



NATIONAL SCIENCE BOARD SCIENCE & ENGINEERING INDICATORS 2022



Higher Education

Higher Education in Science and Engineering

Supplemental Tables

NSB-2022-3

February 22, 2022

This publication is part of the *Science and Engineering Indicators* suite of reports. *Indicators* is a congressionally mandated report on the state of the U.S. science and engineering enterprise. It is policy relevant and policy neutral. *Indicators* is prepared under the guidance of the National Science Board by the National Center for Science and Engineering Statistics, a federal statistical agency within the National Science Foundation. With the 2020 edition, *Indicators* is changing from a single report to a set of disaggregated and streamlined reports published on a rolling basis. Detailed data tables will continue to be available online.

Supplemental Tables

Table	Title
SHED-1	S&E degrees awarded, by degree level, Carnegie institution type, and field: 2019
SHED-2	U.S. citizen and permanent resident doctorate recipients who earned an associate's degree, by sex, race, ethnicity, and broad doctoral field: 2020
SHED-3	Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19
SHED-4	Certificates awarded for selected levels, by institutional Carnegie Classification and field: 2019
SHED-5	Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19
SHED-6	Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19
SHED-7	Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19
SHED-8	Associate's degrees in S&E technologies awarded to U.S. citizens and permanent residents, by sex, race, ethnicity, and field: 2019
SHED-9	International undergraduate student enrollment in U.S. universities, by field and selected regions, countries, or economies of origin: 2019–20
SHED-10	International graduate student enrollment in U.S. universities, by field and selected regions, countries, or economies of origin: 2019–20
SHED-11	S&E first university degrees, by selected region, country, or economy and field: 2010–18
SHED-12	S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

Table SHED-1

S&E degrees awarded, by degree level, Carnegie institution type, and field: 2019

(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	1,045,129	104,435	2,948	7,445	31,939	156	4,631	6,943	14,481	29,400	6,492
Doctoral universities: very high research activity	2,629	69	59	0	7	0	0	0	0	3	0
Doctoral universities: high research activity	6,065	280	62	0	151	0	1	1	0	63	2
Doctoral/ professional universities	16,509	1,435	0	9	1,041	0	0	0	185	196	4
Master's colleges and universities	53,025	3,247	25	156	2,135	0	56	102	236	460	77
Baccalaureate colleges	70,838	3,444	234	80	2,093	1	6	335	53	510	132
Associate's colleges	841,275	94,200	2,442	7,126	25,931	146	4,564	6,465	13,982	27,318	6,226
Medical schools and medical centers	204	0	0	0	0	0	0	0	0	0	0
Schools of engineering	4	1	0	0	0	0	0	0	0	0	1
Other specialized institutions	49,011	1,391	77	64	504	0	0	40	1	678	27
Tribal colleges	1,659	305	49	10	38	9	4	0	9	168	18
Not classified	3,910	63	0	0	39	0	0	0	15	4	5
Bachelor's	2,034,071	724,947	33,472	127,415	89,421	6,997	28,252	23,562	117,638	169,005	129,185
Doctoral universities: very high research activity	642,930	320,495	16,105	56,252	33,533	3,351	14,454	9,843	35,595	75,541	75,821
Doctoral universities: high research activity	312,681	111,737	4,747	19,661	12,502	1,056	3,631	3,378	17,829	22,632	26,301
Doctoral/ professional universities	189,804	45,589	1,718	8,095	6,705	265	1,367	1,418	10,696	11,192	4,133
Master's colleges and universities	636,782	177,222	7,641	28,760	27,031	1,701	6,074	5,630	41,990	40,682	17,713
Baccalaureate colleges	175,661	64,048	3,149	14,041	6,775	601	2,695	3,263	10,893	18,707	3,924
Associate's colleges	6,037	844	72	14	749	0	0	0	0	0	9
Medical schools and medical centers	6,245	10	0	9	0	1	0	0	0	0	0
Schools of engineering	1,505	1,431	0	25	130	20	26	17	0	0	1,213
Other specialized institutions	60,371	3,234	3	537	1,964	0	5	12	528	128	57
Tribal colleges	368	121	34	4	5	2	0	0	17	57	2
Not classified	1,687	216	3	17	27	0	0	1	90	66	12
Master's	839,563	209,566	6,754	18,054	45,754	2,093	13,639	4,806	26,388	39,003	53,075

Table SHED-1

S&E degrees awarded, by degree level, Carnegie institution type, and field: 2019

(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: very high research activity	289,555	109,492	4,346	9,707	22,307	1,354	8,950	3,143	3,161	19,830	36,694
Doctoral universities: high research activity	119,221	33,607	1,051	2,604	6,875	494	2,088	1,030	3,327	6,644	9,494
Doctoral/ professional universities	131,651	20,444	227	1,919	4,944	45	566	169	7,787	3,465	1,322
Master's colleges and universities	232,367	38,368	1,052	1,982	10,748	193	1,762	429	9,246	7,908	5,048
Baccalaureate colleges	12,866	1,697	75	188	281	0	17	29	266	765	76
Associate's colleges	0	0	0	0	0	0	0	0	0	0	0
Medical schools and medical centers	11,127	1,700	2	1,443	0	0	0	3	115	102	35
Schools of engineering	366	297	0	0	16	7	0	1	0	0	273
Other specialized institutions	42,236	3,874	0	138	583	0	256	2	2,481	281	133
Tribal colleges	31	9	1	0	0	0	0	0	0	8	0
Not classified	143	78	0	73	0	0	0	0	5	0	0
Doctoral	74,015	47,753	1,442	14,946	2,174	961	2,009	5,313	4,297	5,281	11,330
Doctoral universities: very high research activity	48,403	35,517	1,216	9,455	1,718	846	1,786	4,608	1,763	4,314	9,811
Doctoral universities: high research activity	10,252	5,981	193	1,723	304	109	216	651	913	514	1,358
Doctoral/ professional universities	9,976	3,413	6	1,760	107	0	3	0	1,189	307	41
Master's colleges and universities	2,069	402	23	97	20	3	0	11	107	90	51
Baccalaureate colleges	157	18	0	5	0	0	4	7	0	2	0
Medical schools and medical centers	1,892	1,823	4	1,654	5	2	0	31	35	35	57
Schools of engineering	15	15	0	0	0	1	0	2	0	0	12
Other specialized institutions	1,230	563	0	233	20	0	0	3	288	19	0
Not classified	21	21	0	19	0	0	0	0	2	0	0

Note(s):

Medical and other health sciences are included in biological sciences for doctoral degrees. Carnegie institution type corresponds to the 2018 Carnegie Classification of Institutions of Higher Education.

Source(s):

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

Science and Engineering Indicators

Table SHED-2

U.S. citizen and permanent resident doctorate recipients who earned an associate's degree, by sex, race, ethnicity, and broad doctoral field: 2020

(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	6.2	5.7	3.4	7.7	4.2	6.4	5.6	5.3	11.0	4.1	7.4	7.0	7.6
Sex													
Male	6.1	5.6	3.6	10.9	4.4	6.9	6.1	5.9	11.7	4.3	8.5	7.4	7.6
Female	6.3	5.8	2.9	5.1	4.1	5.0	5.0	3.6	10.7	3.6	7.0	6.7	7.5
Ethnicity and race													
Hispanic or Latino	9.9	9.0	3.1	14.8	9.2	s	s	s	9.2	7.0	11.5	11.7	12.1
Not Hispanic or Latino													
American Indian or Alaska Native	11.3	12.3	0.0	s	s	0.0	0.0	0.0	s	0.0	0.0	s	s
Asian	2.7	2.8	2.1	s	2.4	s	s	4.2	4.7	s	5.2	s	s
Black or African American	9.9	11.0	6.8	12.8	s	23.1	0.0	0.0	19.5	s	10.7	12.3	8.3
White	5.9	5.3	3.5	6.8	3.9	6.0	5.3	5.4	10.7	3.8	6.7	6.1	7.5
More than one race	7.0	7.2	3.9	s	4.7	s	s	s	s	8.7	9.0	9.2	6.6
Other race or race not reported	5.7	5.7	4.3	0.0	4.8	7.7	20.0	0.0	7.7	0.0	3.2	12.8	5.5
Ethnicity not reported	3.4	3.3	0.0	0.0	2.5	20.0	20.0	11.1	6.5	0.0	0.0	4.8	3.8

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

Note(s):

Hispanic or Latino may be any race; race categories exclude Hispanic origin. Data only include respondents to the associate's degree question.

Source(s):

National Center for Science and Engineering Statistics, special tabulations (2021) of the 2020 Survey of Earned Doctorates (SED).

Science and Engineering Indicators

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Both sexes									
All citizenships, races, and ethnicity									
All fields	949,963	1,026,536	1,015,211	1,012,523	1,024,187	1,017,860	1,014,574	1,020,278	1,045,129
S&E	76,021	84,785	85,798	87,976	90,589	88,832	92,650	98,513	104,435
Engineering	2,994	3,537	3,871	4,409	5,004	5,414	6,048	6,526	6,492
Aerospace	0	3	1	0	3	0	0	3	13
Chemical	31	13	22	21	50	38	42	41	47
Civil	71	93	121	110	103	126	147	127	122
Electrical	199	209	202	319	346	364	389	420	423
Industrial	69	67	64	66	99	72	68	80	70
Materials	6	1	6	11	11	12	13	9	7
Mechanical	139	177	184	213	209	307	316	333	388
Other	2,479	2,974	3,271	3,669	4,183	4,495	5,073	5,513	5,422
Science	73,027	81,248	81,927	83,567	85,585	83,418	86,602	91,987	97,943
Natural sciences	48,061	52,943	51,535	51,491	51,929	47,217	49,001	51,776	54,062
Agricultural sciences	2,138	2,526	2,392	2,484	2,678	2,673	2,781	2,969	2,948
Biological sciences	3,440	4,028	4,340	4,689	5,071	5,461	5,737	6,531	7,445
Earth, atmospheric, and ocean sciences	95	103	112	136	153	152	151	129	156
Atmospheric sciences	10	9	4	6	3	1	0	0	0
Earth sciences	50	67	70	96	112	118	149	128	152
Oceanography	35	27	38	34	38	33	2	1	4
Mathematics and computer sciences	39,320	42,719	40,699	39,783	39,118	33,541	34,633	35,569	36,570
Computer sciences	37,675	41,190	38,897	37,643	36,421	30,512	31,179	31,434	31,939
Mathematics and statistics	1,645	1,529	1,802	2,140	2,697	3,029	3,454	4,135	4,631
Physical sciences	3,068	3,567	3,992	4,399	4,909	5,390	5,699	6,578	6,943
Astronomy	1	4	4	9	5	7	12	12	16
Chemistry	459	533	626	704	828	834	908	1,095	1,197
Physics	260	318	378	516	738	910	1,006	1,377	1,541
Other physical sciences	2,348	2,712	2,984	3,170	3,338	3,639	3,773	4,094	4,189
Social and behavioral sciences	24,966	28,305	30,392	32,076	33,656	36,201	37,601	40,211	43,881
Psychology	3,866	4,713	6,118	7,529	8,736	10,602	11,282	12,488	14,481
Social sciences	21,100	23,592	24,274	24,547	24,920	25,599	26,319	27,723	29,400
Anthropology	231	339	326	384	441	659	726	822	948
Area and ethnic studies	216	189	254	341	365	385	400	537	613
Economics	357	402	484	434	575	882	1,343	1,743	2,276

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Linguistics	0	1	3	30	8	9	2	4	9
Political science and public administration	4,592	5,812	6,549	6,911	6,835	6,594	6,729	6,699	6,657
Sociology	862	1,071	1,598	2,050	2,554	3,272	3,876	4,755	5,523
Other social sciences	14,842	15,778	15,060	14,397	14,142	13,798	13,243	13,163	13,374
Non-S&E	873,942	941,751	929,413	924,547	933,598	929,028	921,924	921,765	940,694
S&E technologies	148,636	165,632	156,573	148,966	144,098	136,580	132,581	126,409	123,182
Engineering technologies	38,222	40,630	37,475	34,638	34,764	31,704	31,561	31,438	30,731
Health technologies	107,577	121,786	115,739	110,779	105,513	100,796	96,480	90,269	87,707
Science technologies	1,981	2,230	2,357	2,465	2,592	3,033	3,447	3,476	3,542
Other S&E technologies	856	986	1,002	1,084	1,229	1,047	1,093	1,226	1,202
U.S. citizen or permanent resident									
All fields	933,331	1,009,430	998,339	995,410	1,006,203	998,456	993,636	997,194	1,020,645
S&E	74,500	83,187	84,211	86,261	88,653	86,661	90,050	95,247	100,868
Engineering	2,810	3,298	3,697	4,213	4,776	5,177	5,693	6,098	6,074
Aerospace	0	3	0	0	3	0	0	3	13
Chemical	22	12	19	18	43	34	29	27	33
Civil	65	84	110	105	102	118	138	115	112
Electrical	189	198	193	305	334	345	376	393	405
Industrial	69	67	64	66	98	71	68	79	70
Materials	6	1	6	11	11	11	13	7	6
Mechanical	127	162	175	185	185	283	279	292	333
Other	2,332	2,771	3,130	3,523	4,000	4,315	4,790	5,182	5,102
Science	71,690	79,889	80,514	82,048	83,877	81,484	84,357	89,149	94,794
Natural sciences	47,075	51,973	50,566	50,410	50,726	45,888	47,398	49,775	51,766
Agricultural sciences	2,128	2,514	2,376	2,462	2,586	2,645	2,761	2,943	2,930
Biological sciences	3,348	3,935	4,226	4,577	4,979	5,346	5,594	6,361	7,175
Earth, atmospheric, and ocean sciences	93	101	109	135	152	152	145	128	156
Atmospheric sciences	9	9	4	6	3	1	0	0	0
Earth sciences	49	65	67	95	111	118	143	127	152
Oceanography	35	27	38	34	38	33	2	1	4
Mathematics and computer sciences	38,696	42,143	40,117	39,143	38,476	32,719	33,645	34,240	35,086
Computer sciences	37,126	40,700	38,384	37,098	35,874	29,845	30,402	30,365	30,758
Mathematics and statistics	1,570	1,443	1,733	2,045	2,602	2,874	3,243	3,875	4,328
Physical sciences	2,810	3,280	3,738	4,093	4,533	5,026	5,253	6,103	6,419
Astronomy	1	4	4	9	4	6	12	12	16

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Chemistry	431	500	607	683	803	814	873	1,055	1,145
Physics	251	307	370	495	715	884	965	1,318	1,478
Other physical sciences	2,127	2,469	2,757	2,906	3,011	3,322	3,403	3,718	3,780
Social and behavioral sciences	24,615	27,916	29,948	31,638	33,151	35,596	36,959	39,374	43,028
Psychology	3,810	4,676	6,056	7,449	8,621	10,500	11,158	12,326	14,293
Social sciences	20,805	23,240	23,892	24,189	24,530	25,096	25,801	27,048	28,735
Anthropology	228	337	324	384	434	653	724	811	939
Area and ethnic studies	205	185	249	331	361	373	394	524	603
Economics	312	344	431	382	510	741	1,150	1,444	1,988
Linguistics	0	1	2	27	8	9	2	4	8
Political science and public administration	4,558	5,766	6,483	6,858	6,778	6,507	6,640	6,604	6,556
Sociology	850	1,055	1,580	2,037	2,536	3,252	3,855	4,727	5,485
Other social sciences	14,652	15,552	14,823	14,170	13,903	13,561	13,036	12,934	13,156
Non-S&E	858,831	926,243	914,128	909,149	917,550	911,795	903,586	901,947	919,777
S&E technologies	147,677	164,612	155,529	148,010	143,213	135,601	131,456	125,343	122,003
Engineering technologies	37,934	40,366	37,157	34,327	34,452	31,289	31,067	31,018	30,273
Health technologies	106,941	121,074	115,062	110,177	104,976	100,274	95,895	89,659	87,048
Science technologies	1,946	2,186	2,308	2,422	2,556	2,991	3,401	3,440	3,480
Other S&E technologies	856	986	1,002	1,084	1,229	1,047	1,093	1,226	1,202
Hispanic or Latino									
All fields	123,212	148,629	156,071	166,346	181,156	196,579	209,579	225,334	245,607
S&E	9,845	12,375	14,526	16,963	19,046	21,328	23,928	27,118	30,390
Engineering	409	453	579	709	815	974	1,168	1,266	1,283
Aerospace	0	0	0	0	0	0	0	0	1
Chemical	3	1	5	4	2	4	4	4	6
Civil	11	21	30	51	42	51	55	52	34
Electrical	45	36	42	65	68	78	85	79	98
Industrial	3	9	6	11	25	6	10	10	3
Materials	1	0	0	2	1	1	6	4	2
Mechanical	35	32	32	30	36	60	87	72	82
Other	311	354	464	546	641	774	921	1,045	1,057
Science	9,436	11,922	13,947	16,254	18,231	20,354	22,760	25,852	29,107
Natural sciences	4,972	6,130	6,789	7,492	8,078	7,869	8,765	10,017	10,909
Agricultural sciences	67	91	108	115	158	180	182	199	284
Biological sciences	649	947	1,072	1,258	1,463	1,619	1,832	2,198	2,541

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Earth, atmospheric, and ocean sciences	3	12	13	13	18	28	34	27	39
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	3	12	12	11	17	28	34	27	39
Oceanography	0	0	1	2	1	0	0	0	0
Mathematics and computer sciences	3,852	4,482	4,922	5,251	5,382	4,779	5,389	5,846	6,212
Computer sciences	3,511	4,084	4,450	4,574	4,601	3,771	4,258	4,428	4,693
Mathematics and statistics	341	398	472	677	781	1,008	1,131	1,418	1,519
Physical sciences	401	598	674	855	1,057	1,263	1,328	1,747	1,833
Astronomy	0	0	1	3	2	1	4	3	5
Chemistry	74	117	140	181	208	216	214	329	340
Physics	75	102	127	169	242	363	366	557	594
Other physical sciences	252	379	406	502	605	683	744	858	894
Social and behavioral sciences	4,464	5,792	7,158	8,762	10,153	12,485	13,995	15,835	18,198
Psychology	944	1,364	1,930	2,648	3,379	4,534	4,968	5,779	6,833
Social sciences	3,520	4,428	5,228	6,114	6,774	7,951	9,027	10,056	11,365
Anthropology	49	93	95	108	131	231	274	355	386
Area and ethnic studies	41	45	60	84	78	94	110	164	192
Economics	82	102	132	142	172	241	355	456	639
Linguistics	0	0	1	7	3	1	0	2	2
Political science and public administration	574	686	816	1,026	1,189	1,216	1,557	1,592	1,747
Sociology	270	390	616	947	1,267	1,768	2,245	2,837	3,320
Other social sciences	2,504	3,112	3,508	3,800	3,934	4,400	4,486	4,650	5,079
Non-S&E	113,367	136,254	141,545	149,383	162,110	175,251	185,651	198,216	215,217
S&E technologies	16,699	21,206	21,059	20,979	21,482	21,544	22,058	22,792	23,126
Engineering technologies	4,488	5,152	4,850	4,514	4,676	4,360	4,435	4,728	4,918
Health technologies	11,871	15,664	15,736	15,964	16,182	16,449	16,745	17,068	17,156
Science technologies	235	291	350	356	451	604	740	790	859
Other S&E technologies	105	99	123	145	173	131	138	206	193
Not Hispanic or Latino									
All fields	810,119	860,801	842,268	829,064	825,047	801,877	784,057	771,860	775,038
S&E	64,655	70,812	69,685	69,298	69,607	65,333	66,122	68,129	70,478
Engineering	2,401	2,845	3,118	3,504	3,961	4,203	4,525	4,832	4,791
Aerospace	0	3	0	0	3	0	0	3	12
Chemical	19	11	14	14	41	30	25	23	27
Civil	54	63	80	54	60	67	83	63	78

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Electrical	144	162	151	240	266	267	291	314	307
Industrial	66	58	58	55	73	65	58	69	67
Materials	5	1	6	9	10	10	7	3	4
Mechanical	92	130	143	155	149	223	192	220	251
Other	2,021	2,417	2,666	2,977	3,359	3,541	3,869	4,137	4,045
Science	62,254	67,967	66,567	65,794	65,646	61,130	61,597	63,297	65,687
Natural sciences	42,103	45,843	43,777	42,918	42,648	38,019	38,633	39,758	40,857
Agricultural sciences	2,061	2,423	2,268	2,347	2,428	2,465	2,579	2,744	2,646
Biological sciences	2,699	2,988	3,154	3,319	3,516	3,727	3,762	4,163	4,634
Earth, atmospheric, and ocean sciences	90	89	96	122	134	124	111	101	117
Atmospheric sciences	9	9	4	6	3	1	0	0	0
Earth sciences	46	53	55	84	94	90	109	100	113
Oceanography	35	27	37	32	37	33	2	1	4
Mathematics and computer sciences	34,844	37,661	35,195	33,892	33,094	27,940	28,256	28,394	28,874
Computer sciences	33,615	36,616	33,934	32,524	31,273	26,074	26,144	25,937	26,065
Mathematics and statistics	1,229	1,045	1,261	1,368	1,821	1,866	2,112	2,457	2,809
Physical sciences	2,409	2,682	3,064	3,238	3,476	3,763	3,925	4,356	4,586
Astronomy	1	4	3	6	2	5	8	9	11
Chemistry	357	383	467	502	595	598	659	726	805
Physics	176	205	243	326	473	521	599	761	884
Other physical sciences	1,875	2,090	2,351	2,404	2,406	2,639	2,659	2,860	2,886
Social and behavioral sciences	20,151	22,124	22,790	22,876	22,998	23,111	22,964	23,539	24,830
Psychology	2,866	3,312	4,126	4,801	5,242	5,966	6,190	6,547	7,460
Social sciences	17,285	18,812	18,664	18,075	17,756	17,145	16,774	16,992	17,370
Anthropology	179	244	229	276	303	422	450	456	553
Area and ethnic studies	164	140	189	247	283	279	284	360	411
Economics	230	242	299	240	338	500	795	988	1,349
Linguistics	0	1	1	20	5	8	2	2	6
Political science and public administration	3,984	5,080	5,667	5,832	5,589	5,291	5,083	5,012	4,809
Sociology	580	665	964	1,090	1,269	1,484	1,610	1,890	2,165
Other social sciences	12,148	12,440	11,315	10,370	9,969	9,161	8,550	8,284	8,077
Non-S&E	745,464	789,989	772,583	759,766	755,440	736,544	717,935	703,731	704,560
S&E technologies	130,978	143,406	134,470	127,031	121,731	114,057	109,398	102,551	98,877
Engineering technologies	33,446	35,214	32,307	29,813	29,776	26,929	26,632	26,290	25,355
Health technologies	95,070	105,410	99,326	94,213	88,794	83,825	79,150	72,591	69,892

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Science technologies	1,711	1,895	1,958	2,066	2,105	2,387	2,661	2,650	2,621
Other S&E technologies	751	887	879	939	1,056	916	955	1,020	1,009
American Indian or Alaska Native									
All fields	9,451	9,932	9,930	9,780	9,517	9,095	8,935	8,966	8,749
S&E	1,051	1,048	1,096	1,117	1,077	961	942	982	971
Engineering	42	29	45	38	36	33	50	38	42
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	1	1	1	0	1	0
Civil	0	0	2	3	0	2	1	1	0
Electrical	1	1	0	1	2	0	2	2	3
Industrial	2	0	0	0	1	0	0	1	0
Materials	0	0	1	0	1	0	0	0	0
Mechanical	0	0	2	0	1	1	1	0	0
Other	39	28	40	33	30	29	46	33	39
Science	1,009	1,019	1,051	1,079	1,041	928	892	944	929
Natural sciences	509	545	582	601	537	478	453	499	480
Agricultural sciences	66	75	75	98	96	76	67	75	79
Biological sciences	46	67	79	69	64	61	68	79	75
Earth, atmospheric, and ocean sciences	0	3	2	5	6	6	4	2	10
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	3	1	5	6	6	4	2	9
Oceanography	0	0	1	0	0	0	0	0	1
Mathematics and computer sciences	350	359	376	380	313	291	271	287	258
Computer sciences	328	337	362	358	298	277	256	264	240
Mathematics and statistics	22	22	14	22	15	14	15	23	18
Physical sciences	47	41	50	49	58	44	43	56	58
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	3	4	5	5	4	3	3	3	0
Physics	2	2	2	3	4	2	3	4	2
Other physical sciences	42	35	43	41	50	39	37	49	56
Social and behavioral sciences	500	474	469	478	504	450	439	445	449
Psychology	81	88	85	103	124	126	114	103	129
Social sciences	419	386	384	375	380	324	325	342	320
Anthropology	5	7	4	3	5	5	8	6	8
Area and ethnic studies	86	69	71	84	85	82	63	79	94

