,159	1,179	1,887	2,022	2,075	2,301	2,212	2,395	2,787	2,954	3,091	2,349	2,339	2,599	2,559
Engineering	1,847	2,190	2,021	2,239	2,218	2,252	2,397	2,642	2,358	2,618	2,770	2,834	2,997	3,586	3,521	3,768	3,965
United States																	
All fields	44,808	44,904	44,160	45,994	48,378	52,631	56,067	60,616	63,712	67,716	69,570	73,041	76,288	65,051	67,449	68,923	69,525
All S&E	26,086	26,060	24,992	26,011	22,797	28,515	30,289	32,394	33,423	33,953	34,572	35,982	37,261	37,813	39,524	39,933	39,710
Physical and biological sciences and mathematics and statistics	9,991	9,600	9,250	9,927	6,302	10,868	11,557	12,551	13,082	13,540	14,321	14,574	14,974	15,419	16,026	16,344	16,466
Computer sciences	777	768	750	834	909	1,119	1,416	1,595	1,698	1,580	1,599	1,588	1,698	1,819	1,940	1,963	1,951
Agricultural sciences	969	945	928	917	967	943	927	992	952	1,029	891	951	993	1,049	1,015	1,052	1,003
Social and behavioral sciences	8,830	9,017	8,671	8,845	8,465	8,805	8,717	8,955	9,325	9,602	9,780	10,239	10,485	9,449	9,797	9,949	9,708
Engineering	5,519	5,730	5,393	5,488	6,154	6,780	7,672	8,301	8,366	8,202	7,981	8,630	9,111	10,077	10,746	10,625	10,582

* = nil or negligible; 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. Japan data include computer sciences under 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 report. Data for doctoral degrees use ISCED 2011 level 8. S&E data do not include health fields.

Source(s)

Organisation for Economic Co-operation and Development (OECD), OECD.Stat; Eurostat, Education and training database; Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education (various years); National Bureau of Statistics of China, *China Statistical Yearbook* (various years); Ministry of Education, *Educational Statistics of the Republic of China (Taiwan)* (various years); Government of India, Ministry of Human Resource Development, Department of Higher Education, All India Survey on Higher Education (various years).