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Economics	2	6	1	1	3	0	1	4	12
Linguistics	0	0	0	0	0	0	0	0	0
Political science and public administration	74	70	87	69	78	82	67	77	81
Sociology	7	16	23	29	25	20	30	31	20
Other social sciences	245	218	198	189	184	135	156	145	105
Non-S&E	8,400	8,884	8,834	8,663	8,440	8,134	7,993	7,984	7,778
S&E technologies	1,288	1,435	1,472	1,337	1,302	1,243	1,154	1,082	1,037
Engineering technologies	399	377	424	363	388	320	298	307	287
Health technologies	867	1,034	1,022	955	886	887	820	743	722
Science technologies	14	17	18	14	13	22	25	23	23
Other S&E technologies	8	7	8	5	15	14	11	9	5
Asian									
All fields	38,472	41,688	43,041	44,170	46,155	48,525	50,916	54,129	58,935
S&E	3,952	4,474	5,235	5,466	6,206	6,741	7,452	8,423	9,448
Engineering	199	272	291	357	405	448	562	611	588
Aerospace	0	0	0	0	0	0	0	0	1
Chemical	2	3	3	0	4	6	1	4	1
Civil	3	5	4	5	10	7	6	10	13
Electrical	11	19	16	29	29	31	37	44	45
Industrial	0	2	1	0	3	0	1	2	5
Materials	0	0	0	0	0	0	0	0	0
Mechanical	12	12	22	18	12	19	26	28	36
Other	171	231	245	305	347	385	491	523	487
Science	3,753	4,202	4,944	5,109	5,801	6,293	6,890	7,812	8,860
Natural sciences	2,457	2,738	3,078	3,209	3,607	3,760	4,200	4,946	5,485
Agricultural sciences	13	18	23	22	26	17	20	35	30
Biological sciences	405	471	499	522	542	591	654	793	920
Earth, atmospheric, and ocean sciences	4	6	1	1	5	4	4	13	3
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	4	4	1	1	5	4	4	13	3
Oceanography	0	2	0	0	0	0	0	0	0
Mathematics and computer sciences	1,662	1,782	2,048	2,087	2,335	2,438	2,770	3,188	3,471
Computer sciences	1,438	1,585	1,770	1,777	1,907	1,963	2,165	2,420	2,564
Mathematics and statistics	224	197	278	310	428	475	605	768	907
Physical sciences	373	461	507	577	699	710	752	917	1,061

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Astronomy	0	0	1	1	0	1	1	1	1
Chemistry	104	131	132	159	170	164	178	204	266
Physics	21	44	59	88	127	134	160	228	286
Other physical sciences	248	286	315	329	402	411	413	484	508
Social and behavioral sciences	1,296	1,464	1,866	1,900	2,194	2,533	2,690	2,866	3,375
Psychology	174	243	364	480	562	715	824	884	1,017
Social sciences	1,122	1,221	1,502	1,420	1,632	1,818	1,866	1,982	2,358
Anthropology	15	16	19	22	24	32	44	37	59
Area and ethnic studies	3	10	10	13	10	10	18	25	19
Economics	39	49	55	36	76	142	220	256	422
Linguistics	0	0	1	4	2	3	1	2	2
Political science and public administration	78	83	137	122	166	212	200	240	279
Sociology	58	56	115	154	171	251	270	334	378
Other social sciences	929	1,007	1,165	1,069	1,183	1,168	1,113	1,088	1,199
Non-S&E	34,520	37,214	37,806	38,704	39,949	41,784	43,464	45,706	49,487
S&E technologies	4,798	5,645	5,446	5,515	5,385	5,221	5,347	5,372	5,713
Engineering technologies	1,007	994	1,023	966	1,040	884	900	1,030	1,028
Health technologies	3,665	4,486	4,273	4,392	4,137	4,101	4,184	4,076	4,429
Science technologies	87	121	113	131	169	197	221	215	218
Other S&E technologies	39	44	37	26	39	39	42	51	38
Black or African American									
All fields	119,153	131,310	127,770	127,067	131,171	128,307	125,139	121,112	120,615
S&E	9,541	10,156	10,564	10,899	11,101	9,593	9,598	9,937	9,866
Engineering	183	236	244	308	322	408	395	460	462
Aerospace	0	0	0	0	0	0	0	0	1
Chemical	1	0	3	1	1	1	3	0	2
Civil	4	2	4	6	6	10	10	10	5
Electrical	23	17	17	44	52	59	49	57	48
Industrial	3	3	3	0	7	6	3	7	5
Materials	0	0	0	0	0	0	0	0	0
Mechanical	1	4	3	7	4	12	8	12	8
Other	151	210	214	250	252	320	322	374	393
Science	9,358	9,920	10,320	10,591	10,779	9,185	9,203	9,477	9,404
Natural sciences	6,017	6,210	6,529	6,564	6,632	4,973	4,951	4,993	5,166
Agricultural sciences	12	25	20	34	30	28	32	33	44

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Civil	0	2	0	0	0	0	0	2	1
Electrical	2	2	2	3	3	3	6	4	0
Industrial	0	0	0	0	0	0	1	0	0
Materials	0	0	0	0	0	0	0	0	0
Mechanical	0	2	0	0	1	2	0	0	1
Other	19	17	18	18	12	12	5	14	11
Science	475	483	513	407	419	372	398	424	423
Natural sciences	236	255	268	251	239	197	219	242	233
Agricultural sciences	15	23	27	25	27	31	33	56	43
Biological sciences	52	25	31	29	34	29	25	41	38
Earth, atmospheric, and ocean sciences	0	0	0	0	1	0	0	0	0
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	0	0	0	1	0	0	0	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	148	195	193	177	159	113	143	129	140
Computer sciences	146	190	190	174	153	106	129	119	130
Mathematics and statistics	2	5	3	3	6	7	14	10	10
Physical sciences	21	12	17	20	18	24	18	16	12
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	1	3	0	3	3	2	1	0	3
Physics	0	0	0	0	4	2	1	5	0
Other physical sciences	20	9	17	17	11	20	16	11	9
Social and behavioral sciences	239	228	245	156	180	175	179	182	190
Psychology	18	19	31	23	20	41	46	28	37
Social sciences	221	209	214	133	160	134	133	154	153
Anthropology	1	2	1	0	2	3	2	5	2
Area and ethnic studies	1	3	11	17	15	19	11	10	15
Economics	0	0	0	1	3	3	6	5	4
Linguistics	0	0	0	1	0	0	0	0	0
Political science and public administration	26	24	29	13	23	15	27	25	31
Sociology	6	10	10	11	7	17	14	16	18
Other social sciences	187	170	163	90	110	77	73	93	83
Non-S&E	4,253	3,915	3,889	3,898	3,668	3,518	3,483	3,475	3,451
S&E technologies	576	539	569	534	483	497	474	430	386
Engineering technologies	102	102	130	95	95	108	122	94	78

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Health technologies	459	416	430	427	368	372	339	323	298
Science technologies	8	11	6	5	7	12	6	7	4
Other S&E technologies	7	10	3	7	13	5	7	6	6
White									
All fields	560,422	586,478	580,945	568,298	561,723	542,660	530,746	517,190	511,122
S&E	41,359	43,665	44,789	44,307	44,059	40,883	41,574	41,770	42,702
Engineering	1,797	2,068	2,266	2,507	2,862	2,914	3,134	3,263	3,251
Aerospace	0	2	0	0	1	0	0	2	9
Chemical	14	8	8	11	26	18	17	13	22
Civil	45	50	64	37	42	44	62	36	57
Electrical	94	100	106	142	161	143	173	175	171
Industrial	49	50	45	52	54	50	50	49	50
Materials	5	1	5	9	9	10	6	3	4
Mechanical	69	96	99	118	110	161	133	155	168
Other	1,521	1,761	1,939	2,138	2,459	2,488	2,693	2,830	2,770
Science	39,562	41,597	42,523	41,800	41,197	37,969	38,440	38,507	39,451
Natural sciences	27,932	29,219	29,160	28,269	27,928	25,076	25,490	25,579	25,761
Agricultural sciences	1,838	2,157	1,995	2,051	2,113	2,163	2,281	2,397	2,263
Biological sciences	1,628	1,822	1,886	2,015	2,158	2,267	2,211	2,380	2,592
Earth, atmospheric, and ocean sciences	80	76	87	108	112	106	94	76	91
Atmospheric sciences	8	9	4	6	3	0	0	0	0
Earth sciences	37	42	49	71	74	76	92	75	88
Oceanography	35	25	34	31	35	30	2	1	3
Mathematics and computer sciences	23,039	23,656	23,468	22,263	21,615	18,462	18,713	18,411	18,466
Computer sciences	22,348	22,991	22,697	21,420	20,509	17,384	17,512	17,135	16,996
Mathematics and statistics	691	665	771	843	1,106	1,078	1,201	1,276	1,470
Physical sciences	1,347	1,508	1,724	1,832	1,930	2,078	2,191	2,315	2,349
Astronomy	1	4	1	4	2	3	7	5	8
Chemistry	200	187	245	260	328	333	371	418	429
Physics	112	125	146	189	271	309	368	412	467
Other physical sciences	1,034	1,192	1,332	1,379	1,329	1,433	1,445	1,480	1,445
Social and behavioral sciences	11,630	12,378	13,363	13,531	13,269	12,893	12,950	12,928	13,690
Psychology	2,003	2,173	2,681	3,119	3,236	3,586	3,672	3,824	4,425
Social sciences	9,627	10,205	10,682	10,412	10,033	9,307	9,278	9,104	9,265
Anthropology	130	182	166	201	226	306	332	332	385

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Area and ethnic studies	40	28	46	63	89	77	96	105	123
Economics	143	151	190	157	222	277	460	560	731
Linguistics	0	1	0	8	3	4	1	0	4
Political science and public administration	2,041	2,368	3,144	3,295	3,133	2,763	2,755	2,557	2,421
Sociology	332	360	542	571	675	763	837	858	1,032
Other social sciences	6,941	7,115	6,594	6,117	5,685	5,117	4,797	4,692	4,569
Non-S&E	519,063	542,813	536,156	523,991	517,664	501,777	489,172	475,420	468,420
S&E technologies	90,822	96,719	92,913	87,297	84,261	79,674	76,938	72,625	68,989
Engineering technologies	24,791	24,359	23,623	21,869	21,591	20,144	20,302	20,156	19,207
Health technologies	64,190	70,326	67,199	63,276	60,426	57,247	54,118	49,935	47,321
Science technologies	1,288	1,400	1,435	1,497	1,492	1,650	1,830	1,801	1,745
Other S&E technologies	553	634	656	655	752	633	688	733	716
More than one race									
All fields	10,487	13,726	18,278	21,431	24,290	27,732	28,570	31,837	35,153
S&E	726	1,110	1,800	2,154	2,549	3,087	3,110	3,433	3,980
Engineering	25	26	58	90	101	149	148	186	216
Aerospace	0	1	0	0	0	0	0	0	1
Chemical	0	0	0	1	4	0	1	3	2
Civil	1	1	2	2	0	1	2	2	0
Electrical	0	0	4	3	8	9	9	11	20
Industrial	0	0	0	1	2	0	0	2	0
Materials	0	0	0	0	0	0	0	0	0
Mechanical	4	6	6	5	3	8	11	8	20
Other	20	18	46	78	84	131	125	160	173
Science	701	1,084	1,742	2,064	2,448	2,938	2,962	3,247	3,764
Natural sciences	421	590	916	1,061	1,256	1,405	1,481	1,632	1,894
Agricultural sciences	21	26	34	40	48	68	69	65	96
Biological sciences	34	55	91	94	129	153	192	221	288
Earth, atmospheric, and ocean sciences	2	0	2	2	3	2	2	3	12
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	2	0	2	1	1	1	2	3	12
Oceanography	0	0	0	1	2	1	0	0	0
Mathematics and computer sciences	321	442	677	790	904	983	1,014	1,096	1,209
Computer sciences	300	422	628	738	810	874	895	933	1,010
Mathematics and statistics	21	20	49	52	94	109	119	163	199

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physical sciences	43	67	112	135	172	199	204	247	289
Astronomy	0	0	0	0	0	0	0	1	1
Chemistry	4	10	18	22	29	33	42	31	50
Physics	1	5	10	14	31	44	37	54	72
Other physical sciences	38	52	84	99	112	122	125	161	166
Social and behavioral sciences	280	494	826	1,003	1,192	1,533	1,481	1,615	1,870
Psychology	53	85	169	226	333	371	436	481	613
Social sciences	227	409	657	777	859	1,162	1,045	1,134	1,257
Anthropology	5	10	16	25	16	39	36	40	63
Area and ethnic studies	3	4	14	24	43	43	36	65	68
Economics	4	4	13	6	10	33	43	68	97
Linguistics	0	0	0	1	0	0	0	0	0
Political science and public administration	37	63	122	145	176	245	203	204	238
Sociology	15	24	39	77	96	103	119	180	191
Other social sciences	163	304	453	499	518	699	608	577	600
Non-S&E	9,761	12,616	16,478	19,277	21,741	24,645	25,460	28,404	31,173
S&E technologies	1,412	1,926	2,479	2,617	2,791	3,181	3,131	3,227	3,444
Engineering technologies	329	384	643	698	712	731	742	773	827
Health technologies	1,053	1,492	1,752	1,783	1,980	2,324	2,250	2,319	2,446
Science technologies	17	30	64	78	63	79	95	109	116
Other S&E technologies	13	20	20	58	36	47	44	26	55
Other or unknown race or ethnicity									
All fields	67,385	73,246	57,882	53,992	48,088	41,651	35,858	34,707	36,577
S&E	7,530	9,853	5,668	4,927	4,180	3,679	3,036	3,140	3,075
Engineering	134	191	194	183	219	234	224	254	219
Aerospace	0	0	0	0	2	0	0	1	0
Chemical	2	0	0	0	5	4	3	2	0
Civil	1	3	4	1	2	3	2	2	2
Electrical	13	23	6	18	11	22	15	21	20
Industrial	12	3	9	2	6	9	3	8	7
Materials	0	0	0	0	0	0	1	0	0
Mechanical	6	10	11	7	18	20	13	17	18
Other	100	152	164	155	175	176	187	203	172
Science	7,396	9,662	5,474	4,744	3,961	3,445	2,812	2,886	2,856
Natural sciences	4,531	6,286	3,244	2,963	2,449	2,130	1,839	1,867	1,838

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Agricultural sciences	96	99	94	77	88	82	77	83	91
Biological sciences	262	221	205	214	158	168	139	152	161
Earth, atmospheric, and ocean sciences	2	4	3	4	5	3	6	6	1
Atmospheric sciences	1	0	0	0	0	0	0	0	0
Earth sciences	1	4	1	4	5	1	6	6	1
Oceanography	0	0	2	0	0	2	0	0	0
Mathematics and computer sciences	3,955	5,762	2,710	2,465	2,001	1,634	1,415	1,397	1,375
Computer sciences	3,777	5,687	2,634	2,387	1,918	1,552	1,363	1,296	1,288
Mathematics and statistics	178	75	76	78	83	82	52	101	87
Physical sciences	216	200	232	203	197	243	202	229	210
Astronomy	0	0	1	1	0	0	0	1	0
Chemistry	32	31	38	35	29	33	22	24	17
Physics	20	20	18	22	21	13	11	35	30
Other physical sciences	164	149	175	145	147	197	169	169	163
Social and behavioral sciences	2,865	3,376	2,230	1,781	1,512	1,315	973	1,019	1,018
Psychology	223	288	339	263	269	296	256	329	290
Social sciences	2,642	3,088	1,891	1,518	1,243	1,019	717	690	728
Anthropology	18	21	15	18	14	23	14	16	14
Area and ethnic studies	9	8	10	7	10	6	16	8	18
Economics	24	22	22	20	12	17	25	50	41
Linguistics	0	0	0	4	0	0	0	0	0
Political science and public administration	659	1,069	604	489	425	372	229	214	294
Sociology	54	56	59	72	59	55	61	79	95
Other social sciences	1,878	1,912	1,181	908	723	546	372	323	266
Non-S&E	59,855	63,393	52,214	49,065	43,908	37,972	32,822	31,567	33,502
S&E technologies	11,631	14,513	10,356	10,713	7,785	5,932	4,648	4,362	5,048
Engineering technologies	2,499	4,690	2,072	1,879	1,668	1,418	1,113	1,112	1,146
Health technologies	9,018	9,728	8,167	8,720	6,001	4,419	3,429	3,128	3,797
Science technologies	75	69	73	75	85	72	84	88	78
Other S&E technologies	39	26	44	39	31	23	22	34	27
Temporary visa holder									
All fields	16,632	17,106	16,872	17,113	17,984	19,404	20,938	23,084	24,484
S&E	1,521	1,598	1,587	1,715	1,936	2,171	2,600	3,266	3,567
Engineering	184	239	174	196	228	237	355	428	418
Aerospace	0	0	1	0	0	0	0	0	0

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Chemical	9	1	3	3	7	4	13	14	14
Civil	6	9	11	5	1	8	9	12	10
Electrical	10	11	9	14	12	19	13	27	18
Industrial	0	0	0	0	1	1	0	1	0
Materials	0	0	0	0	0	1	0	2	1
Mechanical	12	15	9	28	24	24	37	41	55
Other	147	203	141	146	183	180	283	331	320
Science	1,337	1,359	1,413	1,519	1,708	1,934	2,245	2,838	3,149
Natural sciences	986	970	969	1,081	1,203	1,329	1,603	2,001	2,296
Agricultural sciences	10	12	16	22	92	28	20	26	18
Biological sciences	92	93	114	112	92	115	143	170	270
Earth, atmospheric, and ocean sciences	2	2	3	1	1	0	6	1	0
Atmospheric sciences	1	0	0	0	0	0	0	0	0
Earth sciences	1	2	3	1	1	0	6	1	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	624	576	582	640	642	822	988	1,329	1,484
Computer sciences	549	490	513	545	547	667	777	1,069	1,181
Mathematics and statistics	75	86	69	95	95	155	211	260	303
Physical sciences	258	287	254	306	376	364	446	475	524
Astronomy	0	0	0	0	1	1	0	0	0
Chemistry	28	33	19	21	25	20	35	40	52
Physics	9	11	8	21	23	26	41	59	63
Other physical sciences	221	243	227	264	327	317	370	376	409
Social and behavioral sciences	351	389	444	438	505	605	642	837	853
Psychology	56	37	62	80	115	102	124	162	188
Social sciences	295	352	382	358	390	503	518	675	665
Anthropology	3	2	2	0	7	6	2	11	9
Area and ethnic studies	11	4	5	10	4	12	6	13	10
Economics	45	58	53	52	65	141	193	299	288
Linguistics	0	0	1	3	0	0	0	0	1
Political science and public administration	34	46	66	53	57	87	89	95	101
Sociology	12	16	18	13	18	20	21	28	38
Other social sciences	190	226	237	227	239	237	207	229	218
Non-S&E	15,111	15,508	15,285	15,398	16,048	17,233	18,338	19,818	20,917
S&E technologies	959	1,020	1,044	956	885	979	1,125	1,066	1,179

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Engineering technologies	288	264	318	311	312	415	494	420	458
Health technologies	636	712	677	602	537	522	585	610	659
Science technologies	35	44	49	43	36	42	46	36	62
Other S&E technologies	0	0	0	0	0	0	0	0	0
Male									
All citizenships, races, and ethnicity									
All fields	363,998	395,343	391,816	394,169	400,407	395,664	397,404	401,893	410,177
S&E	43,490	48,864	48,607	49,753	50,540	47,703	49,784	52,733	54,632
Engineering	2,557	3,048	3,329	3,819	4,309	4,616	5,096	5,433	5,420
Aerospace	0	3	1	0	1	0	0	2	12
Chemical	24	11	14	12	37	28	28	24	35
Civil	55	70	95	84	91	100	121	103	98
Electrical	172	189	173	293	308	336	353	365	346
Industrial	61	59	56	64	91	68	62	62	61
Materials	5	1	5	8	10	11	13	5	7
Mechanical	124	164	164	195	174	271	277	271	339
Other	2,116	2,551	2,821	3,163	3,597	3,802	4,242	4,601	4,522
Science	40,933	45,816	45,278	45,934	46,231	43,087	44,688	47,300	49,212
Natural sciences	34,432	38,429	37,134	37,188	37,036	32,945	34,027	35,819	36,683
Agricultural sciences	1,364	1,585	1,469	1,485	1,623	1,528	1,607	1,668	1,632
Biological sciences	1,192	1,357	1,405	1,542	1,689	1,862	1,795	2,125	2,251
Earth, atmospheric, and ocean sciences	63	69	77	94	97	95	101	74	95
Atmospheric sciences	7	9	3	5	2	1	0	0	0
Earth sciences	29	42	43	60	69	68	99	74	92
Oceanography	27	18	31	29	26	26	2	0	3
Mathematics and computer sciences	30,140	33,410	31,911	31,504	30,772	26,294	27,245	28,110	28,742
Computer sciences	29,115	32,360	30,668	30,012	28,857	24,134	24,875	25,230	25,543
Mathematics and statistics	1,025	1,050	1,243	1,492	1,915	2,160	2,370	2,880	3,199
Physical sciences	1,673	2,008	2,272	2,563	2,855	3,166	3,279	3,842	3,963
Astronomy	0	2	3	7	5	5	9	7	9
Chemistry	222	276	314	384	443	411	396	516	573
Physics	194	252	290	389	559	701	761	994	1,128
Other physical sciences	1,257	1,478	1,665	1,783	1,848	2,049	2,113	2,325	2,253
Social and behavioral sciences	6,501	7,387	8,144	8,746	9,195	10,142	10,661	11,481	12,529
Psychology	896	1,092	1,496	1,795	2,050	2,591	2,672	2,921	3,403

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Social sciences	5,605	6,295	6,648	6,951	7,145	7,551	7,989	8,560	9,126
Anthropology	67	127	115	126	151	198	233	265	301
Area and ethnic studies	66	63	100	131	148	155	181	238	307
Economics	209	240	284	263	325	527	778	1,019	1,368
Linguistics	0	0	1	12	2	1	1	2	4
Political science and public administration	811	1,069	1,186	1,308	1,357	1,425	1,584	1,683	1,741
Sociology	221	292	428	532	682	821	972	1,154	1,230
Other social sciences	4,231	4,504	4,534	4,579	4,480	4,424	4,240	4,199	4,175
Non-S&E	320,508	346,479	343,209	344,416	349,867	347,961	347,620	349,160	355,545
S&E technologies	52,795	58,268	54,566	51,978	51,343	47,851	47,071	46,251	45,134
Engineering technologies	33,301	35,717	32,699	30,353	30,401	27,404	27,195	26,975	26,130
Health technologies	17,536	20,403	19,602	19,248	18,328	17,670	16,868	16,275	16,041
Science technologies	1,265	1,378	1,492	1,479	1,599	1,905	2,129	2,055	2,038
Other S&E technologies	693	770	773	898	1,015	872	879	946	925
U.S. citizen or permanent resident									
All fields	357,187	388,220	384,765	386,969	392,647	387,028	388,035	391,397	399,209
S&E	42,590	47,893	47,693	48,762	49,392	46,414	48,223	50,753	52,568
Engineering	2,399	2,848	3,180	3,655	4,127	4,443	4,829	5,110	5,104
Aerospace	0	3	0	0	1	0	0	2	12
Chemical	18	10	12	11	33	24	20	19	26
Civil	49	63	86	80	90	93	116	93	90
Electrical	163	180	164	281	298	322	342	341	332
Industrial	61	59	56	64	90	67	62	61	61
Materials	5	1	5	8	10	10	13	4	6
Mechanical	112	149	155	171	155	253	250	236	289
Other	1,991	2,383	2,702	3,040	3,450	3,674	4,026	4,354	4,288
Science	40,191	45,045	44,513	45,107	45,265	41,971	43,394	45,643	47,464
Natural sciences	33,796	37,778	36,510	36,481	36,249	32,069	32,955	34,500	35,277
Agricultural sciences	1,358	1,578	1,461	1,472	1,553	1,506	1,596	1,656	1,622
Biological sciences	1,155	1,321	1,368	1,500	1,658	1,825	1,749	2,071	2,180
Earth, atmospheric, and ocean sciences	61	67	76	93	96	95	98	73	95
Atmospheric sciences	6	9	3	5	2	1	0	0	0
Earth sciences	28	40	42	59	68	68	96	73	92
Oceanography	27	18	31	29	26	26	2	0	3
Mathematics and computer sciences	29,702	32,984	31,480	31,051	30,337	25,710	26,540	27,160	27,728

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Computer sciences	28,732	31,988	30,284	29,611	28,483	23,651	24,295	24,435	24,698
Mathematics and statistics	970	996	1,196	1,440	1,854	2,059	2,245	2,725	3,030
Physical sciences	1,520	1,828	2,125	2,365	2,605	2,933	2,972	3,540	3,652
Astronomy	0	2	3	7	4	5	9	7	9
Chemistry	210	262	307	372	430	406	381	496	554
Physics	189	244	285	375	543	682	737	960	1,087
Other physical sciences	1,121	1,320	1,530	1,611	1,628	1,840	1,845	2,077	2,002
Social and behavioral sciences	6,395	7,267	8,003	8,626	9,016	9,902	10,439	11,143	12,187
Psychology	884	1,087	1,482	1,783	2,020	2,569	2,640	2,876	3,354
Social sciences	5,511	6,180	6,521	6,843	6,996	7,333	7,799	8,267	8,833
Anthropology	67	126	115	126	148	195	232	262	294
Area and ethnic studies	61	63	100	130	147	154	181	231	304
Economics	187	203	252	235	292	450	691	859	1,226
Linguistics	0	0	1	11	2	1	1	2	4
Political science and public administration	801	1,057	1,164	1,295	1,347	1,394	1,554	1,648	1,695
Sociology	219	286	421	530	678	814	968	1,146	1,218
Other social sciences	4,176	4,445	4,468	4,516	4,382	4,325	4,172	4,119	4,092
Non-S&E	314,597	340,327	337,072	338,207	343,255	340,614	339,812	340,644	346,641
S&E technologies	52,397	57,871	54,115	51,531	50,970	47,381	46,545	45,785	44,592
Engineering technologies	33,074	35,516	32,445	30,100	30,173	27,094	26,833	26,661	25,772
Health technologies	17,383	20,229	19,432	19,068	18,201	17,533	16,735	16,140	15,894
Science technologies	1,247	1,356	1,465	1,465	1,581	1,882	2,098	2,038	2,001
Other S&E technologies	693	770	773	898	1,015	872	879	946	925
Hispanic or Latino									
All fields	46,421	56,242	59,426	63,631	69,190	74,362	78,276	84,514	91,697
S&E	4,979	6,197	7,163	8,202	8,958	9,448	10,461	11,677	12,699
Engineering	341	365	469	602	683	817	961	1,011	1,054
Aerospace	0	0	0	0	0	0	0	0	1
Chemical	3	1	2	2	2	1	1	4	4
Civil	7	16	23	40	36	40	45	40	27
Electrical	41	30	36	62	61	71	78	69	80
Industrial	2	9	5	11	22	6	10	7	3
Materials	0	0	0	1	1	1	6	3	2
Mechanical	31	27	27	28	29	54	75	63	72
Other	257	282	376	458	532	644	746	825	865

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Science	4,638	5,832	6,694	7,600	8,275	8,631	9,500	10,666	11,645
Natural sciences	3,443	4,227	4,713	5,140	5,495	5,178	5,638	6,392	6,874
Agricultural sciences	28	44	67	73	83	98	98	116	141
Biological sciences	225	293	331	373	460	521	542	638	722
Earth, atmospheric, and ocean sciences	1	7	8	9	9	16	22	15	20
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	1	7	7	8	8	16	22	15	20
Oceanography	0	0	1	1	1	0	0	0	0
Mathematics and computer sciences	2,974	3,559	3,919	4,190	4,302	3,788	4,204	4,609	4,869
Computer sciences	2,771	3,288	3,598	3,704	3,728	3,041	3,422	3,595	3,765
Mathematics and statistics	203	271	321	486	574	747	782	1,014	1,104
Physical sciences	215	324	388	495	641	755	772	1,014	1,122
Astronomy	0	0	1	2	2	1	3	3	3
Chemistry	40	59	76	101	127	120	109	162	179
Physics	50	73	94	126	185	275	283	411	448
Other physical sciences	125	192	217	266	327	359	377	438	492
Social and behavioral sciences	1,195	1,605	1,981	2,460	2,780	3,453	3,862	4,274	4,771
Psychology	238	308	454	629	792	1,093	1,165	1,336	1,512
Social sciences	957	1,297	1,527	1,831	1,988	2,360	2,697	2,938	3,259
Anthropology	14	43	44	34	39	72	89	107	109
Area and ethnic studies	13	16	28	34	38	39	55	75	92
Economics	49	52	71	81	96	145	206	284	402
Linguistics	0	0	0	4	1	0	0	1	0
Political science and public administration	126	155	179	257	309	351	488	511	571
Sociology	61	101	143	226	311	427	498	625	660
Other social sciences	694	930	1,062	1,195	1,194	1,326	1,361	1,335	1,425
Non-S&E	41,442	50,045	52,263	55,429	60,232	64,914	67,815	72,837	78,998
S&E technologies	6,571	8,015	7,746	7,601	7,859	7,655	7,799	8,318	8,356
Engineering technologies	3,906	4,560	4,224	3,929	4,056	3,757	3,749	4,028	4,163
Health technologies	2,436	3,175	3,195	3,322	3,371	3,424	3,468	3,645	3,539
Science technologies	145	201	234	228	285	377	468	501	511
Other S&E technologies	84	79	93	122	147	97	114	144	143
Not Hispanic or Latino									
All fields	310,766	331,978	325,339	323,338	323,457	312,666	309,759	306,883	307,512
S&E	37,611	41,696	40,530	40,560	40,434	36,966	37,762	39,076	39,869

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Engineering	2,058	2,483	2,711	3,053	3,444	3,626	3,868	4,099	4,050
Aerospace	0	3	0	0	1	0	0	2	11
Chemical	15	9	10	9	31	23	19	15	22
Civil	42	47	63	40	54	53	71	53	63
Electrical	122	150	128	219	237	251	264	272	252
Industrial	59	50	51	53	68	61	52	54	58
Materials	5	1	5	7	9	9	7	1	4
Mechanical	81	122	128	143	126	199	175	173	217
Other	1,734	2,101	2,326	2,582	2,918	3,030	3,280	3,529	3,423
Science	35,553	39,213	37,819	37,507	36,990	33,340	33,894	34,977	35,819
Natural sciences	30,353	33,551	31,797	31,341	30,754	26,891	27,317	28,108	28,403
Agricultural sciences	1,330	1,534	1,394	1,399	1,470	1,408	1,498	1,540	1,481
Biological sciences	930	1,028	1,037	1,127	1,198	1,304	1,207	1,433	1,458
Earth, atmospheric, and ocean sciences	60	60	68	84	87	79	76	58	75
Atmospheric sciences	6	9	3	5	2	1	0	0	0
Earth sciences	27	33	35	51	60	52	74	58	72
Oceanography	27	18	30	28	25	26	2	0	3
Mathematics and computer sciences	26,728	29,425	27,561	26,861	26,035	21,922	22,336	22,551	22,859
Computer sciences	25,961	28,700	26,686	25,907	24,755	20,610	20,873	20,840	20,933
Mathematics and statistics	767	725	875	954	1,280	1,312	1,463	1,711	1,926
Physical sciences	1,305	1,504	1,737	1,870	1,964	2,178	2,200	2,526	2,530
Astronomy	0	2	2	5	2	4	6	4	6
Chemistry	170	203	231	271	303	286	272	334	375
Physics	139	171	191	249	358	407	454	549	639
Other physical sciences	996	1,128	1,313	1,345	1,301	1,481	1,468	1,639	1,510
Social and behavioral sciences	5,200	5,662	6,022	6,166	6,236	6,449	6,577	6,869	7,416
Psychology	646	779	1,028	1,154	1,228	1,476	1,475	1,540	1,842
Social sciences	4,554	4,883	4,994	5,012	5,008	4,973	5,102	5,329	5,574
Anthropology	53	83	71	92	109	123	143	155	185
Area and ethnic studies	48	47	72	96	109	115	126	156	212
Economics	138	151	181	154	196	305	485	575	824
Linguistics	0	0	1	7	1	1	1	1	4
Political science and public administration	675	902	985	1,038	1,038	1,043	1,066	1,137	1,124
Sociology	158	185	278	304	367	387	470	521	558
Other social sciences	3,482	3,515	3,406	3,321	3,188	2,999	2,811	2,784	2,667

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Non-S&E	273,155	290,282	284,809	282,778	283,023	275,700	271,997	267,807	267,643
S&E technologies	45,826	49,856	46,369	43,930	43,111	39,726	38,746	37,467	36,236
Engineering technologies	29,168	30,956	28,221	26,171	26,117	23,337	23,084	22,633	21,609
Health technologies	14,947	17,054	16,237	15,746	14,830	14,109	13,267	12,495	12,355
Science technologies	1,102	1,155	1,231	1,237	1,296	1,505	1,630	1,537	1,490
Other S&E technologies	609	691	680	776	868	775	765	802	782
American Indian or Alaska Native									
All fields	3,455	3,605	3,420	3,474	3,408	3,186	3,238	3,239	3,057
S&E	490	488	501	525	486	434	447	454	427
Engineering	36	20	33	29	28	28	42	33	30
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	0	1	1	0	1	0
Civil	0	0	1	3	0	2	1	1	0
Electrical	1	0	0	1	2	0	2	2	1
Industrial	2	0	0	0	1	0	0	1	0
Materials	0	0	1	0	1	0	0	0	0
Mechanical	0	0	2	0	1	1	0	0	0
Other	33	20	29	25	22	24	39	28	29
Science	454	468	468	496	458	406	405	421	397
Natural sciences	302	338	350	375	321	282	279	296	273
Agricultural sciences	38	41	39	57	52	41	36	37	35
Biological sciences	10	20	25	17	17	18	18	29	19
Earth, atmospheric, and ocean sciences	0	2	2	4	6	3	3	0	8
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	2	1	4	6	3	3	0	7
Oceanography	0	0	1	0	0	0	0	0	1
Mathematics and computer sciences	229	254	256	273	219	199	199	198	181
Computer sciences	216	237	247	260	207	189	189	182	171
Mathematics and statistics	13	17	9	13	12	10	10	16	10
Physical sciences	25	21	28	24	27	21	23	32	30
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	1	4	1	4	2	1	0	3	0
Physics	1	1	2	2	3	2	2	4	0
Other physical sciences	23	16	25	18	22	18	21	25	30
Social and behavioral sciences	152	130	118	121	137	124	126	125	124

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Psychology	24	16	17	12	20	29	30	21	25
Social sciences	128	114	101	109	117	95	96	104	99
Anthropology	3	3	0	1	2	2	5	1	2
Area and ethnic studies	27	22	22	34	27	31	16	25	38
Economics	0	4	1	1	3	0	1	2	9
Linguistics	0	0	0	0	0	0	0	0	0
Political science and public administration	15	18	18	17	13	14	7	18	16
Sociology	1	3	4	7	8	6	11	12	8
Other social sciences	82	64	56	49	64	42	56	46	26
Non-S&E	2,965	3,117	2,919	2,949	2,922	2,752	2,791	2,785	2,630
S&E technologies	477	502	510	469	481	429	365	381	374
Engineering technologies	328	322	335	294	318	261	224	245	242
Health technologies	136	163	159	160	141	144	116	116	115
Science technologies	8	12	9	10	8	12	16	15	15
Other S&E technologies	5	5	7	5	14	12	9	5	2
Asian									
All fields	16,135	17,408	18,370	19,053	19,922	21,069	22,249	23,564	25,715
S&E	2,230	2,549	3,002	3,122	3,492	3,705	4,142	4,696	5,126
Engineering	170	218	235	294	321	358	452	492	466
Aerospace	0	0	0	0	0	0	0	0	1
Chemical	1	1	2	0	2	5	1	3	1
Civil	3	3	3	4	10	7	5	10	11
Electrical	11	16	15	25	25	29	32	40	30
Industrial	0	2	1	0	3	0	1	1	4
Materials	0	0	0	0	0	0	0	0	0
Mechanical	9	10	14	14	9	17	24	20	27
Other	146	186	200	251	272	300	389	418	392
Science	2,060	2,331	2,767	2,828	3,171	3,347	3,690	4,204	4,660
Natural sciences	1,606	1,812	2,068	2,148	2,402	2,429	2,700	3,182	3,439
Agricultural sciences	8	8	14	15	17	12	7	15	15
Biological sciences	141	163	172	177	181	206	221	275	291
Earth, atmospheric, and ocean sciences	2	4	0	1	4	2	0	6	2
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	2	2	0	1	4	2	0	6	2
Oceanography	0	2	0	0	0	0	0	0	0

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Mathematics and computer sciences	1,277	1,385	1,605	1,630	1,807	1,823	2,070	2,371	2,574
Computer sciences	1,154	1,255	1,421	1,424	1,513	1,518	1,681	1,879	1,988
Mathematics and statistics	123	130	184	206	294	305	389	492	586
Physical sciences	178	252	277	325	393	386	402	515	557
Astronomy	0	0	1	1	0	1	0	1	1
Chemistry	46	64	68	71	80	64	60	77	104
Physics	15	35	41	66	88	94	114	149	192
Other physical sciences	117	153	167	187	225	227	228	288	260
Social and behavioral sciences	454	519	699	680	769	918	990	1,022	1,221
Psychology	58	82	119	168	180	232	256	276	314
Social sciences	396	437	580	512	589	686	734	746	907
Anthropology	4	6	10	9	7	13	19	14	26
Area and ethnic studies	1	4	6	4	4	6	15	15	12
Economics	24	27	30	22	44	69	121	127	226
Linguistics	0	0	1	1	0	0	1	1	1
Political science and public administration	24	22	45	45	62	74	78	102	109
Sociology	16	21	47	52	65	79	119	112	103
Other social sciences	327	357	441	379	407	445	381	375	430
Non-S&E	13,905	14,859	15,368	15,931	16,430	17,364	18,107	18,868	20,589
S&E technologies	2,040	2,291	2,232	2,249	2,288	2,169	2,189	2,195	2,245
Engineering technologies	880	847	876	813	891	742	769	843	814
Health technologies	1,092	1,346	1,270	1,349	1,280	1,276	1,273	1,197	1,304
Science technologies	36	65	58	70	84	114	109	117	99
Other S&E technologies	32	33	28	17	33	37	38	38	28
Black or African American									
All fields	38,350	42,257	42,625	43,152	44,919	42,671	41,439	40,212	39,779
S&E	4,765	5,135	5,469	5,777	5,868	4,565	4,612	4,726	4,652
Engineering	152	201	212	271	289	348	350	383	366
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	1	0	3	1	0	1	3	0	1
Civil	2	1	4	6	4	6	9	8	3
Electrical	18	14	11	40	50	56	46	48	39
Industrial	2	3	3	0	7	6	3	3	5
Materials	0	0	0	0	0	0	0	0	0
Mechanical	0	4	3	7	3	9	8	8	7

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Other	129	179	188	217	225	270	281	316	311
Science	4,613	4,934	5,257	5,506	5,579	4,217	4,262	4,343	4,286
Natural sciences	3,938	4,138	4,412	4,538	4,556	3,241	3,216	3,276	3,264
Agricultural sciences	8	14	14	20	20	11	14	16	27
Biological sciences	89	102	106	118	141	140	168	165	137
Earth, atmospheric, and ocean sciences	2	0	1	1	2	3	1	1	0
Atmospheric sciences	0	0	0	0	0	1	0	0	0
Earth sciences	2	0	1	1	2	2	1	1	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	3,708	3,892	4,153	4,242	4,235	2,898	2,851	2,873	2,895
Computer sciences	3,659	3,843	4,110	4,195	4,173	2,831	2,778	2,781	2,818
Mathematics and statistics	49	49	43	47	62	67	73	92	77
Physical sciences	131	130	138	157	158	189	182	221	205
Astronomy	0	0	0	0	0	1	0	1	0
Chemistry	6	9	11	9	18	13	14	22	15
Physics	16	8	6	8	7	12	14	19	20
Other physical sciences	109	113	121	140	133	163	154	179	170
Social and behavioral sciences	675	796	845	968	1,023	976	1,046	1,067	1,022
Psychology	61	81	119	125	142	192	191	198	209
Social sciences	614	715	726	843	881	784	855	869	813
Anthropology	1	4	3	0	5	2	2	6	4
Area and ethnic studies	5	9	10	22	19	21	26	33	42
Economics	13	3	10	12	7	23	25	26	24
Linguistics	0	0	0	2	0	0	0	0	0
Political science and public administration	168	240	232	286	302	253	268	268	241
Sociology	24	34	45	54	59	72	81	100	118
Other social sciences	403	425	426	467	489	413	453	436	384
Non-S&E	33,585	37,122	37,156	37,375	39,051	38,106	36,827	35,486	35,127
S&E technologies	5,916	6,265	6,213	5,803	6,181	5,187	4,888	4,405	4,216
Engineering technologies	3,612	3,658	3,714	3,371	3,602	2,720	2,562	2,302	2,260
Health technologies	2,116	2,380	2,269	2,148	2,276	2,098	1,971	1,747	1,592
Science technologies	119	131	160	168	174	238	248	238	257
Other S&E technologies	69	96	70	116	129	131	107	118	107
Native Hawaiian or Other Pacific Islander									
All fields	1,864	1,834	1,914	1,888	1,715	1,648	1,644	1,660	1,607

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
S&E	227	259	289	264	230	199	228	246	226
Engineering	20	17	17	19	14	13	11	17	13
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	0	0	0	0	0	0
Civil	0	1	0	0	0	0	0	1	1
Electrical	2	2	2	2	3	2	6	4	0
Industrial	0	0	0	0	0	0	1	0	0
Materials	0	0	0	0	0	0	0	0	0
Mechanical	0	2	0	0	1	2	0	0	1
Other	18	12	15	17	10	9	4	12	11
Science	207	242	272	245	216	186	217	229	213
Natural sciences	136	167	178	189	154	119	157	156	156
Agricultural sciences	5	15	11	14	16	17	23	33	21
Biological sciences	26	12	16	16	13	9	11	20	21
Earth, atmospheric, and ocean sciences	0	0	0	0	0	0	0	0	0
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	0	0	0	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	99	133	140	148	116	81	115	94	108
Computer sciences	97	132	137	145	112	76	107	85	102
Mathematics and statistics	2	1	3	3	4	5	8	9	6
Physical sciences	6	7	11	11	9	12	8	9	6
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	0	1	0	1	1	1	1	0	1
Physics	0	0	0	0	2	2	1	4	0
Other physical sciences	6	6	11	10	6	9	6	5	5
Social and behavioral sciences	71	75	94	56	62	67	60	73	57
Psychology	5	9	6	9	5	11	12	2	8
Social sciences	66	66	88	47	57	56	48	71	49
Anthropology	1	1	0	0	1	0	2	4	0
Area and ethnic studies	1	3	5	3	4	7	3	2	3
Economics	0	0	0	0	0	3	3	2	2
Linguistics	0	0	0	0	0	0	0	0	0
Political science and public administration	6	3	6	1	6	4	5	7	8
Sociology	2	4	3	4	2	4	6	10	3

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Other social sciences	56	55	74	39	44	38	29	46	33
Non-S&E	1,637	1,575	1,625	1,624	1,485	1,449	1,416	1,414	1,381
S&E technologies	231	232	270	237	209	213	215	192	172
Engineering technologies	88	87	113	82	80	84	100	83	68
Health technologies	135	132	153	146	118	119	109	101	99
Science technologies	3	5	1	3	2	6	1	3	1
Other S&E technologies	5	8	3	6	9	4	5	5	4
White									
All fields	220,100	230,525	228,973	225,571	224,271	215,830	214,681	210,862	208,191
S&E	25,344	26,848	27,232	26,983	26,749	24,469	24,995	25,394	25,630
Engineering	1,550	1,841	1,992	2,223	2,521	2,546	2,691	2,808	2,823
Aerospace	0	2	0	0	1	0	0	2	9
Chemical	12	8	5	8	20	14	11	9	19
Civil	35	39	49	24	38	35	52	29	46
Electrical	78	97	93	132	141	134	157	150	148
Industrial	45	43	39	50	50	47	44	41	44
Materials	5	1	4	7	8	9	6	1	4
Mechanical	62	92	93	111	94	145	123	124	149
Other	1,313	1,559	1,709	1,891	2,169	2,162	2,298	2,452	2,404
Science	23,794	25,007	25,240	24,760	24,228	21,923	22,304	22,586	22,807
Natural sciences	20,711	21,762	21,768	21,138	20,666	18,319	18,655	18,778	18,707
Agricultural sciences	1,197	1,372	1,239	1,224	1,279	1,239	1,337	1,362	1,289
Biological sciences	562	632	607	678	739	821	687	821	844
Earth, atmospheric, and ocean sciences	53	52	62	74	71	69	68	47	60
Atmospheric sciences	5	9	3	5	2	0	0	0	0
Earth sciences	21	27	31	42	44	44	66	47	58
Oceanography	27	16	28	27	25	25	2	0	2
Mathematics and computer sciences	18,091	18,788	18,817	18,040	17,424	14,885	15,219	15,084	15,078
Computer sciences	17,622	18,337	18,277	17,438	16,634	14,099	14,356	14,165	14,024
Mathematics and statistics	469	451	540	602	790	786	863	919	1,054
Physical sciences	808	918	1,043	1,122	1,153	1,305	1,344	1,464	1,436
Astronomy	0	2	0	3	2	2	6	2	5
Chemistry	102	101	120	145	171	174	171	206	226
Physics	91	105	119	144	221	252	292	311	358
Other physical sciences	615	710	804	830	759	877	875	945	847

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Social and behavioral sciences	3,083	3,245	3,472	3,622	3,562	3,604	3,649	3,808	4,100
Psychology	433	501	631	730	740	832	805	845	1,057
Social sciences	2,650	2,744	2,841	2,892	2,822	2,772	2,844	2,963	3,043
Anthropology	39	57	51	74	83	90	104	111	127
Area and ethnic studies	11	5	18	25	39	36	48	61	79
Economics	81	100	116	103	133	181	296	342	478
Linguistics	0	0	0	1	1	1	0	0	3
Political science and public administration	360	437	559	556	543	569	613	633	633
Sociology	89	99	151	153	186	189	200	217	249
Other social sciences	2,070	2,046	1,946	1,980	1,837	1,706	1,583	1,599	1,474
Non-S&E	194,756	203,677	201,741	198,588	197,522	191,361	189,686	185,468	182,561
S&E technologies	33,104	34,276	33,204	31,173	30,526	28,570	28,335	27,480	26,258
Engineering technologies	21,804	21,586	20,851	19,363	19,186	17,718	17,854	17,563	16,569
Health technologies	9,961	11,291	10,907	10,365	9,750	9,265	8,751	8,250	8,077
Science technologies	880	885	920	894	958	1,054	1,169	1,074	1,035
Other S&E technologies	459	514	526	551	632	533	561	593	577
More than one race									
All fields	3,946	5,116	6,994	8,451	9,485	10,742	11,217	12,469	13,760
S&E	411	581	941	1,094	1,278	1,524	1,539	1,720	2,007
Engineering	23	24	53	71	85	124	127	149	179
Aerospace	0	1	0	0	0	0	0	0	1
Chemical	0	0	0	0	3	0	1	1	1
Civil	1	1	2	2	0	1	2	2	0
Electrical	0	0	4	2	6	8	9	8	17
Industrial	0	0	0	1	2	0	0	1	0
Materials	0	0	0	0	0	0	0	0	0
Mechanical	4	6	5	5	3	7	8	7	16
Other	18	16	42	61	71	108	107	130	144
Science	388	557	888	1,023	1,193	1,400	1,412	1,571	1,828
Natural sciences	298	395	652	735	843	965	966	1,067	1,224
Agricultural sciences	12	16	19	25	29	37	30	28	45
Biological sciences	14	21	29	34	43	51	53	73	92
Earth, atmospheric, and ocean sciences	1	0	1	1	1	0	1	2	5
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	1	0	1	0	1	0	1	2	5

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Oceanography	0	0	0	1	0	0	0	0	0
Mathematics and computer sciences	249	322	529	585	666	762	762	816	927
Computer sciences	236	306	494	555	601	682	677	712	792
Mathematics and statistics	13	16	35	30	65	80	85	104	135
Physical sciences	22	36	74	90	104	115	120	148	155
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	2	3	9	18	12	14	18	17	21
Physics	0	5	7	11	24	34	22	35	50
Other physical sciences	20	28	58	61	68	67	80	96	84
Social and behavioral sciences	90	162	236	288	350	435	446	504	604
Psychology	12	20	35	44	83	104	115	127	148
Social sciences	78	142	201	244	267	331	331	377	456
Anthropology	0	4	3	3	5	9	6	11	22
Area and ethnic studies	0	1	5	7	10	12	11	18	31
Economics	4	3	10	6	5	15	23	47	57
Linguistics	0	0	0	1	0	0	0	0	0
Political science and public administration	7	16	24	40	46	53	54	58	64
Sociology	8	9	11	21	27	24	38	50	52
Other social sciences	59	109	148	166	174	218	199	193	230
Non-S&E	3,535	4,535	6,053	7,357	8,207	9,218	9,678	10,749	11,753
S&E technologies	476	643	865	1,006	1,020	1,103	1,115	1,118	1,249
Engineering technologies	258	306	521	585	601	581	604	634	665
Health technologies	203	305	292	324	365	438	433	416	497
Science technologies	6	18	39	51	28	46	48	53	46
Other S&E technologies	9	14	13	46	26	38	30	15	41
Other or unknown race or ethnicity									
All fields	26,916	31,233	23,043	21,749	19,737	17,520	15,291	14,877	15,403
S&E	4,144	5,836	3,096	2,795	2,331	2,070	1,799	1,840	1,801
Engineering	107	162	169	146	186	209	195	217	173
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	1	0	0	0	5	2	3	1	0
Civil	1	2	4	1	2	2	2	2	2
Electrical	12	21	3	17	10	22	12	20	17
Industrial	10	2	8	2	5	8	3	7	5
Materials	0	0	0	0	0	0	1	0	0

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
All fields	6,811	7,123	7,051	7,200	7,760	8,636	9,369	10,496	10,968
S&E	900	971	914	991	1,148	1,289	1,561	1,980	2,064
Engineering	158	200	149	164	182	173	267	323	316
Aerospace	0	0	1	0	0	0	0	0	0
Chemical	6	1	2	1	4	4	8	5	9
Civil	6	7	9	4	1	7	5	10	8
Electrical	9	9	9	12	10	14	11	24	14
Industrial	0	0	0	0	1	1	0	1	0
Materials	0	0	0	0	0	1	0	1	1
Mechanical	12	15	9	24	19	18	27	35	50
Other	125	168	119	123	147	128	216	247	234
Science	742	771	765	827	966	1,116	1,294	1,657	1,748
Natural sciences	636	651	624	707	787	876	1,072	1,319	1,406
Agricultural sciences	6	7	8	13	70	22	11	12	10
Biological sciences	37	36	37	42	31	37	46	54	71
Earth, atmospheric, and ocean sciences	2	2	1	1	1	0	3	1	0
Atmospheric sciences	1	0	0	0	0	0	0	0	0
Earth sciences	1	2	1	1	1	0	3	1	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	438	426	431	453	435	584	705	950	1,014
Computer sciences	383	372	384	401	374	483	580	795	845
Mathematics and statistics	55	54	47	52	61	101	125	155	169
Physical sciences	153	180	147	198	250	233	307	302	311
Astronomy	0	0	0	0	1	0	0	0	0
Chemistry	12	14	7	12	13	5	15	20	19
Physics	5	8	5	14	16	19	24	34	41
Other physical sciences	136	158	135	172	220	209	268	248	251
Social and behavioral sciences	106	120	141	120	179	240	222	338	342
Psychology	12	5	14	12	30	22	32	45	49
Social sciences	94	115	127	108	149	218	190	293	293
Anthropology	0	1	0	0	3	3	1	3	7
Area and ethnic studies	5	0	0	1	1	1	0	7	3
Economics	22	37	32	28	33	77	87	160	142
Linguistics	0	0	0	1	0	0	0	0	0
Political science and public administration	10	12	22	13	10	31	30	35	46

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Sociology	2	6	7	2	4	7	4	8	12
Other social sciences	55	59	66	63	98	99	68	80	83
Non-S&E	5,911	6,152	6,137	6,209	6,612	7,347	7,808	8,516	8,904
S&E technologies	398	397	451	447	373	470	526	466	542
Engineering technologies	227	201	254	253	228	310	362	314	358
Health technologies	153	174	170	180	127	137	133	135	147
Science technologies	18	22	27	14	18	23	31	17	37
Other S&E technologies	0	0	0	0	0	0	0	0	0
Female									
All citizenships, races, and ethnicity									
All fields	585,965	631,193	623,395	618,354	623,780	622,196	617,170	618,385	634,952
S&E	32,531	35,921	37,191	38,223	40,049	41,129	42,866	45,780	49,803
Engineering	437	489	542	590	695	798	952	1,093	1,072
Aerospace	0	0	0	0	2	0	0	1	1
Chemical	7	2	8	9	13	10	14	17	12
Civil	16	23	26	26	12	26	26	24	24
Electrical	27	20	29	26	38	28	36	55	77
Industrial	8	8	8	2	8	4	6	18	9
Materials	1	0	1	3	1	1	0	4	0
Mechanical	15	13	20	18	35	36	39	62	49
Other	363	423	450	506	586	693	831	912	900
Science	32,094	35,432	36,649	37,633	39,354	40,331	41,914	44,687	48,731
Natural sciences	13,629	14,514	14,401	14,303	14,893	14,272	14,974	15,957	17,379
Agricultural sciences	774	941	923	999	1,055	1,145	1,174	1,301	1,316
Biological sciences	2,248	2,671	2,935	3,147	3,382	3,599	3,942	4,406	5,194
Earth, atmospheric, and ocean sciences	32	34	35	42	56	57	50	55	61
Atmospheric sciences	3	0	1	1	1	0	0	0	0
Earth sciences	21	25	27	36	43	50	50	54	60
Oceanography	8	9	7	5	12	7	0	1	1
Mathematics and computer sciences	9,180	9,309	8,788	8,279	8,346	7,247	7,388	7,459	7,828
Computer sciences	8,560	8,830	8,229	7,631	7,564	6,378	6,304	6,204	6,396
Mathematics and statistics	620	479	559	648	782	869	1,084	1,255	1,432
Physical sciences	1,395	1,559	1,720	1,836	2,054	2,224	2,420	2,736	2,980
Astronomy	1	2	1	2	0	2	3	5	7
Chemistry	237	257	312	320	385	423	512	579	624

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physics	66	66	88	127	179	209	245	383	413
Other physical sciences	1,091	1,234	1,319	1,387	1,490	1,590	1,660	1,769	1,936
Social and behavioral sciences	18,465	20,918	22,248	23,330	24,461	26,059	26,940	28,730	31,352
Psychology	2,970	3,621	4,622	5,734	6,686	8,011	8,610	9,567	11,078
Social sciences	15,495	17,297	17,626	17,596	17,775	18,048	18,330	19,163	20,274
Anthropology	164	212	211	258	290	461	493	557	647
Area and ethnic studies	150	126	154	210	217	230	219	299	306
Economics	148	162	200	171	250	355	565	724	908
Linguistics	0	1	2	18	6	8	1	2	5
Political science and public administration	3,781	4,743	5,363	5,603	5,478	5,169	5,145	5,016	4,916
Sociology	641	779	1,170	1,518	1,872	2,451	2,904	3,601	4,293
Other social sciences	10,611	11,274	10,526	9,818	9,662	9,374	9,003	8,964	9,199
Non-S&E	553,434	595,272	586,204	580,131	583,731	581,067	574,304	572,605	585,149
S&E technologies	95,841	107,364	102,007	96,988	92,755	88,729	85,510	80,158	78,048
Engineering technologies	4,921	4,913	4,776	4,285	4,363	4,300	4,366	4,463	4,601
Health technologies	90,041	101,383	96,137	91,531	87,185	83,126	79,612	73,994	71,666
Science technologies	716	852	865	986	993	1,128	1,318	1,421	1,504
Other S&E technologies	163	216	229	186	214	175	214	280	277
U.S. citizen or permanent resident									
All fields	576,144	621,210	613,574	608,441	613,556	611,428	605,601	605,797	621,436
S&E	31,910	35,294	36,518	37,499	39,261	40,247	41,827	44,494	48,300
Engineering	411	450	517	558	649	734	864	988	970
Aerospace	0	0	0	0	2	0	0	1	1
Chemical	4	2	7	7	10	10	9	8	7
Civil	16	21	24	25	12	25	22	22	22
Electrical	26	18	29	24	36	23	34	52	73
Industrial	8	8	8	2	8	4	6	18	9
Materials	1	0	1	3	1	1	0	3	0
Mechanical	15	13	20	14	30	30	29	56	44
Other	341	388	428	483	550	641	764	828	814
Science	31,499	34,844	36,001	36,941	38,612	39,513	40,963	43,506	47,330
Natural sciences	13,279	14,195	14,056	13,929	14,477	13,819	14,443	15,275	16,489
Agricultural sciences	770	936	915	990	1,033	1,139	1,165	1,287	1,308
Biological sciences	2,193	2,614	2,858	3,077	3,321	3,521	3,845	4,290	4,995
Earth, atmospheric, and ocean sciences	32	34	33	42	56	57	47	55	61

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Atmospheric sciences	3	0	1	1	1	0	0	0	0
Earth sciences	21	25	25	36	43	50	47	54	60
Oceanography	8	9	7	5	12	7	0	1	1
Mathematics and computer sciences	8,994	9,159	8,637	8,092	8,139	7,009	7,105	7,080	7,358
Computer sciences	8,394	8,712	8,100	7,487	7,391	6,194	6,107	5,930	6,060
Mathematics and statistics	600	447	537	605	748	815	998	1,150	1,298
Physical sciences	1,290	1,452	1,613	1,728	1,928	2,093	2,281	2,563	2,767
Astronomy	1	2	1	2	0	1	3	5	7
Chemistry	221	238	300	311	373	408	492	559	591
Physics	62	63	85	120	172	202	228	358	391
Other physical sciences	1,006	1,149	1,227	1,295	1,383	1,482	1,558	1,641	1,778
Social and behavioral sciences	18,220	20,649	21,945	23,012	24,135	25,694	26,520	28,231	30,841
Psychology	2,926	3,589	4,574	5,666	6,601	7,931	8,518	9,450	10,939
Social sciences	15,294	17,060	17,371	17,346	17,534	17,763	18,002	18,781	19,902
Anthropology	161	211	209	258	286	458	492	549	645
Area and ethnic studies	144	122	149	201	214	219	213	293	299
Economics	125	141	179	147	218	291	459	585	762
Linguistics	0	1	1	16	6	8	1	2	4
Political science and public administration	3,757	4,709	5,319	5,563	5,431	5,113	5,086	4,956	4,861
Sociology	631	769	1,159	1,507	1,858	2,438	2,887	3,581	4,267
Other social sciences	10,476	11,107	10,355	9,654	9,521	9,236	8,864	8,815	9,064
Non-S&E	544,234	585,916	577,056	570,942	574,295	571,181	563,774	561,303	573,136
S&E technologies	95,280	106,741	101,414	96,479	92,243	88,220	84,911	79,558	77,411
Engineering technologies	4,860	4,850	4,712	4,227	4,279	4,195	4,234	4,357	4,501
Health technologies	89,558	100,845	95,630	91,109	86,775	82,741	79,160	73,519	71,154
Science technologies	699	830	843	957	975	1,109	1,303	1,402	1,479
Other S&E technologies	163	216	229	186	214	175	214	280	277
Hispanic or Latino									
All fields	76,791	92,387	96,645	102,715	111,966	122,217	131,303	140,820	153,910
S&E	4,866	6,178	7,363	8,761	10,088	11,880	13,467	15,441	17,691
Engineering	68	88	110	107	132	157	207	255	229
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	0	0	3	2	0	3	3	0	2
Civil	4	5	7	11	6	11	10	12	7
Electrical	4	6	6	3	7	7	7	10	18

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Industrial	1	0	1	0	3	0	0	3	0
Materials	1	0	0	1	0	0	0	1	0
Mechanical	4	5	5	2	7	6	12	9	10
Other	54	72	88	88	109	130	175	220	192
Science	4,798	6,090	7,253	8,654	9,956	11,723	13,260	15,186	17,462
Natural sciences	1,529	1,903	2,076	2,352	2,583	2,691	3,127	3,625	4,035
Agricultural sciences	39	47	41	42	75	82	84	83	143
Biological sciences	424	654	741	885	1,003	1,098	1,290	1,560	1,819
Earth, atmospheric, and ocean sciences	2	5	5	4	9	12	12	12	19
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	2	5	5	3	9	12	12	12	19
Oceanography	0	0	0	1	0	0	0	0	0
Mathematics and computer sciences	878	923	1,003	1,061	1,080	991	1,185	1,237	1,343
Computer sciences	740	796	852	870	873	730	836	833	928
Mathematics and statistics	138	127	151	191	207	261	349	404	415
Physical sciences	186	274	286	360	416	508	556	733	711
Astronomy	0	0	0	1	0	0	1	0	2
Chemistry	34	58	64	80	81	96	105	167	161
Physics	25	29	33	43	57	88	83	146	146
Other physical sciences	127	187	189	236	278	324	367	420	402
Social and behavioral sciences	3,269	4,187	5,177	6,302	7,373	9,032	10,133	11,561	13,427
Psychology	706	1,056	1,476	2,019	2,587	3,441	3,803	4,443	5,321
Social sciences	2,563	3,131	3,701	4,283	4,786	5,591	6,330	7,118	8,106
Anthropology	35	50	51	74	92	159	185	248	277
Area and ethnic studies	28	29	32	50	40	55	55	89	100
Economics	33	50	61	61	76	96	149	172	237
Linguistics	0	0	1	3	2	1	0	1	2
Political science and public administration	448	531	637	769	880	865	1,069	1,081	1,176
Sociology	209	289	473	721	956	1,341	1,747	2,212	2,660
Other social sciences	1,810	2,182	2,446	2,605	2,740	3,074	3,125	3,315	3,654
Non-S&E	71,925	86,209	89,282	93,954	101,878	110,337	117,836	125,379	136,219
S&E technologies	10,128	13,191	13,313	13,378	13,623	13,889	14,259	14,474	14,770
Engineering technologies	582	592	626	585	620	603	686	700	755
Health technologies	9,435	12,489	12,541	12,642	12,811	13,025	13,277	13,423	13,617
Science technologies	90	90	116	128	166	227	272	289	348

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Other S&E technologies	21	20	30	23	26	34	24	62	50
Not Hispanic or Latino									
All fields	499,353	528,823	516,929	505,726	501,590	489,211	474,298	464,977	467,526
S&E	27,044	29,116	29,155	28,738	29,173	28,367	28,360	29,053	30,609
Engineering	343	362	407	451	517	577	657	733	741
Aerospace	0	0	0	0	2	0	0	1	1
Chemical	4	2	4	5	10	7	6	8	5
Civil	12	16	17	14	6	14	12	10	15
Electrical	22	12	23	21	29	16	27	42	55
Industrial	7	8	7	2	5	4	6	15	9
Materials	0	0	1	2	1	1	0	2	0
Mechanical	11	8	15	12	23	24	17	47	34
Other	287	316	340	395	441	511	589	608	622
Science	26,701	28,754	28,748	28,287	28,656	27,790	27,703	28,320	29,868
Natural sciences	11,750	12,292	11,980	11,577	11,894	11,128	11,316	11,650	12,454
Agricultural sciences	731	889	874	948	958	1,057	1,081	1,204	1,165
Biological sciences	1,769	1,960	2,117	2,192	2,318	2,423	2,555	2,730	3,176
Earth, atmospheric, and ocean sciences	30	29	28	38	47	45	35	43	42
Atmospheric sciences	3	0	1	1	1	0	0	0	0
Earth sciences	19	20	20	33	34	38	35	42	41
Oceanography	8	9	7	4	12	7	0	1	1
Mathematics and computer sciences	8,116	8,236	7,634	7,031	7,059	6,018	5,920	5,843	6,015
Computer sciences	7,654	7,916	7,248	6,617	6,518	5,464	5,271	5,097	5,132
Mathematics and statistics	462	320	386	414	541	554	649	746	883
Physical sciences	1,104	1,178	1,327	1,368	1,512	1,585	1,725	1,830	2,056
Astronomy	1	2	1	1	0	1	2	5	5
Chemistry	187	180	236	231	292	312	387	392	430
Physics	37	34	52	77	115	114	145	212	245
Other physical sciences	879	962	1,038	1,059	1,105	1,158	1,191	1,221	1,376
Social and behavioral sciences	14,951	16,462	16,768	16,710	16,762	16,662	16,387	16,670	17,414
Psychology	2,220	2,533	3,098	3,647	4,014	4,490	4,715	5,007	5,618
Social sciences	12,731	13,929	13,670	13,063	12,748	12,172	11,672	11,663	11,796
Anthropology	126	161	158	184	194	299	307	301	368
Area and ethnic studies	116	93	117	151	174	164	158	204	199
Economics	92	91	118	86	142	195	310	413	525

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Chemistry	2	0	4	1	2	2	3	0	0
Physics	1	1	0	1	1	0	1	0	2
Other physical sciences	19	19	18	23	28	21	16	24	26
Social and behavioral sciences	348	344	351	357	367	326	313	320	325
Psychology	57	72	68	91	104	97	84	82	104
Social sciences	291	272	283	266	263	229	229	238	221
Anthropology	2	4	4	2	3	3	3	5	6
Area and ethnic studies	59	47	49	50	58	51	47	54	56
Economics	2	2	0	0	0	0	0	2	3
Linguistics	0	0	0	0	0	0	0	0	0
Political science and public administration	59	52	69	52	65	68	60	59	65
Sociology	6	13	19	22	17	14	19	19	12
Other social sciences	163	154	142	140	120	93	100	99	79
Non-S&E	5,435	5,767	5,915	5,714	5,518	5,382	5,202	5,199	5,148
S&E technologies	811	933	962	868	821	814	789	701	663
Engineering technologies	71	55	89	69	70	59	74	62	45
Health technologies	731	871	863	795	745	743	704	627	607
Science technologies	6	5	9	4	5	10	9	8	8
Other S&E technologies	3	2	1	0	1	2	2	4	3
Asian									
All fields	22,337	24,280	24,671	25,117	26,233	27,456	28,667	30,565	33,220
S&E	1,722	1,925	2,233	2,344	2,714	3,036	3,310	3,727	4,322
Engineering	29	54	56	63	84	90	110	119	122
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	1	2	1	0	2	1	0	1	0
Civil	0	2	1	1	0	0	1	0	2
Electrical	0	3	1	4	4	2	5	4	15
Industrial	0	0	0	0	0	0	0	1	1
Materials	0	0	0	0	0	0	0	0	0
Mechanical	3	2	8	4	3	2	2	8	9
Other	25	45	45	54	75	85	102	105	95
Science	1,693	1,871	2,177	2,281	2,630	2,946	3,200	3,608	4,200
Natural sciences	851	926	1,010	1,061	1,205	1,331	1,500	1,764	2,046
Agricultural sciences	5	10	9	7	9	5	13	20	15
Biological sciences	264	308	327	345	361	385	433	518	629

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Earth, atmospheric, and ocean sciences	2	2	1	0	1	2	4	7	1
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	2	2	1	0	1	2	4	7	1
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	385	397	443	457	528	615	700	817	897
Computer sciences	284	330	349	353	394	445	484	541	576
Mathematics and statistics	101	67	94	104	134	170	216	276	321
Physical sciences	195	209	230	252	306	324	350	402	504
Astronomy	0	0	0	0	0	0	1	0	0
Chemistry	58	67	64	88	90	100	118	127	162
Physics	6	9	18	22	39	40	46	79	94
Other physical sciences	131	133	148	142	177	184	185	196	248
Social and behavioral sciences	842	945	1,167	1,220	1,425	1,615	1,700	1,844	2,154
Psychology	116	161	245	312	382	483	568	608	703
Social sciences	726	784	922	908	1,043	1,132	1,132	1,236	1,451
Anthropology	11	10	9	13	17	19	25	23	33
Area and ethnic studies	2	6	4	9	6	4	3	10	7
Economics	15	22	25	14	32	73	99	129	196
Linguistics	0	0	0	3	2	3	0	1	1
Political science and public administration	54	61	92	77	104	138	122	138	170
Sociology	42	35	68	102	106	172	151	222	275
Other social sciences	602	650	724	690	776	723	732	713	769
Non-S&E	20,615	22,355	22,438	22,773	23,519	24,420	25,357	26,838	28,898
S&E technologies	2,758	3,354	3,214	3,266	3,097	3,052	3,158	3,177	3,468
Engineering technologies	127	147	147	153	149	142	131	187	214
Health technologies	2,573	3,140	3,003	3,043	2,857	2,825	2,911	2,879	3,125
Science technologies	51	56	55	61	85	83	112	98	119
Other S&E technologies	7	11	9	9	6	2	4	13	10
Black or African American									
All fields	80,803	89,053	85,145	83,915	86,252	85,636	83,700	80,900	80,836
S&E	4,776	5,021	5,095	5,122	5,233	5,028	4,986	5,211	5,214
Engineering	31	35	32	37	33	60	45	77	96
Aerospace	0	0	0	0	0	0	0	0	1
Chemical	0	0	0	0	1	0	0	0	1
Civil	2	1	0	0	2	4	1	2	2

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Electrical	5	3	6	4	2	3	3	9	9
Industrial	1	0	0	0	0	0	0	4	0
Materials	0	0	0	0	0	0	0	0	0
Mechanical	1	0	0	0	1	3	0	4	1
Other	22	31	26	33	27	50	41	58	82
Science	4,745	4,986	5,063	5,085	5,200	4,968	4,941	5,134	5,118
Natural sciences	2,079	2,072	2,117	2,026	2,076	1,732	1,735	1,717	1,902
Agricultural sciences	4	11	6	14	10	17	18	17	17
Biological sciences	183	225	257	258	290	318	305	332	423
Earth, atmospheric, and ocean sciences	0	0	0	1	0	0	0	0	0
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	0	0	1	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	1,661	1,573	1,570	1,488	1,532	1,121	1,079	1,013	1,060
Computer sciences	1,619	1,561	1,543	1,475	1,505	1,087	1,046	989	1,019
Mathematics and statistics	42	12	27	13	27	34	33	24	41
Physical sciences	231	263	284	265	244	276	333	355	402
Astronomy	0	0	0	0	0	0	0	0	1
Chemistry	7	8	18	9	14	17	28	24	25
Physics	4	1	2	2	8	5	5	4	7
Other physical sciences	220	254	264	254	222	254	300	327	369
Social and behavioral sciences	2,666	2,914	2,946	3,059	3,124	3,236	3,206	3,417	3,216
Psychology	253	335	338	462	556	639	651	700	740
Social sciences	2,413	2,579	2,608	2,597	2,568	2,597	2,555	2,717	2,476
Anthropology	4	2	5	7	11	12	12	14	18
Area and ethnic studies	17	9	17	17	12	21	18	35	32
Economics	5	7	8	7	5	5	15	19	18
Linguistics	0	0	0	0	0	1	0	0	0
Political science and public administration	901	1,163	1,312	1,413	1,286	1,349	1,334	1,427	1,224
Sociology	84	109	131	122	177	203	198	292	313
Other social sciences	1,402	1,289	1,135	1,031	1,077	1,006	978	930	871
Non-S&E	76,027	84,032	80,050	78,793	81,019	80,608	78,714	75,689	75,622
S&E technologies	14,535	16,364	15,022	13,215	13,543	13,122	12,818	11,048	10,044
Engineering technologies	707	650	678	572	680	604	593	516	522
Health technologies	13,702	15,548	14,214	12,512	12,720	12,377	12,039	10,320	9,287

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Science technologies	103	116	89	98	102	117	152	169	180
Other S&E technologies	23	50	41	33	41	24	34	43	55
Native Hawaiian or Other Pacific Islander									
All fields	2,885	2,587	2,508	2,438	2,388	2,259	2,249	2,259	2,280
S&E	269	247	244	164	205	190	182	198	210
Engineering	1	6	3	2	2	4	1	3	0
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	0	0	0	0	0	0
Civil	0	1	0	0	0	0	0	1	0
Electrical	0	0	0	1	0	1	0	0	0
Industrial	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0
Mechanical	0	0	0	0	0	0	0	0	0
Other	1	5	3	1	2	3	1	2	0
Science	268	241	241	162	203	186	181	195	210
Natural sciences	100	88	90	62	85	78	62	86	77
Agricultural sciences	10	8	16	11	11	14	10	23	22
Biological sciences	26	13	15	13	21	20	14	21	17
Earth, atmospheric, and ocean sciences	0	0	0	0	1	0	0	0	0
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	0	0	0	1	0	0	0	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	49	62	53	29	43	32	28	35	32
Computer sciences	49	58	53	29	41	30	22	34	28
Mathematics and statistics	0	4	0	0	2	2	6	1	4
Physical sciences	15	5	6	9	9	12	10	7	6
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	1	2	0	2	2	1	0	0	2
Physics	0	0	0	0	2	0	0	1	0
Other physical sciences	14	3	6	7	5	11	10	6	4
Social and behavioral sciences	168	153	151	100	118	108	119	109	133
Psychology	13	10	25	14	15	30	34	26	29
Social sciences	155	143	126	86	103	78	85	83	104
Anthropology	0	1	1	0	1	3	0	1	2
Area and ethnic studies	0	0	6	14	11	12	8	8	12

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Economics	0	0	0	1	3	0	3	3	2
Linguistics	0	0	0	1	0	0	0	0	0
Political science and public administration	20	21	23	12	17	11	22	18	23
Sociology	4	6	7	7	5	13	8	6	15
Other social sciences	131	115	89	51	66	39	44	47	50
Non-S&E	2,616	2,340	2,264	2,274	2,183	2,069	2,067	2,061	2,070
S&E technologies	345	307	299	297	274	284	259	238	214
Engineering technologies	14	15	17	13	15	24	22	11	10
Health technologies	324	284	277	281	250	253	230	222	199
Science technologies	5	6	5	2	5	6	5	4	3
Other S&E technologies	2	2	0	1	4	1	2	1	2
White									
All fields	340,322	355,953	351,972	342,727	337,452	326,830	316,065	306,328	302,931
S&E	16,015	16,817	17,557	17,324	17,310	16,414	16,579	16,376	17,072
Engineering	247	227	274	284	341	368	443	455	428
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	2	0	3	3	6	4	6	4	3
Civil	10	11	15	13	4	9	10	7	11
Electrical	16	3	13	10	20	9	16	25	23
Industrial	4	7	6	2	4	3	6	8	6
Materials	0	0	1	2	1	1	0	2	0
Mechanical	7	4	6	7	16	16	10	31	19
Other	208	202	230	247	290	326	395	378	366
Science	15,768	16,590	17,283	17,040	16,969	16,046	16,136	15,921	16,644
Natural sciences	7,221	7,457	7,392	7,131	7,262	6,757	6,835	6,801	7,054
Agricultural sciences	641	785	756	827	834	924	944	1,035	974
Biological sciences	1,066	1,190	1,279	1,337	1,419	1,446	1,524	1,559	1,748
Earth, atmospheric, and ocean sciences	27	24	25	34	41	37	26	29	31
Atmospheric sciences	3	0	1	1	1	0	0	0	0
Earth sciences	16	15	18	29	30	32	26	28	30
Oceanography	8	9	6	4	10	5	0	1	1
Mathematics and computer sciences	4,948	4,868	4,651	4,223	4,191	3,577	3,494	3,327	3,388
Computer sciences	4,726	4,654	4,420	3,982	3,875	3,285	3,156	2,970	2,972
Mathematics and statistics	222	214	231	241	316	292	338	357	416
Physical sciences	539	590	681	710	777	773	847	851	913

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Astronomy	1	2	1	1	0	1	1	3	3
Chemistry	98	86	125	115	157	159	200	212	203
Physics	21	20	27	45	50	57	76	101	109
Other physical sciences	419	482	528	549	570	556	570	535	598
Social and behavioral sciences	8,547	9,133	9,891	9,909	9,707	9,289	9,301	9,120	9,590
Psychology	1,570	1,672	2,050	2,389	2,496	2,754	2,867	2,979	3,368
Social sciences	6,977	7,461	7,841	7,520	7,211	6,535	6,434	6,141	6,222
Anthropology	91	125	115	127	143	216	228	221	258
Area and ethnic studies	29	23	28	38	50	41	48	44	44
Economics	62	51	74	54	89	96	164	218	253
Linguistics	0	1	0	7	2	3	1	0	1
Political science and public administration	1,681	1,931	2,585	2,739	2,590	2,194	2,142	1,924	1,788
Sociology	243	261	391	418	489	574	637	641	783
Other social sciences	4,871	5,069	4,648	4,137	3,848	3,411	3,214	3,093	3,095
Non-S&E	324,307	339,136	334,415	325,403	320,142	310,416	299,486	289,952	285,859
S&E technologies	57,718	62,443	59,709	56,124	53,735	51,104	48,603	45,145	42,731
Engineering technologies	2,987	2,773	2,772	2,506	2,405	2,426	2,448	2,593	2,638
Health technologies	54,229	59,035	56,292	52,911	50,676	47,982	45,367	41,685	39,244
Science technologies	408	515	515	603	534	596	661	727	710
Other S&E technologies	94	120	130	104	120	100	127	140	139
More than one race									
All fields	6,541	8,610	11,284	12,980	14,805	16,990	17,353	19,368	21,393
S&E	315	529	859	1,060	1,271	1,563	1,571	1,713	1,973
Engineering	2	2	5	19	16	25	21	37	37
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	1	1	0	0	2	1
Civil	0	0	0	0	0	0	0	0	0
Electrical	0	0	0	1	2	1	0	3	3
Industrial	0	0	0	0	0	0	0	1	0
Materials	0	0	0	0	0	0	0	0	0
Mechanical	0	0	1	0	0	1	3	1	4
Other	2	2	4	17	13	23	18	30	29
Science	313	527	854	1,041	1,255	1,538	1,550	1,676	1,936
Natural sciences	123	195	264	326	413	440	515	565	670
Agricultural sciences	9	10	15	15	19	31	39	37	51

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Biological sciences	20	34	62	60	86	102	139	148	196
Earth, atmospheric, and ocean sciences	1	0	1	1	2	2	1	1	7
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	1	0	1	1	0	1	1	1	7
Oceanography	0	0	0	0	2	1	0	0	0
Mathematics and computer sciences	72	120	148	205	238	221	252	280	282
Computer sciences	64	116	134	183	209	192	218	221	218
Mathematics and statistics	8	4	14	22	29	29	34	59	64
Physical sciences	21	31	38	45	68	84	84	99	134
Astronomy	0	0	0	0	0	0	0	1	1
Chemistry	2	7	9	4	17	19	24	14	29
Physics	1	0	3	3	7	10	15	19	22
Other physical sciences	18	24	26	38	44	55	45	65	82
Social and behavioral sciences	190	332	590	715	842	1,098	1,035	1,111	1,266
Psychology	41	65	134	182	250	267	321	354	465
Social sciences	149	267	456	533	592	831	714	757	801
Anthropology	5	6	13	22	11	30	30	29	41
Area and ethnic studies	3	3	9	17	33	31	25	47	37
Economics	0	1	3	0	5	18	20	21	40
Linguistics	0	0	0	0	0	0	0	0	0
Political science and public administration	30	47	98	105	130	192	149	146	174
Sociology	7	15	28	56	69	79	81	130	139
Other social sciences	104	195	305	333	344	481	409	384	370
Non-S&E	6,226	8,081	10,425	11,920	13,534	15,427	15,782	17,655	19,420
S&E technologies	936	1,283	1,614	1,611	1,771	2,078	2,016	2,109	2,195
Engineering technologies	71	78	122	113	111	150	138	139	162
Health technologies	850	1,187	1,460	1,459	1,615	1,886	1,817	1,903	1,949
Science technologies	11	12	25	27	35	33	47	56	70
Other S&E technologies	4	6	7	12	10	9	14	11	14
Other or unknown race or ethnicity									
All fields	40,469	42,013	34,839	32,243	28,351	24,131	20,567	19,830	21,174
S&E	3,386	4,017	2,572	2,132	1,849	1,609	1,237	1,300	1,274
Engineering	27	29	25	37	33	25	29	37	46
Aerospace	0	0	0	0	2	0	0	1	0
Chemical	1	0	0	0	0	2	0	1	0

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Civil	0	1	0	0	0	1	0	0	0
Electrical	1	2	3	1	1	0	3	1	3
Industrial	2	1	1	0	1	1	0	1	2
Materials	0	0	0	0	0	0	0	0	0
Mechanical	0	2	0	1	3	2	1	3	1
Other	23	23	21	35	26	19	25	30	40
Science	3,359	3,988	2,547	2,095	1,816	1,584	1,208	1,263	1,228
Natural sciences	1,169	1,347	875	745	637	594	495	514	498
Agricultural sciences	34	31	36	33	31	31	26	34	42
Biological sciences	174	143	123	127	94	109	90	102	107
Earth, atmospheric, and ocean sciences	0	2	1	1	2	1	3	4	1
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	2	0	1	2	0	3	4	1
Oceanography	0	0	1	0	0	1	0	0	0
Mathematics and computer sciences	880	1,111	649	522	433	360	295	282	279
Computer sciences	800	1,097	634	497	403	337	278	260	250
Mathematics and statistics	80	14	15	25	30	23	17	22	29
Physical sciences	81	60	66	62	77	93	81	92	69
Astronomy	0	0	0	0	0	0	0	1	0
Chemistry	19	10	16	12	10	14	14	15	9
Physics	4	3	2	4	8	2	2	8	11
Other physical sciences	58	47	48	46	59	77	65	68	49
Social and behavioral sciences	2,190	2,641	1,672	1,350	1,179	990	713	749	730
Psychology	170	218	238	197	211	220	190	258	209
Social sciences	2,020	2,423	1,434	1,153	968	770	523	491	521
Anthropology	13	13	11	13	8	16	9	8	10
Area and ethnic studies	6	5	4	6	4	4	9	6	11
Economics	8	8	8	10	8	3	9	21	13
Linguistics	0	0	0	2	0	0	0	0	0
Political science and public administration	564	903	503	396	359	296	188	163	241
Sociology	36	41	42	59	39	42	46	59	70
Other social sciences	1,393	1,453	866	667	550	409	262	234	176
Non-S&E	37,083	37,996	32,267	30,111	26,502	22,522	19,330	18,530	19,900
S&E technologies	8,049	8,866	7,281	7,720	5,379	3,877	3,009	2,666	3,326
Engineering technologies	301	540	261	216	229	187	142	149	155

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Health technologies	7,714	8,291	6,980	7,466	5,101	3,650	2,815	2,460	3,126
Science technologies	25	30	29	34	43	37	45	51	41
Other S&E technologies	9	5	11	4	6	3	7	6	4
Temporary visa holder									
All fields	9,821	9,983	9,821	9,913	10,224	10,768	11,569	12,588	13,516
S&E	621	627	673	724	788	882	1,039	1,286	1,503
Engineering	26	39	25	32	46	64	88	105	102
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	3	0	1	2	3	0	5	9	5
Civil	0	2	2	1	0	1	4	2	2
Electrical	1	2	0	2	2	5	2	3	4
Industrial	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	1	0
Mechanical	0	0	0	4	5	6	10	6	5
Other	22	35	22	23	36	52	67	84	86
Science	595	588	648	692	742	818	951	1,181	1,401
Natural sciences	350	319	345	374	416	453	531	682	890
Agricultural sciences	4	5	8	9	22	6	9	14	8
Biological sciences	55	57	77	70	61	78	97	116	199
Earth, atmospheric, and ocean sciences	0	0	2	0	0	0	3	0	0
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	0	2	0	0	0	3	0	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	186	150	151	187	207	238	283	379	470
Computer sciences	166	118	129	144	173	184	197	274	336
Mathematics and statistics	20	32	22	43	34	54	86	105	134
Physical sciences	105	107	107	108	126	131	139	173	213
Astronomy	0	0	0	0	0	1	0	0	0
Chemistry	16	19	12	9	12	15	20	20	33
Physics	4	3	3	7	7	7	17	25	22
Other physical sciences	85	85	92	92	107	108	102	128	158
Social and behavioral sciences	245	269	303	318	326	365	420	499	511
Psychology	44	32	48	68	85	80	92	117	139
Social sciences	201	237	255	250	241	285	328	382	372
Anthropology	3	1	2	0	4	3	1	8	2

Table SHED-3

Associate's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Area and ethnic studies	6	4	5	9	3	11	6	6	7
Economics	23	21	21	24	32	64	106	139	146
Linguistics	0	0	1	2	0	0	0	0	1
Political science and public administration	24	34	44	40	47	56	59	60	55
Sociology	10	10	11	11	14	13	17	20	26
Other social sciences	135	167	171	164	141	138	139	149	135
Non-S&E	9,200	9,356	9,148	9,189	9,436	9,886	10,530	11,302	12,013
S&E technologies	561	623	593	509	512	509	599	600	637
Engineering technologies	61	63	64	58	84	105	132	106	100
Health technologies	483	538	507	422	410	385	452	475	512
Science technologies	17	22	22	29	18	19	15	19	25
Other S&E technologies	0	0	0	0	0	0	0	0	0

Note(s):

Racial or ethnic breakouts include U.S. citizens and permanent residents only; temporary visa holder includes all racial or ethnic groups. Hispanic may be any race, and 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, Table Builder.

Science and Engineering Indicators

Table SHED-4

Certificates awarded for selected levels, by institutional Carnegie Classification and field: 2019

(Number)

Degree level and field	All institutions	Doctoral universities	Master's colleges and universities	Baccalaureate colleges	Mixed baccalaureate/ associate's colleges	Special focus 4-year institutions	Associate's colleges	Special focus 2-year institutions	Other or not applicable
Awards of less than 1 academic year	444,461	25,579	9,527	3,166	69,700	2,878	310,586	17,977	5,048
S&E	40,829	7,272	1,574	304	6,786	43	23,368	179	1,303
Non-S&E	403,632	18,307	7,953	2,862	62,914	2,835	287,218	17,798	3,745
S&E technologies	147,009	1,902	1,843	1,424	17,338	1,545	109,200	11,781	1,976
Engineering technologies	45,507	491	803	111	4,344	100	37,224	2,092	342
Health technologies	99,679	1,385	1,020	1,305	11,697	1,445	71,517	9,676	1,634
Science technologies	1,767	0	4	0	1,297	0	453	13	0
Other S&E technologies	56	26	16	8	0	0	6	0	0
Awards of at least 1 academic year but less than 2 academic years	312,489	4,366	5,481	2,330	36,875	8,291	213,879	32,652	8,615
S&E	9,534	864	422	67	1,429	91	6,398	195	68
Non-S&E	302,955	3,502	5,059	2,263	35,446	8,200	207,481	32,457	8,547
S&E technologies	110,773	769	2,716	1,419	13,491	6,048	58,848	22,546	4,936
Engineering technologies	19,987	76	157	86	1,652	427	14,617	2,533	439
Health technologies	89,321	693	2,558	1,333	11,600	5,621	43,044	19,975	4,497
Science technologies	1,464	0	0	0	239	0	1,187	38	0
Other S&E technologies	1	0	1	0	0	0	0	0	0

Note(s):

Carnegie institution type corresponds to the 2018 Carnegie Classification of Institutions of Higher Education.

Source(s):

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

Science and Engineering Indicators

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Both sexes									
All citizenships, races, and ethnicity									
All fields	1,734,229	1,811,404	1,861,034	1,890,941	1,916,129	1,942,140	1,973,112	2,001,610	2,034,071
S&E	554,365	589,567	615,475	635,915	650,057	666,157	684,557	707,158	724,947
Engineering	78,099	83,263	87,812	93,950	99,906	108,976	117,927	124,328	129,185
Aerospace	3,342	3,545	3,490	3,565	3,871	3,874	4,021	4,132	4,825
Chemical	7,535	8,344	8,917	9,706	10,837	12,125	13,327	13,968	13,263
Civil	14,840	15,175	15,882	15,551	15,374	16,013	16,398	16,919	17,784
Electrical	16,485	17,380	18,412	19,991	21,357	23,416	25,715	26,918	28,385
Industrial	4,293	4,689	4,779	5,323	5,813	6,339	6,906	7,275	7,534
Materials	1,140	1,322	1,448	1,513	1,687	1,891	1,968	1,928	2,022
Mechanical	19,470	20,889	22,300	24,679	26,742	29,589	32,747	35,587	37,211
Other	10,994	11,919	12,584	13,622	14,225	15,729	16,845	17,601	18,161
Science	476,266	506,304	527,663	541,965	550,151	557,181	566,630	582,830	595,762
Natural sciences	202,517	219,093	233,032	245,624	257,665	269,121	281,498	296,049	309,119
Agricultural sciences	22,759	25,060	27,609	28,796	29,460	30,540	31,089	32,462	33,472
Biological sciences	93,654	99,894	104,703	109,520	115,124	119,073	121,742	125,068	127,415
Earth, atmospheric, and ocean sciences	5,299	5,865	6,291	6,730	7,155	7,283	7,320	7,431	6,997
Atmospheric sciences	678	735	749	751	734	714	685	714	635
Earth sciences	4,410	4,904	5,302	5,724	6,162	6,336	6,420	6,536	6,147
Oceanography	211	226	240	255	259	233	215	181	215
Mathematics and computer sciences	61,607	67,853	73,153	78,356	83,445	89,479	97,937	107,432	117,673
Computer sciences	43,586	48,034	51,586	56,130	60,309	65,186	72,129	80,271	89,421
Mathematics and statistics	18,021	19,819	21,567	22,226	23,136	24,293	25,808	27,161	28,252
Physical sciences	19,198	20,421	21,276	22,222	22,481	22,746	23,410	23,656	23,562
Astronomy	364	392	357	429	393	453	536	591	642
Chemistry	12,888	13,714	14,024	14,682	14,669	14,672	15,123	14,948	14,638
Physics	5,221	5,557	6,107	6,283	6,681	6,968	7,117	7,534	7,703
Other physical sciences	725	758	788	828	738	653	634	583	579
Social and behavioral sciences	273,749	287,211	294,631	296,341	292,486	288,060	285,132	286,781	286,643
Psychology	101,568	109,782	115,373	118,405	118,768	118,646	117,441	117,574	117,638
Social sciences	172,181	177,429	179,258	177,936	173,718	169,414	167,691	169,207	169,005
Anthropology	10,022	11,128	11,536	11,302	10,165	9,330	8,566	8,621	8,385
Area and ethnic studies	7,817	7,860	7,585	7,104	6,620	6,601	6,433	6,420	6,492
Economics	30,013	29,457	30,034	31,585	34,344	35,045	35,638	36,902	36,785

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
History of science	138	122	119	133	131	111	117	100	112
Linguistics	1,808	2,109	2,184	2,225	2,275	2,289	2,299	2,305	2,316
Political science and public administration	59,752	60,801	60,244	59,260	56,814	54,822	54,875	55,805	57,307
Sociology	29,614	30,602	31,029	30,672	29,543	28,520	27,929	27,838	27,288
Other social sciences	33,017	35,350	36,527	35,655	33,826	32,696	31,834	31,216	30,320
Non-S&E	1,179,864	1,221,837	1,245,559	1,255,026	1,266,072	1,275,983	1,288,555	1,294,452	1,309,124
U.S. citizen or permanent resident									
All fields	1,681,535	1,751,821	1,796,133	1,821,458	1,840,490	1,857,833	1,881,684	1,903,321	1,932,187
S&E	533,567	565,685	588,952	606,611	617,418	629,003	642,843	660,390	675,226
Engineering	72,848	76,932	81,065	86,394	91,351	98,859	106,118	111,008	115,439
Aerospace	3,097	3,278	3,217	3,269	3,599	3,574	3,724	3,814	4,516
Chemical	6,771	7,445	7,914	8,643	9,667	10,793	11,788	12,175	11,561
Civil	14,281	14,466	15,079	14,601	14,312	14,705	14,894	15,232	15,976
Electrical	14,786	15,381	16,396	17,830	18,847	20,596	22,622	23,438	24,800
Industrial	3,847	4,108	4,195	4,639	5,057	5,454	5,883	6,193	6,366
Materials	1,070	1,242	1,328	1,364	1,525	1,669	1,727	1,710	1,802
Mechanical	18,590	19,770	21,041	23,209	24,987	27,374	29,824	32,202	33,644
Other	10,406	11,242	11,895	12,839	13,357	14,694	15,656	16,244	16,774
Science	460,719	488,753	507,887	520,217	526,067	530,144	536,725	549,382	559,787
Natural sciences	195,008	210,516	223,434	235,251	246,079	255,644	265,714	277,638	288,503
Agricultural sciences	22,417	24,686	27,094	28,227	28,856	29,877	30,375	31,609	32,533
Biological sciences	90,873	97,024	101,663	106,601	112,089	115,673	118,051	121,027	123,104
Earth, atmospheric, and ocean sciences	5,177	5,749	6,110	6,504	6,936	7,040	7,066	7,113	6,665
Atmospheric sciences	673	726	733	736	721	699	668	703	622
Earth sciences	4,293	4,800	5,140	5,517	5,956	6,118	6,187	6,236	5,832
Oceanography	211	223	237	251	259	223	211	174	211
Mathematics and computer sciences	58,223	63,601	68,379	72,834	76,942	81,625	88,310	95,830	104,405
Computer sciences	41,558	45,672	49,204	53,311	56,940	61,100	66,988	73,474	81,454
Mathematics and statistics	16,665	17,929	19,175	19,523	20,002	20,525	21,322	22,356	22,951
Physical sciences	18,318	19,456	20,188	21,085	21,256	21,429	21,912	22,059	21,796
Astronomy	348	384	345	401	377	424	500	547	592
Chemistry	12,315	13,115	13,331	13,937	13,907	13,852	14,230	14,054	13,691
Physics	4,966	5,231	5,758	5,952	6,267	6,527	6,567	6,895	6,956
Other physical sciences	689	726	754	795	705	626	615	563	557
Social and behavioral sciences	265,711	278,237	284,453	284,966	279,988	274,500	271,011	271,744	271,284

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Psychology	99,892	107,776	113,144	115,945	116,211	115,750	114,384	114,314	114,209
Social sciences	165,819	170,461	171,309	169,021	163,777	158,750	156,627	157,430	157,075
Anthropology	9,924	11,006	11,431	11,151	10,028	9,190	8,430	8,459	8,209
Area and ethnic studies	7,607	7,630	7,387	6,850	6,377	6,324	6,128	6,056	6,175
Economics	26,690	25,672	25,495	26,421	28,437	28,655	29,074	30,095	29,825
History of science	137	121	117	130	129	108	115	97	105
Linguistics	1,723	2,004	2,094	2,128	2,167	2,177	2,178	2,157	2,171
Political science and public administration	58,051	59,128	58,442	57,410	54,821	52,750	52,713	53,427	55,058
Sociology	29,243	30,163	30,544	30,125	28,959	27,899	27,228	27,085	26,422
Other social sciences	32,444	34,737	35,799	34,806	32,859	31,647	30,761	30,054	29,110
Non-S&E	1,147,968	1,186,136	1,207,181	1,214,847	1,223,072	1,228,830	1,238,841	1,242,931	1,256,961
Hispanic or Latino									
All fields	159,936	176,719	194,919	211,710	226,900	245,081	258,195	277,429	294,537
S&E	51,421	58,165	65,726	73,179	79,203	86,279	91,550	99,892	106,337
Engineering	6,317	7,173	7,907	8,984	9,960	11,337	12,613	13,514	14,803
Aerospace	217	279	288	345	396	420	411	448	587
Chemical	478	606	638	714	814	1,067	1,150	1,288	1,280
Civil	1,428	1,586	1,802	1,825	1,887	2,043	2,213	2,184	2,441
Electrical	1,548	1,710	1,790	2,150	2,303	2,593	2,986	3,094	3,391
Industrial	463	540	543	605	646	699	777	832	843
Materials	50	91	81	104	99	141	124	138	164
Mechanical	1,516	1,712	1,970	2,345	2,765	3,098	3,551	4,002	4,388
Other	617	649	795	896	1,050	1,276	1,401	1,528	1,709
Science	45,104	50,992	57,819	64,195	69,243	74,942	78,937	86,378	91,534
Natural sciences	15,231	17,542	20,142	23,072	25,845	28,697	31,096	35,064	38,460
Agricultural sciences	1,236	1,407	1,815	1,983	2,236	2,570	2,791	3,061	3,560
Biological sciences	7,761	8,891	10,081	11,542	13,171	14,571	15,361	17,633	18,858
Earth, atmospheric, and ocean sciences	265	323	390	495	539	640	685	721	774
Atmospheric sciences	29	36	33	56	46	39	46	40	48
Earth sciences	223	274	343	422	466	578	619	667	703
Oceanography	13	13	14	17	27	23	20	14	23
Mathematics and computer sciences	4,691	5,493	6,223	7,224	7,849	8,778	9,872	10,926	12,405
Computer sciences	3,539	4,216	4,719	5,469	5,912	6,612	7,544	8,370	9,691
Mathematics and statistics	1,152	1,277	1,504	1,755	1,937	2,166	2,328	2,556	2,714
Physical sciences	1,278	1,428	1,633	1,828	2,050	2,138	2,387	2,723	2,863

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Astronomy	26	21	31	36	38	45	54	67	70
Chemistry	940	1,052	1,104	1,273	1,416	1,455	1,641	1,803	1,851
Physics	276	314	426	446	528	585	635	786	867
Other physical sciences	36	41	72	73	68	53	57	67	75
Social and behavioral sciences	29,873	33,450	37,677	41,123	43,398	46,245	47,841	51,314	53,074
Psychology	11,667	13,359	15,389	17,580	18,799	20,321	20,675	22,926	23,474
Social sciences	18,206	20,091	22,288	23,543	24,599	25,924	27,166	28,388	29,600
Anthropology	1,056	1,200	1,394	1,503	1,548	1,594	1,505	1,556	1,601
Area and ethnic studies	1,185	1,261	1,294	1,305	1,229	1,334	1,407	1,482	1,556
Economics	1,835	2,047	2,205	2,396	2,821	2,958	3,129	3,547	3,655
History of science	13	8	7	9	12	6	14	4	9
Linguistics	165	216	254	288	312	343	387	399	415
Political science and public administration	6,422	6,893	7,607	7,935	8,068	8,312	8,833	9,120	9,730
Sociology	4,065	4,603	5,198	5,438	5,699	6,320	6,622	6,962	7,145
Other social sciences	3,465	3,863	4,329	4,669	4,910	5,057	5,269	5,318	5,489
Non-S&E	108,515	118,554	129,193	138,531	147,697	158,802	166,645	177,537	188,200
Not Hispanic or Latino									
All fields	1,521,599	1,575,102	1,601,214	1,609,748	1,613,590	1,612,752	1,623,489	1,625,892	1,637,650
S&E	482,146	507,520	523,226	533,432	538,215	542,724	551,293	560,498	568,889
Engineering	66,531	69,759	73,158	77,410	81,391	87,522	93,505	97,494	100,636
Aerospace	2,880	2,999	2,929	2,924	3,203	3,154	3,313	3,366	3,929
Chemical	6,293	6,839	7,276	7,929	8,853	9,726	10,638	10,887	10,281
Civil	12,853	12,880	13,277	12,776	12,425	12,662	12,681	13,048	13,535
Electrical	13,238	13,671	14,606	15,680	16,544	18,003	19,636	20,344	21,409
Industrial	3,384	3,568	3,652	4,034	4,411	4,755	5,106	5,361	5,523
Materials	1,020	1,151	1,247	1,260	1,426	1,528	1,603	1,572	1,638
Mechanical	17,074	18,058	19,071	20,864	22,222	24,276	26,273	28,200	29,256
Other	9,789	10,593	11,100	11,943	12,307	13,418	14,255	14,716	15,065
Science	415,615	437,761	450,068	456,022	456,824	455,202	457,788	463,004	468,253
Natural sciences	179,777	192,974	203,292	212,179	220,234	226,947	234,618	242,574	250,043
Agricultural sciences	21,181	23,279	25,279	26,244	26,620	27,307	27,584	28,548	28,973
Biological sciences	83,112	88,133	91,582	95,059	98,918	101,102	102,690	103,394	104,246
Earth, atmospheric, and ocean sciences	4,912	5,426	5,720	6,009	6,397	6,400	6,381	6,392	5,891
Atmospheric sciences	644	690	700	680	675	660	622	663	574
Earth sciences	4,070	4,526	4,797	5,095	5,490	5,540	5,568	5,569	5,129

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Oceanography	198	210	223	234	232	200	191	160	188
Mathematics and computer sciences	53,532	58,108	62,156	65,610	69,093	72,847	78,438	84,904	92,000
Computer sciences	38,019	41,456	44,485	47,842	51,028	54,488	59,444	65,104	71,763
Mathematics and statistics	15,513	16,652	17,671	17,768	18,065	18,359	18,994	19,800	20,237
Physical sciences	17,040	18,028	18,555	19,257	19,206	19,291	19,525	19,336	18,933
Astronomy	322	363	314	365	339	379	446	480	522
Chemistry	11,375	12,063	12,227	12,664	12,491	12,397	12,589	12,251	11,840
Physics	4,690	4,917	5,332	5,506	5,739	5,942	5,932	6,109	6,089
Other physical sciences	653	685	682	722	637	573	558	496	482
Social and behavioral sciences	235,838	244,787	246,776	243,843	236,590	228,255	223,170	220,430	218,210
Psychology	88,225	94,417	97,755	98,365	97,412	95,429	93,709	91,388	90,735
Social sciences	147,613	150,370	149,021	145,478	139,178	132,826	129,461	129,042	127,475
Anthropology	8,868	9,806	10,037	9,648	8,480	7,596	6,925	6,903	6,608
Area and ethnic studies	6,422	6,369	6,093	5,545	5,148	4,990	4,721	4,574	4,619
Economics	24,855	23,625	23,290	24,025	25,616	25,697	25,945	26,548	26,170
History of science	124	113	110	121	117	102	101	93	96
Linguistics	1,558	1,788	1,840	1,840	1,855	1,834	1,791	1,758	1,756
Political science and public administration	51,629	52,235	50,835	49,475	46,753	44,438	43,880	44,307	45,328
Sociology	25,178	25,560	25,346	24,687	23,260	21,579	20,606	20,123	19,277
Other social sciences	28,979	30,874	31,470	30,137	27,949	26,590	25,492	24,736	23,621
Non-S&E	1,039,453	1,067,582	1,077,988	1,076,316	1,075,375	1,070,028	1,072,196	1,065,394	1,068,761
American Indian or Alaska Native									
All fields	11,126	10,740	10,768	10,211	9,697	9,316	9,194	8,838	8,864
S&E	3,445	3,411	3,446	3,192	2,972	2,930	2,844	2,844	2,720
Engineering	322	309	356	320	316	314	295	358	322
Aerospace	16	17	10	11	12	6	11	7	10
Chemical	29	31	34	31	40	38	38	44	31
Civil	89	61	81	72	46	67	60	60	56
Electrical	55	56	69	62	49	42	48	75	52
Industrial	10	16	20	16	19	11	21	22	17
Materials	3	5	1	1	2	6	3	4	5
Mechanical	84	78	82	70	97	92	67	107	105
Other	36	45	59	57	51	52	47	39	46
Science	3,123	3,102	3,090	2,872	2,656	2,616	2,549	2,486	2,398
Natural sciences	1,171	1,212	1,233	1,177	1,111	1,062	1,085	1,125	1,045

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Agricultural sciences	182	213	225	193	206	182	205	231	195
Biological sciences	546	576	528	493	435	473	452	452	436
Earth, atmospheric, and ocean sciences	31	47	33	43	44	36	37	46	29
Atmospheric sciences	2	3	5	3	5	1	2	3	2
Earth sciences	29	44	26	39	36	31	31	42	27
Oceanography	0	0	2	1	3	4	4	1	0
Mathematics and computer sciences	310	289	344	339	349	280	316	311	301
Computer sciences	226	231	267	278	281	229	255	250	248
Mathematics and statistics	84	58	77	61	68	51	61	61	53
Physical sciences	102	87	103	109	77	91	75	85	84
Astronomy	1	3	5	0	0	0	1	0	3
Chemistry	68	59	69	79	64	65	52	62	51
Physics	31	23	25	27	10	23	16	21	25
Other physical sciences	2	2	4	3	3	3	6	2	5
Social and behavioral sciences	1,952	1,890	1,857	1,695	1,545	1,554	1,464	1,361	1,353
Psychology	651	711	672	660	601	629	609	547	561
Social sciences	1,301	1,179	1,185	1,035	944	925	855	814	792
Anthropology	102	103	107	72	71	65	61	60	41
Area and ethnic studies	186	167	203	173	162	170	153	178	168
Economics	114	87	99	75	84	90	61	63	66
History of science	0	1	0	1	0	0	0	0	1
Linguistics	16	7	12	7	12	8	10	4	5
Political science and public administration	387	332	334	301	260	244	221	219	183
Sociology	228	228	211	202	165	202	183	143	168
Other social sciences	268	254	219	204	190	146	166	147	160
Non-S&E	7,681	7,329	7,322	7,019	6,725	6,386	6,350	5,994	6,144
Asian									
All fields	109,009	113,736	117,932	120,037	122,822	128,048	134,132	141,730	146,767
S&E	51,139	53,264	56,080	57,374	59,092	62,101	65,757	70,455	73,600
Engineering	8,658	9,081	9,947	10,078	10,734	11,821	12,794	13,565	14,288
Aerospace	325	343	389	334	395	350	423	394	496
Chemical	898	1,040	1,125	1,133	1,344	1,409	1,546	1,644	1,545
Civil	1,227	1,214	1,344	1,218	1,223	1,253	1,286	1,272	1,387
Electrical	2,449	2,488	2,772	2,899	3,110	3,602	4,033	4,350	4,641
Industrial	390	390	420	419	455	522	543	576	582

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Materials	145	157	202	183	224	216	230	246	239
Mechanical	1,566	1,686	1,876	1,946	2,079	2,328	2,542	2,774	3,054
Other	1,658	1,763	1,819	1,946	1,904	2,141	2,191	2,309	2,344
Science	42,481	44,183	46,133	47,296	48,358	50,280	52,963	56,890	59,312
Natural sciences	22,949	24,620	26,165	27,624	29,244	31,435	33,863	37,272	39,503
Agricultural sciences	898	1,039	1,115	1,123	1,156	1,121	1,139	1,253	1,285
Biological sciences	14,496	15,403	15,791	16,125	16,658	17,142	17,560	18,116	18,253
Earth, atmospheric, and ocean sciences	148	185	210	213	247	256	255	248	275
Atmospheric sciences	11	19	13	16	22	22	24	13	17
Earth sciences	129	150	188	180	213	227	225	223	243
Oceanography	8	16	9	17	12	7	6	12	15
Mathematics and computer sciences	5,244	5,668	6,619	7,564	8,670	10,423	12,408	15,084	17,247
Computer sciences	3,439	3,823	4,520	5,364	6,326	7,933	9,713	11,898	13,922
Mathematics and statistics	1,805	1,845	2,099	2,200	2,344	2,490	2,695	3,186	3,325
Physical sciences	2,163	2,325	2,430	2,599	2,513	2,493	2,501	2,571	2,443
Astronomy	20	33	32	38	27	37	36	38	43
Chemistry	1,769	1,856	1,931	2,099	1,980	1,952	1,962	1,936	1,803
Physics	339	377	425	402	462	466	470	555	568
Other physical sciences	35	59	42	60	44	38	33	42	29
Social and behavioral sciences	19,532	19,563	19,968	19,672	19,114	18,845	19,100	19,618	19,809
Psychology	6,207	6,678	6,973	7,099	6,940	7,082	7,254	7,328	7,322
Social sciences	13,325	12,885	12,995	12,573	12,174	11,763	11,846	12,290	12,487
Anthropology	657	678	737	714	620	576	569	572	501
Area and ethnic studies	809	883	819	714	638	596	580	549	596
Economics	4,424	4,151	4,112	4,161	4,248	4,253	4,382	4,600	4,524
History of science	13	13	13	15	9	12	16	17	12
Linguistics	193	219	213	223	236	220	252	238	290
Political science and public administration	3,690	3,533	3,576	3,317	3,154	2,896	2,826	2,998	3,173
Sociology	1,808	1,750	1,801	1,753	1,686	1,594	1,559	1,614	1,653
Other social sciences	1,731	1,658	1,724	1,676	1,583	1,616	1,662	1,702	1,738
Non-S&E	57,870	60,472	61,852	62,663	63,730	65,947	68,375	71,275	73,167
Black or African American									
All fields	161,005	172,869	179,517	180,812	182,778	185,880	188,414	188,072	189,471
S&E	46,341	49,696	52,165	52,647	53,649	54,432	55,651	56,084	57,187
Engineering	3,097	3,218	3,505	3,599	3,852	4,206	4,443	4,788	4,971

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Aerospace	88	73	91	82	113	116	116	106	126
Chemical	288	337	359	390	401	449	492	538	472
Civil	510	513	542	534	575	588	607	624	656
Electrical	980	996	1,147	1,147	1,154	1,182	1,269	1,379	1,391
Industrial	245	258	236	255	273	303	317	324	329
Materials	29	36	33	39	41	47	45	39	55
Mechanical	585	610	694	668	793	912	1,003	1,109	1,214
Other	372	395	403	484	502	609	594	669	728
Science	43,244	46,478	48,660	49,048	49,797	50,226	51,208	51,296	52,216
Natural sciences	13,721	15,016	16,143	16,472	17,286	17,795	18,963	19,620	20,933
Agricultural sciences	575	704	744	852	856	932	982	1,024	1,076
Biological sciences	6,677	7,073	7,494	7,663	8,250	8,804	9,344	9,365	9,882
Earth, atmospheric, and ocean sciences	105	119	134	143	166	155	165	207	201
Atmospheric sciences	23	18	21	19	14	22	14	34	25
Earth sciences	76	95	106	116	143	125	145	168	171
Oceanography	6	6	7	8	9	8	6	5	5
Mathematics and computer sciences	5,239	5,815	6,512	6,494	6,762	6,665	7,103	7,647	8,429
Computer sciences	4,418	4,851	5,497	5,472	5,746	5,658	6,068	6,558	7,362
Mathematics and statistics	821	964	1,015	1,022	1,016	1,007	1,035	1,089	1,067
Physical sciences	1,125	1,305	1,259	1,320	1,252	1,239	1,369	1,377	1,345
Astronomy	5	3	5	3	10	10	11	8	15
Chemistry	918	1,101	1,044	1,068	1,009	963	1,084	1,123	1,042
Physics	149	142	148	195	172	217	224	210	247
Other physical sciences	53	59	62	54	61	49	50	36	41
Social and behavioral sciences	29,523	31,462	32,517	32,576	32,511	32,431	32,245	31,676	31,283
Psychology	11,643	12,712	13,413	13,617	14,022	14,187	14,256	13,936	14,018
Social sciences	17,880	18,750	19,104	18,959	18,489	18,244	17,989	17,740	17,265
Anthropology	495	500	506	515	467	499	469	430	459
Area and ethnic studies	1,211	1,076	917	963	925	933	965	935	992
Economics	1,414	1,380	1,437	1,428	1,648	1,512	1,612	1,579	1,624
History of science	7	20	9	8	11	8	10	21	24
Linguistics	60	84	80	85	69	114	103	109	111
Political science and public administration	5,844	6,342	6,664	6,600	6,369	6,230	6,235	6,277	6,178
Sociology	5,271	5,457	5,448	5,482	5,336	5,060	4,865	4,738	4,506
Other social sciences	3,578	3,891	4,043	3,878	3,664	3,888	3,730	3,651	3,371

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Non-S&E	114,664	123,173	127,352	128,165	129,129	131,448	132,763	131,988	132,284
Native Hawaiian or Other Pacific Islander									
All fields	4,205	4,546	4,958	5,139	4,987	4,732	4,621	4,455	4,608
S&E	1,240	1,485	1,549	1,568	1,611	1,436	1,421	1,379	1,413
Engineering	117	162	187	183	141	160	156	171	163
Aerospace	3	5	5	6	4	7	7	3	4
Chemical	5	9	9	9	11	11	15	6	10
Civil	36	55	45	40	32	36	24	31	27
Electrical	29	34	49	34	35	36	38	41	42
Industrial	0	5	12	8	5	5	12	11	9
Materials	2	3	3	3	1	4	3	3	4
Mechanical	29	34	40	53	33	37	35	48	39
Other	13	17	24	30	20	24	22	28	28
Science	1,123	1,323	1,362	1,385	1,470	1,276	1,265	1,208	1,250
Natural sciences	440	528	567	604	641	567	543	564	572
Agricultural sciences	38	48	63	76	89	51	61	60	46
Biological sciences	220	261	250	269	291	244	246	249	256
Earth, atmospheric, and ocean sciences	8	8	13	10	9	7	10	12	11
Atmospheric sciences	0	1	2	1	2	1	1	1	1
Earth sciences	8	7	10	8	6	5	9	11	9
Oceanography	0	0	1	1	1	1	0	0	1
Mathematics and computer sciences	138	183	197	213	215	225	204	203	223
Computer sciences	101	145	159	179	180	194	180	162	196
Mathematics and statistics	37	38	38	34	35	31	24	41	27
Physical sciences	36	28	44	36	37	40	22	40	36
Astronomy	0	0	0	0	0	1	1	0	3
Chemistry	27	21	29	23	26	24	17	31	25
Physics	8	5	14	5	9	11	4	9	8
Other physical sciences	1	2	1	8	2	4	0	0	0
Social and behavioral sciences	683	795	795	781	829	709	722	644	678
Psychology	206	238	272	275	297	266	294	239	261
Social sciences	477	557	523	506	532	443	428	405	417
Anthropology	25	33	24	39	30	31	13	18	28
Area and ethnic studies	38	43	44	40	41	31	37	22	28
Economics	65	53	48	46	57	39	54	45	49

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
History of science	0	0	0	0	1	0	0	0	0
Linguistics	3	3	4	5	8	6	3	4	4
Political science and public administration	158	188	165	182	162	146	167	135	132
Sociology	99	109	95	94	115	88	67	100	77
Other social sciences	89	128	143	100	118	102	87	81	99
Non-S&E	2,965	3,061	3,409	3,571	3,376	3,296	3,200	3,076	3,195
White									
All fields	1,102,792	1,133,084	1,150,239	1,154,363	1,150,065	1,145,220	1,148,033	1,147,499	1,146,775
S&E	338,461	354,806	365,827	372,882	373,795	374,883	377,509	382,555	384,400
Engineering	49,401	52,352	54,344	57,811	60,596	64,576	68,656	71,449	73,097
Aerospace	2,257	2,379	2,254	2,297	2,484	2,456	2,471	2,589	2,967
Chemical	4,699	5,009	5,346	5,817	6,507	7,131	7,804	7,920	7,487
Civil	9,982	10,263	10,378	10,060	9,692	9,826	9,740	10,172	10,487
Electrical	8,635	9,114	9,525	10,274	10,884	11,658	12,577	12,822	13,480
Industrial	2,482	2,692	2,773	3,097	3,377	3,605	3,847	4,082	4,192
Materials	776	846	944	940	1,060	1,127	1,194	1,164	1,192
Mechanical	13,568	14,426	15,113	16,664	17,626	19,145	20,672	22,111	22,617
Other	7,002	7,623	8,011	8,662	8,966	9,628	10,351	10,589	10,675
Science	289,060	302,454	311,483	315,071	313,199	310,307	308,853	311,106	311,303
Natural sciences	126,538	135,277	142,658	148,787	153,497	157,305	160,645	164,256	166,734
Agricultural sciences	17,967	19,635	21,392	22,145	22,454	23,022	23,177	23,884	24,143
Biological sciences	55,171	58,368	60,732	63,320	65,376	66,726	67,048	67,176	67,032
Earth, atmospheric, and ocean sciences	4,256	4,713	4,970	5,211	5,492	5,493	5,439	5,383	4,914
Atmospheric sciences	575	620	619	608	593	576	546	573	485
Earth sciences	3,509	3,917	4,161	4,417	4,704	4,760	4,738	4,680	4,282
Oceanography	172	176	190	186	195	157	155	130	147
Mathematics and computer sciences	36,921	39,703	42,230	44,344	46,298	48,214	51,014	54,072	57,133
Computer sciences	25,293	27,128	29,031	31,206	33,112	34,904	37,470	40,196	43,015
Mathematics and statistics	11,628	12,575	13,199	13,138	13,186	13,310	13,544	13,876	14,118
Physical sciences	12,223	12,858	13,334	13,767	13,877	13,850	13,967	13,741	13,512
Astronomy	272	291	249	291	275	288	348	384	408
Chemistry	7,821	8,181	8,287	8,489	8,510	8,449	8,522	8,183	7,981
Physics	3,734	3,917	4,285	4,438	4,612	4,712	4,683	4,808	4,758
Other physical sciences	396	469	513	549	480	401	414	366	365
Social and behavioral sciences	162,522	167,177	168,825	166,284	159,702	153,002	148,208	146,850	144,569

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Psychology	62,207	65,884	68,542	68,565	66,908	64,829	62,733	61,251	60,320
Social sciences	100,315	101,293	100,283	97,719	92,794	88,173	85,475	85,599	84,249
Anthropology	6,658	7,428	7,662	7,307	6,426	5,626	5,106	5,119	4,870
Area and ethnic studies	3,512	3,431	3,386	3,041	2,792	2,685	2,368	2,311	2,289
Economics	16,466	15,758	15,600	16,295	17,324	17,600	17,481	18,090	17,620
History of science	93	68	74	89	87	74	68	43	48
Linguistics	1,107	1,270	1,327	1,312	1,286	1,264	1,209	1,208	1,188
Political science and public administration	36,325	36,019	34,702	33,911	31,940	30,629	30,198	30,709	31,513
Sociology	15,676	15,866	15,667	15,031	13,762	12,562	11,949	11,660	11,010
Other social sciences	20,478	21,453	21,865	20,733	19,177	17,733	17,096	16,459	15,711
Non-S&E	764,331	778,278	784,412	781,481	776,270	770,337	770,524	764,944	762,375
More than one race									
All fields	19,451	25,475	32,310	43,043	51,507	58,925	63,890	68,122	71,066
S&E	7,168	9,613	12,149	16,956	20,135	23,005	24,964	26,856	28,145
Engineering	888	1,125	1,422	2,116	2,707	3,323	3,736	4,071	4,438
Aerospace	31	57	73	93	117	133	169	155	195
Chemical	98	100	110	192	272	360	395	402	429
Civil	164	177	258	312	396	448	489	498	527
Electrical	187	215	292	465	556	705	829	890	1,000
Industrial	49	60	50	90	135	165	188	183	217
Materials	10	28	26	40	54	92	76	80	84
Mechanical	197	284	358	545	724	864	992	1,189	1,239
Other	152	204	255	379	453	556	598	674	747
Science	6,280	8,488	10,727	14,840	17,428	19,682	21,228	22,785	23,707
Natural sciences	2,390	3,274	4,292	6,270	7,750	9,100	10,037	11,222	11,916
Agricultural sciences	226	378	541	722	830	1,018	1,086	1,258	1,309
Biological sciences	1,142	1,593	2,047	3,030	3,878	4,263	4,699	5,100	5,242
Earth, atmospheric, and ocean sciences	65	102	116	162	199	228	261	314	304
Atmospheric sciences	2	6	13	15	19	20	18	27	28
Earth sciences	58	88	97	131	169	195	229	278	259
Oceanography	5	8	6	16	11	13	14	9	17
Mathematics and computer sciences	706	892	1,206	1,745	2,173	2,762	3,111	3,598	4,126
Computer sciences	496	655	864	1,238	1,569	2,075	2,343	2,775	3,236
Mathematics and statistics	210	237	342	507	604	687	768	823	890
Physical sciences	251	309	382	611	670	829	880	952	935

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Astronomy	8	6	10	18	15	26	37	37	41
Chemistry	152	208	250	397	422	513	531	579	578
Physics	82	86	109	178	217	265	296	311	295
Other physical sciences	9	9	13	18	16	25	16	25	21
Social and behavioral sciences	3,890	5,214	6,435	8,570	9,678	10,582	11,191	11,563	11,791
Psychology	1,488	1,921	2,412	3,319	3,817	4,193	4,418	4,610	4,735
Social sciences	2,402	3,293	4,023	5,251	5,861	6,389	6,773	6,953	7,056
Anthropology	192	291	360	497	460	484	497	468	489
Area and ethnic studies	216	244	312	340	343	354	422	409	401
Economics	356	435	504	691	917	952	1,095	1,162	1,161
History of science	4	5	4	4	5	6	6	7	8
Linguistics	40	52	61	102	118	128	134	120	102
Political science and public administration	772	1,131	1,312	1,670	1,848	2,067	2,191	2,252	2,391
Sociology	443	576	733	943	1,049	1,166	1,134	1,203	1,182
Other social sciences	379	559	737	1,004	1,121	1,232	1,294	1,332	1,322
Non-S&E	12,283	15,862	20,161	26,087	31,372	35,920	38,926	41,266	42,921
Other or unknown race or ethnicity									
All fields	114,011	114,652	105,490	96,143	91,734	80,631	75,205	67,176	70,099
S&E	34,352	35,245	32,010	28,813	26,961	23,937	23,147	20,325	21,424
Engineering	4,048	3,512	3,397	3,303	3,045	3,122	3,425	3,092	3,357
Aerospace	160	125	107	101	78	86	116	112	131
Chemical	276	313	293	357	278	328	348	333	307
Civil	845	597	629	540	461	444	475	391	395
Electrical	903	768	752	799	756	778	842	787	803
Industrial	208	147	141	149	147	144	178	163	177
Materials	55	76	38	54	44	36	52	36	59
Mechanical	1,045	940	908	918	870	898	962	862	988
Other	556	546	529	385	411	408	452	408	497
Science	30,304	31,733	28,613	25,510	23,916	20,815	19,722	17,233	18,067
Natural sciences	12,568	13,047	12,234	11,245	10,705	9,683	9,482	8,515	9,340
Agricultural sciences	1,295	1,262	1,199	1,133	1,029	981	934	838	919
Biological sciences	4,860	4,859	4,740	4,159	4,030	3,450	3,341	2,936	3,145
Earth, atmospheric, and ocean sciences	299	252	244	227	240	225	214	182	157
Atmospheric sciences	31	23	27	18	20	18	17	12	16
Earth sciences	261	225	209	204	219	197	191	167	138

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Oceanography	7	4	8	5	1	10	6	3	3
Mathematics and computer sciences	4,974	5,558	5,048	4,911	4,626	4,278	4,282	3,989	4,541
Computer sciences	4,046	4,623	4,147	4,105	3,814	3,495	3,415	3,265	3,784
Mathematics and statistics	928	935	901	806	812	783	867	724	757
Physical sciences	1,140	1,116	1,003	815	780	749	711	570	578
Astronomy	16	27	13	15	12	17	12	13	9
Chemistry	620	637	617	509	480	431	421	337	360
Physics	347	367	326	261	257	248	239	195	188
Other physical sciences	157	85	47	30	31	53	39	25	21
Social and behavioral sciences	17,736	18,686	16,379	14,265	13,211	11,132	10,240	8,718	8,727
Psychology	5,823	6,273	5,471	4,830	4,827	4,243	4,145	3,477	3,518
Social sciences	11,913	12,413	10,908	9,435	8,384	6,889	6,095	5,241	5,209
Anthropology	739	773	641	504	406	315	210	236	220
Area and ethnic studies	450	525	412	274	247	221	196	170	145
Economics	2,016	1,761	1,490	1,329	1,338	1,251	1,260	1,009	1,126
History of science	7	6	10	4	4	2	1	5	3
Linguistics	139	153	143	106	126	94	80	75	56
Political science and public administration	4,453	4,690	4,082	3,494	3,020	2,226	2,042	1,717	1,758
Sociology	1,653	1,574	1,391	1,182	1,147	907	849	665	681
Other social sciences	2,456	2,931	2,739	2,542	2,096	1,873	1,457	1,364	1,220
Non-S&E	79,659	79,407	73,480	67,330	64,773	56,694	52,058	46,851	48,675
Temporary visa holder									
All fields	52,694	59,583	64,901	69,483	75,639	84,307	91,428	98,289	101,884
S&E	20,798	23,882	26,523	29,304	32,639	37,154	41,714	46,768	49,721
Engineering	5,251	6,331	6,747	7,556	8,555	10,117	11,809	13,320	13,746
Aerospace	245	267	273	296	272	300	297	318	309
Chemical	764	899	1,003	1,063	1,170	1,332	1,539	1,793	1,702
Civil	559	709	803	950	1,062	1,308	1,504	1,687	1,808
Electrical	1,699	1,999	2,016	2,161	2,510	2,820	3,093	3,480	3,585
Industrial	446	581	584	684	756	885	1,023	1,082	1,168
Materials	70	80	120	149	162	222	241	218	220
Mechanical	880	1,119	1,259	1,470	1,755	2,215	2,923	3,385	3,567
Other	588	677	689	783	868	1,035	1,189	1,357	1,387
Science	15,547	17,551	19,776	21,748	24,084	27,037	29,905	33,448	35,975
Natural sciences	7,509	8,577	9,598	10,373	11,586	13,477	15,784	18,411	20,616

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Agricultural sciences	342	374	515	569	604	663	714	853	939
Biological sciences	2,781	2,870	3,040	2,919	3,035	3,400	3,691	4,041	4,311
Earth, atmospheric, and ocean sciences	122	116	181	226	219	243	254	318	332
Atmospheric sciences	5	9	16	15	13	15	17	11	13
Earth sciences	117	104	162	207	206	218	233	300	315
Oceanography	0	3	3	4	0	10	4	7	4
Mathematics and computer sciences	3,384	4,252	4,774	5,522	6,503	7,854	9,627	11,602	13,268
Computer sciences	2,028	2,362	2,382	2,819	3,369	4,086	5,141	6,797	7,967
Mathematics and statistics	1,356	1,890	2,392	2,703	3,134	3,768	4,486	4,805	5,301
Physical sciences	880	965	1,088	1,137	1,225	1,317	1,498	1,597	1,766
Astronomy	16	8	12	28	16	29	36	44	50
Chemistry	573	599	693	745	762	820	893	894	947
Physics	255	326	349	331	414	441	550	639	747
Other physical sciences	36	32	34	33	33	27	19	20	22
Social and behavioral sciences	8,038	8,974	10,178	11,375	12,498	13,560	14,121	15,037	15,359
Psychology	1,676	2,006	2,229	2,460	2,557	2,896	3,057	3,260	3,429
Social sciences	6,362	6,968	7,949	8,915	9,941	10,664	11,064	11,777	11,930
Anthropology	98	122	105	151	137	140	136	162	176
Area and ethnic studies	210	230	198	254	243	277	305	364	317
Economics	3,323	3,785	4,539	5,164	5,907	6,390	6,564	6,807	6,960
History of science	1	1	2	3	2	3	2	3	7
Linguistics	85	105	90	97	108	112	121	148	145
Political science and public administration	1,701	1,673	1,802	1,850	1,993	2,072	2,162	2,378	2,249
Sociology	371	439	485	547	584	621	701	753	866
Other social sciences	573	613	728	849	967	1,049	1,073	1,162	1,210
Non-S&E	31,896	35,701	38,378	40,179	43,000	47,153	49,714	51,521	52,163
Male									
All citizenships, races, and ethnicity									
All fields	740,357	772,597	794,852	809,453	820,426	829,783	842,623	852,790	865,611
S&E	275,258	291,890	305,777	318,015	327,122	335,274	346,087	356,484	364,648
Engineering	63,441	67,282	70,878	75,324	79,849	86,182	92,554	96,728	99,844
Aerospace	2,903	3,082	3,011	3,077	3,356	3,323	3,466	3,557	4,161
Chemical	5,228	5,809	6,260	6,729	7,651	8,465	9,258	9,491	8,923
Civil	11,562	11,747	12,226	11,850	11,595	11,818	11,959	12,248	12,825
Electrical	14,744	15,457	16,345	17,660	18,816	20,484	22,410	23,202	24,371

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Industrial	3,129	3,413	3,497	3,869	4,176	4,485	4,809	5,071	5,258
Materials	819	954	1,018	1,101	1,214	1,355	1,376	1,304	1,379
Mechanical	17,262	18,351	19,613	21,572	23,299	25,583	28,077	30,495	31,443
Other	7,794	8,469	8,908	9,466	9,742	10,669	11,199	11,360	11,484
Science	211,817	224,608	234,899	242,691	247,273	249,092	253,533	259,756	264,804
Natural sciences	109,549	118,567	126,982	134,324	140,610	145,917	152,509	159,060	165,489
Agricultural sciences	10,904	11,616	12,783	13,271	13,226	13,606	13,784	13,993	13,969
Biological sciences	37,860	40,678	42,732	44,811	46,554	47,008	46,819	46,500	46,196
Earth, atmospheric, and ocean sciences	3,219	3,570	3,891	4,134	4,454	4,490	4,471	4,577	4,076
Atmospheric sciences	461	472	500	493	469	478	418	468	371
Earth sciences	2,650	2,978	3,270	3,508	3,835	3,911	3,958	4,034	3,601
Oceanography	108	120	121	133	150	101	95	75	104
Mathematics and computer sciences	46,162	50,566	54,647	58,701	62,660	66,955	73,382	79,941	87,257
Computer sciences	35,886	39,283	42,377	45,986	49,446	52,964	58,327	64,270	70,957
Mathematics and statistics	10,276	11,283	12,270	12,715	13,214	13,991	15,055	15,671	16,300
Physical sciences	11,404	12,137	12,929	13,407	13,716	13,858	14,053	14,049	13,991
Astronomy	228	239	229	259	249	313	360	383	403
Chemistry	6,560	6,984	7,306	7,585	7,561	7,552	7,651	7,360	7,185
Physics	4,220	4,495	4,945	5,097	5,462	5,621	5,663	5,964	6,069
Other physical sciences	396	419	449	466	444	372	379	342	334
Social and behavioral sciences	102,268	106,041	107,917	108,367	106,663	103,175	101,024	100,696	99,315
Psychology	23,401	25,601	27,044	27,554	27,080	26,577	25,696	24,873	24,582
Social sciences	78,867	80,440	80,873	80,813	79,583	76,598	75,328	75,823	74,733
Anthropology	2,998	3,201	3,361	3,219	2,814	2,511	2,331	2,334	2,279
Area and ethnic studies	2,763	2,715	2,598	2,421	2,242	2,181	2,042	2,048	2,016
Economics	20,826	20,677	20,849	21,823	23,684	23,932	24,296	25,054	24,794
History of science	60	49	42	52	59	49	54	47	40
Linguistics	573	689	692	708	700	684	696	702	700
Political science and public administration	28,975	29,287	28,771	28,178	27,024	25,426	24,797	25,159	25,572
Sociology	8,988	9,433	9,507	9,598	9,154	8,460	8,265	7,916	7,259
Other social sciences	13,684	14,389	15,053	14,814	13,906	13,355	12,847	12,563	12,073
Non-S&E	465,099	480,707	489,075	491,438	493,304	494,509	496,536	496,306	500,963
U.S. citizen or permanent resident									
All fields	714,163	742,895	762,482	774,290	781,745	785,845	794,082	800,241	811,236
S&E	263,363	278,193	290,700	301,187	308,195	313,654	321,258	328,578	335,079

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Engineering	59,254	62,252	65,587	69,407	73,063	78,188	83,136	86,105	88,872
Aerospace	2,687	2,843	2,770	2,835	3,113	3,071	3,224	3,293	3,911
Chemical	4,689	5,177	5,576	6,008	6,844	7,549	8,204	8,213	7,698
Civil	11,135	11,215	11,635	11,136	10,785	10,827	10,826	10,954	11,461
Electrical	13,318	13,794	14,677	15,869	16,722	18,144	19,747	20,313	21,347
Industrial	2,778	2,968	3,060	3,360	3,600	3,829	4,046	4,238	4,353
Materials	767	898	935	991	1,098	1,198	1,209	1,160	1,213
Mechanical	16,475	17,361	18,506	20,270	21,745	23,623	25,480	27,491	28,302
Other	7,405	7,996	8,428	8,938	9,156	9,947	10,400	10,443	10,587
Science	204,109	215,941	225,113	231,780	235,132	235,466	238,122	242,473	246,207
Natural sciences	105,351	113,713	121,647	128,470	133,996	138,257	143,441	148,500	153,723
Agricultural sciences	10,750	11,461	12,583	13,044	12,991	13,328	13,489	13,629	13,598
Biological sciences	36,790	39,519	41,543	43,656	45,345	45,685	45,439	44,999	44,660
Earth, atmospheric, and ocean sciences	3,131	3,495	3,766	4,002	4,332	4,341	4,317	4,391	3,864
Atmospheric sciences	456	465	490	483	461	465	411	463	368
Earth sciences	2,567	2,911	3,156	3,387	3,721	3,779	3,815	3,858	3,395
Oceanography	108	119	120	132	150	97	91	70	101
Mathematics and computer sciences	43,773	47,662	51,444	55,008	58,326	61,802	67,019	72,404	78,697
Computer sciences	34,253	37,409	40,478	43,803	46,860	49,862	54,420	59,334	65,261
Mathematics and statistics	9,520	10,253	10,966	11,205	11,466	11,940	12,599	13,070	13,436
Physical sciences	10,907	11,576	12,311	12,760	13,002	13,101	13,177	13,077	12,904
Astronomy	217	237	224	245	239	298	335	355	373
Chemistry	6,292	6,693	6,977	7,234	7,205	7,181	7,217	6,922	6,722
Physics	4,026	4,247	4,680	4,835	5,138	5,266	5,260	5,473	5,490
Other physical sciences	372	399	430	446	420	356	365	327	319
Social and behavioral sciences	98,758	102,228	103,466	103,310	101,136	97,209	94,681	93,973	92,484
Psychology	22,999	25,152	26,472	26,931	26,458	25,869	24,926	24,098	23,736
Social sciences	75,759	77,076	76,994	76,379	74,678	71,340	69,755	69,875	68,748
Anthropology	2,969	3,172	3,333	3,169	2,772	2,471	2,293	2,279	2,228
Area and ethnic studies	2,690	2,642	2,521	2,339	2,164	2,087	1,917	1,902	1,900
Economics	18,936	18,530	18,308	18,913	20,414	20,404	20,651	21,222	20,874
History of science	59	49	42	51	59	47	53	47	36
Linguistics	552	661	665	686	672	656	656	661	652
Political science and public administration	28,235	28,582	28,009	27,401	26,127	24,499	23,832	24,067	24,560
Sociology	8,866	9,297	9,361	9,406	8,973	8,272	7,992	7,664	6,986

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Other social sciences	13,452	14,143	14,755	14,414	13,497	12,904	12,361	12,033	11,512
Non-S&E	450,800	464,702	471,782	473,103	473,550	472,191	472,824	471,663	476,157
Hispanic or Latino									
All fields	62,127	69,135	76,703	83,284	89,640	96,348	101,398	108,442	114,780
S&E	22,406	25,495	28,700	32,047	34,817	38,031	40,655	43,933	46,705
Engineering	4,910	5,562	6,184	7,030	7,751	8,821	9,742	10,346	11,429
Aerospace	187	234	241	294	322	362	354	390	518
Chemical	281	362	407	447	538	714	769	834	830
Civil	1,036	1,164	1,330	1,312	1,342	1,441	1,521	1,520	1,696
Electrical	1,372	1,492	1,583	1,905	2,021	2,285	2,597	2,667	2,937
Industrial	278	334	338	394	408	437	501	530	571
Materials	31	61	59	74	68	100	84	93	118
Mechanical	1,304	1,466	1,685	1,996	2,355	2,634	3,031	3,364	3,681
Other	421	449	541	608	697	848	885	948	1,078
Science	17,496	19,933	22,516	25,017	27,066	29,210	30,913	33,587	35,276
Natural sciences	7,913	9,098	10,474	12,100	13,317	14,918	16,230	17,954	19,452
Agricultural sciences	518	595	719	788	845	1,019	1,110	1,104	1,241
Biological sciences	3,000	3,426	3,923	4,516	5,102	5,590	5,821	6,507	6,708
Earth, atmospheric, and ocean sciences	143	185	222	281	297	369	388	411	431
Atmospheric sciences	14	23	20	35	28	24	27	16	25
Earth sciences	126	156	195	238	256	338	349	387	393
Oceanography	3	6	7	8	13	7	12	8	13
Mathematics and computer sciences	3,541	4,116	4,643	5,437	5,926	6,652	7,479	8,309	9,342
Computer sciences	2,891	3,424	3,809	4,462	4,868	5,393	6,126	6,830	7,780
Mathematics and statistics	650	692	834	975	1,058	1,259	1,353	1,479	1,562
Physical sciences	711	776	967	1,078	1,147	1,288	1,432	1,623	1,730
Astronomy	18	11	24	23	23	25	39	39	46
Chemistry	441	484	551	648	663	745	856	912	934
Physics	230	258	349	365	420	488	509	631	698
Other physical sciences	22	23	43	42	41	30	28	41	52
Social and behavioral sciences	9,583	10,835	12,042	12,917	13,749	14,292	14,683	15,633	15,824
Psychology	2,507	2,909	3,432	3,876	4,121	4,377	4,416	4,808	4,827
Social sciences	7,076	7,926	8,610	9,041	9,628	9,915	10,267	10,825	10,997
Anthropology	293	341	428	440	416	427	409	410	432
Area and ethnic studies	377	413	382	391	331	411	379	380	402

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Economics	1,278	1,411	1,517	1,633	1,950	2,009	2,193	2,502	2,498
History of science	6	4	1	4	6	2	5	2	5
Linguistics	46	69	65	87	90	98	119	124	112
Political science and public administration	2,730	3,001	3,302	3,302	3,505	3,378	3,562	3,718	3,934
Sociology	1,060	1,250	1,303	1,452	1,521	1,678	1,709	1,699	1,631
Other social sciences	1,286	1,437	1,612	1,732	1,809	1,912	1,891	1,990	1,983
Non-S&E	39,721	43,640	48,003	51,237	54,823	58,317	60,743	64,509	68,075
Not Hispanic or Latino									
All fields	652,036	673,760	685,779	691,006	692,105	689,497	692,684	691,799	696,456
S&E	240,957	252,698	262,000	269,140	273,378	275,623	280,603	284,645	288,374
Engineering	54,344	56,690	59,403	62,377	65,312	69,367	73,394	75,759	77,443
Aerospace	2,500	2,609	2,529	2,541	2,791	2,709	2,870	2,903	3,393
Chemical	4,408	4,815	5,169	5,561	6,306	6,835	7,435	7,379	6,868
Civil	10,099	10,051	10,305	9,824	9,443	9,386	9,305	9,434	9,765
Electrical	11,946	12,302	13,094	13,964	14,701	15,859	17,150	17,646	18,410
Industrial	2,500	2,634	2,722	2,966	3,192	3,392	3,545	3,708	3,782
Materials	736	837	876	917	1,030	1,098	1,125	1,067	1,095
Mechanical	15,171	15,895	16,821	18,274	19,390	20,989	22,449	24,127	24,621
Other	6,984	7,547	7,887	8,330	8,459	9,099	9,515	9,495	9,509
Science	186,613	196,008	202,597	206,763	208,066	206,256	207,209	208,886	210,931
Natural sciences	97,438	104,615	111,173	116,370	120,679	123,339	127,211	130,546	134,271
Agricultural sciences	10,232	10,866	11,864	12,256	12,146	12,309	12,379	12,525	12,357
Biological sciences	33,790	36,093	37,620	39,140	40,243	40,095	39,618	38,492	37,952
Earth, atmospheric, and ocean sciences	2,988	3,310	3,544	3,721	4,035	3,972	3,929	3,980	3,433
Atmospheric sciences	442	442	470	448	433	441	384	447	343
Earth sciences	2,441	2,755	2,961	3,149	3,465	3,441	3,466	3,471	3,002
Oceanography	105	113	113	124	137	90	79	62	88
Mathematics and computer sciences	40,232	43,546	46,801	49,571	52,400	55,150	59,540	64,095	69,355
Computer sciences	31,362	33,985	36,669	39,341	41,992	44,469	48,294	52,504	57,481
Mathematics and statistics	8,870	9,561	10,132	10,230	10,408	10,681	11,246	11,591	11,874
Physical sciences	10,196	10,800	11,344	11,682	11,855	11,813	11,745	11,454	11,174
Astronomy	199	226	200	222	216	273	296	316	327
Chemistry	5,851	6,209	6,426	6,586	6,542	6,436	6,361	6,010	5,788
Physics	3,796	3,989	4,331	4,470	4,718	4,778	4,751	4,842	4,792
Other physical sciences	350	376	387	404	379	326	337	286	267

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Social and behavioral sciences	89,175	91,393	91,424	90,393	87,387	82,917	79,998	78,340	76,660
Psychology	20,492	22,243	23,040	23,055	22,337	21,492	20,510	19,290	18,909
Social sciences	68,683	69,150	68,384	67,338	65,050	61,425	59,488	59,050	57,751
Anthropology	2,676	2,831	2,905	2,729	2,356	2,044	1,884	1,869	1,796
Area and ethnic studies	2,313	2,229	2,139	1,948	1,833	1,676	1,538	1,522	1,498
Economics	17,658	17,119	16,791	17,280	18,464	18,395	18,458	18,720	18,376
History of science	53	45	41	47	53	45	48	45	31
Linguistics	506	592	600	599	582	558	537	537	540
Political science and public administration	25,505	25,581	24,707	24,099	22,622	21,121	20,270	20,349	20,626
Sociology	7,806	8,047	8,058	7,954	7,452	6,594	6,283	5,965	5,355
Other social sciences	12,166	12,706	13,143	12,682	11,688	10,992	10,470	10,043	9,529
Non-S&E	411,079	421,062	423,779	421,866	418,727	413,874	412,081	407,154	408,082
American Indian or Alaska Native									
All fields	4,468	4,181	4,342	3,944	3,856	3,650	3,573	3,378	3,300
S&E	1,560	1,494	1,555	1,429	1,352	1,306	1,282	1,260	1,173
Engineering	239	240	276	238	240	249	236	269	239
Aerospace	14	14	7	7	9	6	8	5	8
Chemical	17	20	23	23	25	28	28	32	20
Civil	63	47	60	51	34	49	45	40	36
Electrical	50	47	57	50	44	39	42	63	42
Industrial	5	8	15	5	13	7	15	13	12
Materials	0	3	1	1	1	3	3	2	4
Mechanical	68	69	73	64	83	79	60	86	84
Other	22	32	40	37	31	38	35	28	33
Science	1,321	1,254	1,279	1,191	1,112	1,057	1,046	991	934
Natural sciences	632	604	633	609	599	551	572	564	555
Agricultural sciences	84	93	102	87	93	92	100	98	94
Biological sciences	230	215	217	189	171	166	167	179	165
Earth, atmospheric, and ocean sciences	15	29	16	22	27	20	22	28	17
Atmospheric sciences	1	3	4	1	3	1	2	1	1
Earth sciences	14	26	12	21	23	19	18	26	16
Oceanography	0	0	0	0	1	0	2	1	0
Mathematics and computer sciences	238	218	249	255	262	216	244	218	223
Computer sciences	190	181	200	221	219	182	198	188	197
Mathematics and statistics	48	37	49	34	43	34	46	30	26

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physical sciences	65	49	49	56	46	57	39	41	56
Astronomy	1	2	3	0	0	0	1	0	1
Chemistry	40	27	28	31	35	35	22	30	29
Physics	23	19	17	22	9	20	13	11	21
Other physical sciences	1	1	1	3	2	2	3	0	5
Social and behavioral sciences	689	650	646	582	513	506	474	427	379
Psychology	138	181	173	167	148	136	142	134	121
Social sciences	551	469	473	415	365	370	332	293	258
Anthropology	34	34	38	22	25	18	16	17	13
Area and ethnic studies	79	57	77	54	62	73	63	70	47
Economics	87	59	65	55	64	61	39	47	38
History of science	0	1	0	0	0	0	0	0	0
Linguistics	5	4	4	3	6	2	3	2	3
Political science and public administration	182	144	145	139	97	96	101	69	71
Sociology	62	67	61	65	45	60	50	37	35
Other social sciences	102	103	83	77	66	60	60	51	51
Non-S&E	2,908	2,687	2,787	2,515	2,504	2,344	2,291	2,118	2,127
Asian									
All fields	49,968	51,949	54,252	54,635	56,028	58,571	60,917	63,987	66,518
S&E	26,161	27,269	29,133	29,789	30,821	32,807	34,537	36,868	38,867
Engineering	6,680	6,996	7,712	7,718	8,184	8,852	9,439	9,848	10,381
Aerospace	280	294	328	299	340	302	358	327	424
Chemical	566	669	745	755	914	895	972	996	997
Civil	896	884	969	860	852	841	850	831	906
Electrical	2,148	2,155	2,386	2,465	2,654	3,023	3,360	3,570	3,784
Industrial	269	275	321	305	336	358	344	365	367
Materials	108	102	130	117	155	148	141	144	156
Mechanical	1,323	1,413	1,625	1,656	1,738	1,952	2,077	2,252	2,426
Other	1,090	1,204	1,208	1,261	1,195	1,333	1,337	1,363	1,321
Science	19,481	20,273	21,421	22,071	22,637	23,955	25,098	27,020	28,486
Natural sciences	11,654	12,436	13,552	14,363	15,322	16,689	17,974	19,741	21,094
Agricultural sciences	361	406	381	427	410	422	418	441	419
Biological sciences	6,268	6,599	6,806	6,908	7,139	7,194	7,158	7,075	7,083
Earth, atmospheric, and ocean sciences	72	105	127	113	150	132	142	139	125
Atmospheric sciences	8	14	8	11	13	18	17	9	11

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Earth sciences	61	80	113	96	130	113	122	125	108
Oceanography	3	11	6	6	7	1	3	5	6
Mathematics and computer sciences	3,823	4,073	4,891	5,533	6,278	7,548	8,933	10,748	12,163
Computer sciences	2,749	2,988	3,617	4,197	4,899	6,078	7,333	8,865	10,209
Mathematics and statistics	1,074	1,085	1,274	1,336	1,379	1,470	1,600	1,883	1,954
Physical sciences	1,130	1,253	1,347	1,382	1,345	1,393	1,323	1,338	1,304
Astronomy	12	21	16	29	15	26	25	19	25
Chemistry	852	904	979	1,003	949	968	915	884	840
Physics	253	297	328	323	358	379	363	410	426
Other physical sciences	13	31	24	27	23	20	20	25	13
Social and behavioral sciences	7,827	7,837	7,869	7,708	7,315	7,266	7,124	7,279	7,392
Psychology	1,755	1,920	1,992	2,010	1,876	1,985	1,852	1,840	1,909
Social sciences	6,072	5,917	5,877	5,698	5,439	5,281	5,272	5,439	5,483
Anthropology	201	185	197	202	177	149	153	158	139
Area and ethnic studies	267	276	287	232	224	176	185	189	203
Economics	2,665	2,561	2,467	2,470	2,514	2,546	2,566	2,684	2,693
History of science	6	7	3	3	4	1	7	7	3
Linguistics	54	71	61	60	68	58	59	62	91
Political science and public administration	1,654	1,595	1,574	1,463	1,343	1,190	1,149	1,197	1,216
Sociology	524	554	613	588	530	533	509	507	473
Other social sciences	701	668	675	680	579	628	644	635	665
Non-S&E	23,807	24,680	25,119	24,846	25,207	25,764	26,380	27,119	27,651
Black or African American									
All fields	55,004	59,258	63,172	64,424	65,589	66,655	67,573	67,693	68,095
S&E	16,869	18,104	19,747	20,049	20,804	20,732	21,435	21,725	22,368
Engineering	2,288	2,356	2,650	2,666	2,879	3,152	3,324	3,526	3,648
Aerospace	75	58	78	71	87	90	95	86	103
Chemical	174	198	228	245	268	285	305	332	276
Civil	365	367	402	380	412	407	433	421	467
Electrical	799	803	955	957	960	990	1,063	1,152	1,160
Industrial	151	180	153	172	166	203	220	211	222
Materials	15	22	14	25	20	30	27	26	24
Mechanical	480	494	572	542	659	753	822	907	977
Other	229	234	248	274	307	394	359	391	419
Science	14,581	15,748	17,097	17,383	17,925	17,580	18,111	18,199	18,720

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Natural sciences	6,251	6,827	7,705	7,812	8,366	8,338	8,860	9,195	9,843
Agricultural sciences	259	274	298	333	337	336	346	413	383
Biological sciences	1,943	2,100	2,299	2,326	2,588	2,638	2,787	2,705	2,778
Earth, atmospheric, and ocean sciences	65	60	72	81	99	79	98	116	113
Atmospheric sciences	18	9	16	12	10	12	8	20	15
Earth sciences	43	47	53	61	84	65	87	95	96
Oceanography	4	4	3	8	5	2	3	1	2
Mathematics and computer sciences	3,505	3,886	4,506	4,509	4,784	4,730	5,035	5,405	5,986
Computer sciences	3,096	3,387	4,006	4,009	4,284	4,224	4,503	4,833	5,434
Mathematics and statistics	409	499	500	500	500	506	532	572	552
Physical sciences	479	507	530	563	558	555	594	556	583
Astronomy	5	2	4	1	9	6	8	5	10
Chemistry	337	384	374	393	395	363	389	372	363
Physics	111	99	119	143	125	161	168	161	189
Other physical sciences	26	22	33	26	29	25	29	18	21
Social and behavioral sciences	8,330	8,921	9,392	9,571	9,559	9,242	9,251	9,004	8,877
Psychology	2,194	2,436	2,761	2,739	2,906	2,858	2,920	2,781	2,793
Social sciences	6,136	6,485	6,631	6,832	6,653	6,384	6,331	6,223	6,084
Anthropology	146	116	121	115	103	122	120	101	118
Area and ethnic studies	411	350	295	344	282	300	282	287	321
Economics	893	906	942	935	1,095	1,010	1,059	1,036	1,038
History of science	2	5	4	2	5	3	3	11	6
Linguistics	13	22	25	26	13	28	27	25	30
Political science and public administration	2,134	2,289	2,390	2,428	2,362	2,245	2,173	2,188	2,156
Sociology	1,447	1,561	1,561	1,664	1,558	1,445	1,419	1,394	1,294
Other social sciences	1,090	1,236	1,293	1,318	1,235	1,231	1,248	1,181	1,121
Non-S&E	38,135	41,154	43,425	44,375	44,785	45,923	46,138	45,968	45,727
Native Hawaiian or Other Pacific Islander									
All fields	1,665	1,962	2,184	2,184	2,208	2,038	1,984	1,944	1,967
S&E	575	687	791	764	784	711	675	683	685
Engineering	91	125	150	147	108	123	115	137	126
Aerospace	2	4	5	5	3	7	4	2	4
Chemical	2	6	5	7	5	9	9	6	6
Civil	26	39	39	34	27	28	15	26	22
Electrical	24	29	44	30	30	28	33	35	38

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Industrial	0	4	5	4	2	5	9	6	3
Materials	2	1	2	1	1	2	2	2	2
Mechanical	26	29	31	48	28	27	29	43	34
Other	9	13	19	18	12	17	14	17	17
Science	484	562	641	617	676	588	560	546	559
Natural sciences	240	270	325	307	364	330	312	294	319
Agricultural sciences	20	19	30	25	43	26	23	24	20
Biological sciences	88	107	107	101	146	114	109	83	101
Earth, atmospheric, and ocean sciences	7	7	7	8	3	4	3	7	7
Atmospheric sciences	0	1	2	0	0	0	0	1	0
Earth sciences	7	6	5	8	2	3	3	6	7
Oceanography	0	0	0	0	1	1	0	0	0
Mathematics and computer sciences	108	125	157	158	151	166	168	161	167
Computer sciences	87	106	134	142	133	145	151	135	151
Mathematics and statistics	21	19	23	16	18	21	17	26	16
Physical sciences	17	12	24	15	21	20	9	19	24
Astronomy	0	0	0	0	0	0	0	0	2
Chemistry	12	7	13	11	13	9	5	12	16
Physics	5	4	10	3	7	8	4	7	6
Other physical sciences	0	1	1	1	1	3	0	0	0
Social and behavioral sciences	244	292	316	310	312	258	248	252	240
Psychology	49	67	79	68	81	59	67	69	68
Social sciences	195	225	237	242	231	199	181	183	172
Anthropology	7	9	9	15	10	12	4	4	9
Area and ethnic studies	14	19	19	20	21	16	16	5	11
Economics	45	38	35	34	43	28	37	35	32
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	1	2	4	4	3	1	2
Political science and public administration	53	77	73	82	52	65	58	62	51
Sociology	41	40	44	41	52	36	35	49	34
Other social sciences	35	42	56	48	49	38	28	27	33
Non-S&E	1,090	1,275	1,393	1,420	1,424	1,327	1,309	1,261	1,282
White									
All fields	484,214	497,174	503,572	506,959	503,620	499,486	499,897	497,796	496,864
S&E	175,430	183,549	189,700	195,076	196,930	197,291	199,159	201,236	201,125

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Engineering	41,027	43,256	44,765	47,303	49,390	52,053	54,808	56,609	57,258
Aerospace	1,964	2,086	1,959	1,997	2,184	2,131	2,161	2,266	2,579
Chemical	3,377	3,625	3,886	4,168	4,719	5,153	5,607	5,546	5,115
Civil	7,970	8,137	8,184	7,909	7,492	7,411	7,288	7,526	7,688
Electrical	7,942	8,384	8,725	9,326	9,857	10,492	11,219	11,396	11,876
Industrial	1,876	2,022	2,097	2,299	2,479	2,611	2,708	2,883	2,915
Materials	562	636	689	704	785	824	872	822	816
Mechanical	12,177	12,816	13,420	14,688	15,540	16,713	17,849	19,132	19,300
Other	5,159	5,550	5,805	6,212	6,334	6,718	7,104	7,038	6,969
Science	134,403	140,293	144,935	147,773	147,540	145,238	144,351	144,627	143,867
Natural sciences	70,215	75,092	79,654	83,403	85,823	87,095	88,857	90,086	90,981
Agricultural sciences	8,864	9,361	10,273	10,595	10,487	10,610	10,667	10,717	10,512
Biological sciences	22,772	24,367	25,417	26,705	27,073	26,955	26,300	25,484	24,838
Earth, atmospheric, and ocean sciences	2,622	2,919	3,110	3,284	3,480	3,461	3,387	3,410	2,921
Atmospheric sciences	397	397	413	403	382	386	338	394	291
Earth sciences	2,133	2,430	2,604	2,785	2,983	3,001	2,986	2,968	2,558
Oceanography	92	92	93	96	115	74	63	48	72
Mathematics and computer sciences	28,304	30,321	32,301	34,024	35,796	37,236	39,666	41,883	44,366
Computer sciences	21,668	23,128	24,743	26,479	28,160	29,463	31,591	33,717	36,001
Mathematics and statistics	6,636	7,193	7,558	7,545	7,636	7,773	8,075	8,166	8,365
Physical sciences	7,653	8,124	8,553	8,795	8,987	8,833	8,837	8,592	8,344
Astronomy	164	181	164	177	175	215	239	253	263
Chemistry	4,204	4,465	4,585	4,668	4,678	4,573	4,555	4,261	4,092
Physics	3,060	3,215	3,499	3,627	3,838	3,816	3,794	3,864	3,784
Other physical sciences	225	263	305	323	296	229	249	214	205
Social and behavioral sciences	64,188	65,201	65,281	64,370	61,717	58,143	55,494	54,541	52,886
Psychology	14,614	15,663	16,161	16,181	15,304	14,534	13,610	12,736	12,218
Social sciences	49,574	49,538	49,120	48,189	46,413	43,609	41,884	41,805	40,668
Anthropology	2,020	2,188	2,260	2,115	1,817	1,548	1,404	1,413	1,321
Area and ethnic studies	1,299	1,280	1,213	1,081	1,049	919	815	789	738
Economics	12,324	12,007	11,906	12,371	13,220	13,283	13,160	13,475	13,079
History of science	40	27	29	39	41	35	37	22	21
Linguistics	373	427	437	435	406	400	379	380	367
Political science and public administration	19,227	19,031	18,350	17,911	16,727	15,708	14,990	15,165	15,435
Sociology	5,065	5,125	5,110	4,919	4,538	3,858	3,650	3,411	3,002

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Other social sciences	9,226	9,453	9,815	9,318	8,615	7,858	7,449	7,150	6,705
Non-S&E	308,784	313,625	313,872	311,883	306,690	302,195	300,738	296,560	295,739
More than one race									
All fields	7,586	10,224	13,195	17,164	21,095	24,028	25,969	27,827	29,103
S&E	3,219	4,397	5,516	7,588	9,387	10,696	11,715	12,441	13,052
Engineering	655	866	1,094	1,606	2,031	2,433	2,771	2,970	3,207
Aerospace	27	47	63	76	99	105	144	126	165
Chemical	63	65	70	111	179	233	274	250	256
Civil	116	126	179	208	276	307	326	326	354
Electrical	159	190	252	407	483	593	694	753	831
Industrial	30	41	31	64	88	106	127	109	134
Materials	6	20	20	25	34	65	48	45	52
Mechanical	160	244	306	463	576	692	791	963	973
Other	94	133	173	252	296	332	367	398	442
Science	2,564	3,531	4,422	5,982	7,356	8,263	8,944	9,471	9,845
Natural sciences	1,238	1,674	2,223	3,095	3,924	4,688	5,164	5,660	6,008
Agricultural sciences	92	149	240	252	308	362	408	445	496
Biological sciences	453	635	828	1,146	1,525	1,702	1,834	1,869	1,852
Earth, atmospheric, and ocean sciences	35	48	56	76	113	134	153	160	160
Atmospheric sciences	1	4	8	9	10	12	11	13	18
Earth sciences	31	40	43	57	95	115	137	140	136
Oceanography	3	4	5	10	8	7	5	7	6
Mathematics and computer sciences	512	667	871	1,266	1,576	1,989	2,266	2,620	2,986
Computer sciences	398	524	681	976	1,231	1,585	1,815	2,146	2,485
Mathematics and statistics	114	143	190	290	345	404	451	474	501
Physical sciences	146	175	228	355	402	501	503	566	514
Astronomy	5	2	5	8	8	15	17	28	23
Chemistry	77	108	132	199	213	268	259	289	263
Physics	61	60	88	139	173	206	219	236	218
Other physical sciences	3	5	3	9	8	12	8	13	10
Social and behavioral sciences	1,326	1,857	2,199	2,887	3,432	3,575	3,780	3,811	3,837
Psychology	341	468	580	758	927	958	997	976	997
Social sciences	985	1,389	1,619	2,129	2,505	2,617	2,783	2,835	2,840
Anthropology	52	75	96	110	107	108	124	107	127
Area and ethnic studies	62	74	98	112	124	105	120	122	134

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Economics	235	314	353	481	620	630	729	786	780
History of science	1	2	1	1	2	4	1	3	1
Linguistics	11	18	14	33	42	40	41	35	35
Political science and public administration	341	529	567	747	827	882	926	935	953
Sociology	137	157	197	286	340	366	342	344	320
Other social sciences	146	220	293	359	443	482	500	503	490
Non-S&E	4,367	5,827	7,679	9,576	11,708	13,332	14,254	15,386	16,051
Other or unknown race or ethnicity									
All fields	49,131	49,012	45,062	41,696	39,709	35,069	32,771	29,174	30,609
S&E	17,143	17,198	15,558	14,445	13,300	12,080	11,800	10,432	11,104
Engineering	3,364	2,851	2,756	2,699	2,480	2,505	2,701	2,400	2,584
Aerospace	138	106	89	86	69	68	100	91	110
Chemical	209	232	212	252	196	232	240	217	198
Civil	663	451	472	382	350	343	348	264	292
Electrical	824	694	675	729	673	694	739	677	679
Industrial	169	104	100	117	108	102	122	121	129
Materials	43	53	20	44	34	26	32	26	41
Mechanical	937	830	794	813	766	773	821	744	827
Other	381	381	394	276	284	267	299	260	308
Science	13,779	14,347	12,802	11,746	10,820	9,575	9,099	8,032	8,520
Natural sciences	7,208	7,712	7,081	6,781	6,281	5,648	5,472	5,006	5,471
Agricultural sciences	552	564	540	537	468	461	417	387	433
Biological sciences	2,036	2,070	1,946	1,765	1,601	1,326	1,263	1,097	1,135
Earth, atmospheric, and ocean sciences	172	142	156	137	163	142	124	120	90
Atmospheric sciences	17	14	19	12	15	12	8	9	7
Earth sciences	152	126	131	121	148	125	113	111	81
Oceanography	3	2	6	4	0	5	3	0	2
Mathematics and computer sciences	3,742	4,256	3,826	3,826	3,553	3,265	3,228	3,060	3,464
Computer sciences	3,174	3,671	3,288	3,317	3,066	2,792	2,703	2,620	3,004
Mathematics and statistics	568	585	538	509	487	473	525	440	460
Physical sciences	706	680	613	516	496	454	440	342	349
Astronomy	12	18	8	7	9	11	6	11	3
Chemistry	329	314	315	281	259	220	216	162	185
Physics	283	295	270	213	208	188	190	153	148
Other physical sciences	82	53	20	15	20	35	28	16	13

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Social and behavioral sciences	6,571	6,635	5,721	4,965	4,539	3,927	3,627	3,026	3,049
Psychology	1,401	1,508	1,294	1,132	1,095	962	922	754	803
Social sciences	5,170	5,127	4,427	3,833	3,444	2,965	2,705	2,272	2,246
Anthropology	216	224	184	150	117	87	63	69	69
Area and ethnic studies	181	173	150	105	71	87	57	60	44
Economics	1,409	1,234	1,023	934	908	837	868	657	716
History of science	4	3	4	2	1	2	0	2	0
Linguistics	50	50	58	40	43	26	25	32	12
Political science and public administration	1,914	1,916	1,608	1,329	1,214	935	873	733	744
Sociology	530	543	472	391	389	296	278	223	197
Other social sciences	866	984	928	882	701	695	541	496	464
Non-S&E	31,988	31,814	29,504	27,251	26,409	22,989	20,971	18,742	19,505
Temporary visa holder									
All fields	26,194	29,702	32,370	35,163	38,681	43,938	48,541	52,549	54,375
S&E	11,895	13,697	15,077	16,828	18,927	21,620	24,829	27,906	29,569
Engineering	4,187	5,030	5,291	5,917	6,786	7,994	9,418	10,623	10,972
Aerospace	216	239	241	242	243	252	242	264	250
Chemical	539	632	684	721	807	916	1,054	1,278	1,225
Civil	427	532	591	714	810	991	1,133	1,294	1,364
Electrical	1,426	1,663	1,668	1,791	2,094	2,340	2,663	2,889	3,024
Industrial	351	445	437	509	576	656	763	833	905
Materials	52	56	83	110	116	157	167	144	166
Mechanical	787	990	1,107	1,302	1,554	1,960	2,597	3,004	3,141
Other	389	473	480	528	586	722	799	917	897
Science	7,708	8,667	9,786	10,911	12,141	13,626	15,411	17,283	18,597
Natural sciences	4,198	4,854	5,335	5,854	6,614	7,660	9,068	10,560	11,766
Agricultural sciences	154	155	200	227	235	278	295	364	371
Biological sciences	1,070	1,159	1,189	1,155	1,209	1,323	1,380	1,501	1,536
Earth, atmospheric, and ocean sciences	88	75	125	132	122	149	154	186	212
Atmospheric sciences	5	7	10	10	8	13	7	5	3
Earth sciences	83	67	114	121	114	132	143	176	206
Oceanography	0	1	1	1	0	4	4	5	3
Mathematics and computer sciences	2,389	2,904	3,203	3,693	4,334	5,153	6,363	7,537	8,560
Computer sciences	1,633	1,874	1,899	2,183	2,586	3,102	3,907	4,936	5,696
Mathematics and statistics	756	1,030	1,304	1,510	1,748	2,051	2,456	2,601	2,864

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physical sciences	497	561	618	647	714	757	876	972	1,087
Astronomy	11	2	5	14	10	15	25	28	30
Chemistry	268	291	329	351	356	371	434	438	463
Physics	194	248	265	262	324	355	403	491	579
Other physical sciences	24	20	19	20	24	16	14	15	15
Social and behavioral sciences	3,510	3,813	4,451	5,057	5,527	5,966	6,343	6,723	6,831
Psychology	402	449	572	623	622	708	770	775	846
Social sciences	3,108	3,364	3,879	4,434	4,905	5,258	5,573	5,948	5,985
Anthropology	29	29	28	50	42	40	38	55	51
Area and ethnic studies	73	73	77	82	78	94	125	146	116
Economics	1,890	2,147	2,541	2,910	3,270	3,528	3,645	3,832	3,920
History of science	1	0	0	1	0	2	1	0	4
Linguistics	21	28	27	22	28	28	40	41	48
Political science and public administration	740	705	762	777	897	927	965	1,092	1,012
Sociology	122	136	146	192	181	188	273	252	273
Other social sciences	232	246	298	400	409	451	486	530	561
Non-S&E	14,299	16,005	17,293	18,335	19,754	22,318	23,712	24,643	24,806
Female									
All citizenships, races, and ethnicity									
All fields	993,872	1,038,807	1,066,182	1,081,488	1,095,703	1,112,357	1,130,489	1,148,820	1,168,460
S&E	279,107	297,677	309,698	317,900	322,935	330,883	338,470	350,674	360,299
Engineering	14,658	15,981	16,934	18,626	20,057	22,794	25,373	27,600	29,341
Aerospace	439	463	479	488	515	551	555	575	664
Chemical	2,307	2,535	2,657	2,977	3,186	3,660	4,069	4,477	4,340
Civil	3,278	3,428	3,656	3,701	3,779	4,195	4,439	4,671	4,959
Electrical	1,741	1,923	2,067	2,331	2,541	2,932	3,305	3,716	4,014
Industrial	1,164	1,276	1,282	1,454	1,637	1,854	2,097	2,204	2,276
Materials	321	368	430	412	473	536	592	624	643
Mechanical	2,208	2,538	2,687	3,107	3,443	4,006	4,670	5,092	5,768
Other	3,200	3,450	3,676	4,156	4,483	5,060	5,646	6,241	6,677
Science	264,449	281,696	292,764	299,274	302,878	308,089	313,097	323,074	330,958
Natural sciences	92,968	100,526	106,050	111,300	117,055	123,204	128,989	136,989	143,630
Agricultural sciences	11,855	13,444	14,826	15,525	16,234	16,934	17,305	18,469	19,503
Biological sciences	55,794	59,216	61,971	64,709	68,570	72,065	74,923	78,568	81,219
Earth, atmospheric, and ocean sciences	2,080	2,295	2,400	2,596	2,701	2,793	2,849	2,854	2,921

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Atmospheric sciences	217	263	249	258	265	236	267	246	264
Earth sciences	1,760	1,926	2,032	2,216	2,327	2,425	2,462	2,502	2,546
Oceanography	103	106	119	122	109	132	120	106	111
Mathematics and computer sciences	15,445	17,287	18,506	19,655	20,785	22,524	24,555	27,491	30,416
Computer sciences	7,700	8,751	9,209	10,144	10,863	12,222	13,802	16,001	18,464
Mathematics and statistics	7,745	8,536	9,297	9,511	9,922	10,302	10,753	11,490	11,952
Physical sciences	7,794	8,284	8,347	8,815	8,765	8,888	9,357	9,607	9,571
Astronomy	136	153	128	170	144	140	176	208	239
Chemistry	6,328	6,730	6,718	7,097	7,108	7,120	7,472	7,588	7,453
Physics	1,001	1,062	1,162	1,186	1,219	1,347	1,454	1,570	1,634
Other physical sciences	329	339	339	362	294	281	255	241	245
Social and behavioral sciences	171,481	181,170	186,714	187,974	185,823	184,885	184,108	186,085	187,328
Psychology	78,167	84,181	88,329	90,851	91,688	92,069	91,745	92,701	93,056
Social sciences	93,314	96,989	98,385	97,123	94,135	92,816	92,363	93,384	94,272
Anthropology	7,024	7,927	8,175	8,083	7,351	6,819	6,235	6,287	6,106
Area and ethnic studies	5,054	5,145	4,987	4,683	4,378	4,420	4,391	4,372	4,476
Economics	9,187	8,780	9,185	9,762	10,660	11,113	11,342	11,848	11,991
History of science	78	73	77	81	72	62	63	53	72
Linguistics	1,235	1,420	1,492	1,517	1,575	1,605	1,603	1,603	1,616
Political science and public administration	30,777	31,514	31,473	31,082	29,790	29,396	30,078	30,646	31,735
Sociology	20,626	21,169	21,522	21,074	20,389	20,060	19,664	19,922	20,029
Other social sciences	19,333	20,961	21,474	20,841	19,920	19,341	18,987	18,653	18,247
Non-S&E	714,765	741,130	756,484	763,588	772,768	781,474	792,019	798,146	808,161
U.S. citizen or permanent resident									
All fields	967,372	1,008,926	1,033,651	1,047,168	1,058,745	1,071,988	1,087,602	1,103,080	1,120,951
S&E	270,204	287,492	298,252	305,424	309,223	315,349	321,585	331,812	340,147
Engineering	13,594	14,680	15,478	16,987	18,288	20,671	22,982	24,903	26,567
Aerospace	410	435	447	434	486	503	500	521	605
Chemical	2,082	2,268	2,338	2,635	2,823	3,244	3,584	3,962	3,863
Civil	3,146	3,251	3,444	3,465	3,527	3,878	4,068	4,278	4,515
Electrical	1,468	1,587	1,719	1,961	2,125	2,452	2,875	3,125	3,453
Industrial	1,069	1,140	1,135	1,279	1,457	1,625	1,837	1,955	2,013
Materials	303	344	393	373	427	471	518	550	589
Mechanical	2,115	2,409	2,535	2,939	3,242	3,751	4,344	4,711	5,342
Other	3,001	3,246	3,467	3,901	4,201	4,747	5,256	5,801	6,187

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Science	256,610	272,812	282,774	288,437	290,935	294,678	298,603	306,909	313,580
Natural sciences	89,657	96,803	101,787	106,781	112,083	117,387	122,273	129,138	134,780
Agricultural sciences	11,667	13,225	14,511	15,183	15,865	16,549	16,886	17,980	18,935
Biological sciences	54,083	57,505	60,120	62,945	66,744	69,988	72,612	76,028	78,444
Earth, atmospheric, and ocean sciences	2,046	2,254	2,344	2,502	2,604	2,699	2,749	2,722	2,801
Atmospheric sciences	217	261	243	253	260	234	257	240	254
Earth sciences	1,726	1,889	1,984	2,130	2,235	2,339	2,372	2,378	2,437
Oceanography	103	104	117	119	109	126	120	104	110
Mathematics and computer sciences	14,450	15,939	16,935	17,826	18,616	19,823	21,291	23,426	25,708
Computer sciences	7,305	8,263	8,726	9,508	10,080	11,238	12,568	14,140	16,193
Mathematics and statistics	7,145	7,676	8,209	8,318	8,536	8,585	8,723	9,286	9,515
Physical sciences	7,411	7,880	7,877	8,325	8,254	8,328	8,735	8,982	8,892
Astronomy	131	147	121	156	138	126	165	192	219
Chemistry	6,023	6,422	6,354	6,703	6,702	6,671	7,013	7,132	6,969
Physics	940	984	1,078	1,117	1,129	1,261	1,307	1,422	1,466
Other physical sciences	317	327	324	349	285	270	250	236	238
Social and behavioral sciences	166,953	176,009	180,987	181,656	178,852	177,291	176,330	177,771	178,800
Psychology	76,893	82,624	86,672	89,014	89,753	89,881	89,458	90,216	90,473
Social sciences	90,060	93,385	94,315	92,642	89,099	87,410	86,872	87,555	88,327
Anthropology	6,955	7,834	8,098	7,982	7,256	6,719	6,137	6,180	5,981
Area and ethnic studies	4,917	4,988	4,866	4,511	4,213	4,237	4,211	4,154	4,275
Economics	7,754	7,142	7,187	7,508	8,023	8,251	8,423	8,873	8,951
History of science	78	72	75	79	70	61	62	50	69
Linguistics	1,171	1,343	1,429	1,442	1,495	1,521	1,522	1,496	1,519
Political science and public administration	29,816	30,546	30,433	30,009	28,694	28,251	28,881	29,360	30,498
Sociology	20,377	20,866	21,183	20,719	19,986	19,627	19,236	19,421	19,436
Other social sciences	18,992	20,594	21,044	20,392	19,362	18,743	18,400	18,021	17,598
Non-S&E	697,168	721,434	735,399	741,744	749,522	756,639	766,017	771,268	780,804
Hispanic or Latino									
All fields	97,809	107,584	118,216	128,426	137,260	148,733	156,797	168,987	179,757
S&E	29,015	32,670	37,026	41,132	44,386	48,248	50,895	55,959	59,632
Engineering	1,407	1,611	1,723	1,954	2,209	2,516	2,871	3,168	3,374
Aerospace	30	45	47	51	74	58	57	58	69
Chemical	197	244	231	267	276	353	381	454	450
Civil	392	422	472	513	545	602	692	664	745

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Electrical	176	218	207	245	282	308	389	427	454
Industrial	185	206	205	211	238	262	276	302	272
Materials	19	30	22	30	31	41	40	45	46
Mechanical	212	246	285	349	410	464	520	638	707
Other	196	200	254	288	353	428	516	580	631
Science	27,608	31,059	35,303	39,178	42,177	45,732	48,024	52,791	56,258
Natural sciences	7,318	8,444	9,668	10,972	12,528	13,779	14,866	17,110	19,008
Agricultural sciences	718	812	1,096	1,195	1,391	1,551	1,681	1,957	2,319
Biological sciences	4,761	5,465	6,158	7,026	8,069	8,981	9,540	11,126	12,150
Earth, atmospheric, and ocean sciences	122	138	168	214	242	271	297	310	343
Atmospheric sciences	15	13	13	21	18	15	19	24	23
Earth sciences	97	118	148	184	210	240	270	280	310
Oceanography	10	7	7	9	14	16	8	6	10
Mathematics and computer sciences	1,150	1,377	1,580	1,787	1,923	2,126	2,393	2,617	3,063
Computer sciences	648	792	910	1,007	1,044	1,219	1,418	1,540	1,911
Mathematics and statistics	502	585	670	780	879	907	975	1,077	1,152
Physical sciences	567	652	666	750	903	850	955	1,100	1,133
Astronomy	8	10	7	13	15	20	15	28	24
Chemistry	499	568	553	625	753	710	785	891	917
Physics	46	56	77	81	108	97	126	155	169
Other physical sciences	14	18	29	31	27	23	29	26	23
Social and behavioral sciences	20,290	22,615	25,635	28,206	29,649	31,953	33,158	35,681	37,250
Psychology	9,160	10,450	11,957	13,704	14,678	15,944	16,259	18,118	18,647
Social sciences	11,130	12,165	13,678	14,502	14,971	16,009	16,899	17,563	18,603
Anthropology	763	859	966	1,063	1,132	1,167	1,096	1,146	1,169
Area and ethnic studies	808	848	912	914	898	923	1,028	1,102	1,154
Economics	557	636	688	763	871	949	936	1,045	1,157
History of science	7	4	6	5	6	4	9	2	4
Linguistics	119	147	189	201	222	245	268	275	303
Political science and public administration	3,692	3,892	4,305	4,633	4,563	4,934	5,271	5,402	5,796
Sociology	3,005	3,353	3,895	3,986	4,178	4,642	4,913	5,263	5,514
Other social sciences	2,179	2,426	2,717	2,937	3,101	3,145	3,378	3,328	3,506
Non-S&E	68,794	74,914	81,190	87,294	92,874	100,485	105,902	113,028	120,125
Not Hispanic or Latino									
All fields	869,563	901,342	915,435	918,742	921,485	923,255	930,805	934,093	941,194

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
S&E	241,189	254,822	261,226	264,292	264,837	267,101	270,690	275,853	280,515
Engineering	12,187	13,069	13,755	15,033	16,079	18,155	20,111	21,735	23,193
Aerospace	380	390	400	383	412	445	443	463	536
Chemical	1,885	2,024	2,107	2,368	2,547	2,891	3,203	3,508	3,413
Civil	2,754	2,829	2,972	2,952	2,982	3,276	3,376	3,614	3,770
Electrical	1,292	1,369	1,512	1,716	1,843	2,144	2,486	2,698	2,999
Industrial	884	934	930	1,068	1,219	1,363	1,561	1,653	1,741
Materials	284	314	371	343	396	430	478	505	543
Mechanical	1,903	2,163	2,250	2,590	2,832	3,287	3,824	4,073	4,635
Other	2,805	3,046	3,213	3,613	3,848	4,319	4,740	5,221	5,556
Science	229,002	241,753	247,471	249,259	248,758	248,946	250,579	254,118	257,322
Natural sciences	82,339	88,359	92,119	95,809	99,555	103,608	107,407	112,028	115,772
Agricultural sciences	10,949	12,413	13,415	13,988	14,474	14,998	15,205	16,023	16,616
Biological sciences	49,322	52,040	53,962	55,919	58,675	61,007	63,072	64,902	66,294
Earth, atmospheric, and ocean sciences	1,924	2,116	2,176	2,288	2,362	2,428	2,452	2,412	2,458
Atmospheric sciences	202	248	230	232	242	219	238	216	231
Earth sciences	1,629	1,771	1,836	1,946	2,025	2,099	2,102	2,098	2,127
Oceanography	93	97	110	110	95	110	112	98	100
Mathematics and computer sciences	13,300	14,562	15,355	16,039	16,693	17,697	18,898	20,809	22,645
Computer sciences	6,657	7,471	7,816	8,501	9,036	10,019	11,150	12,600	14,282
Mathematics and statistics	6,643	7,091	7,539	7,538	7,657	7,678	7,748	8,209	8,363
Physical sciences	6,844	7,228	7,211	7,575	7,351	7,478	7,780	7,882	7,759
Astronomy	123	137	114	143	123	106	150	164	195
Chemistry	5,524	5,854	5,801	6,078	5,949	5,961	6,228	6,241	6,052
Physics	894	928	1,001	1,036	1,021	1,164	1,181	1,267	1,297
Other physical sciences	303	309	295	318	258	247	221	210	215
Social and behavioral sciences	146,663	153,394	155,352	153,450	149,203	145,338	143,172	142,090	141,550
Psychology	67,733	72,174	74,715	75,310	75,075	73,937	73,199	72,098	71,826
Social sciences	78,930	81,220	80,637	78,140	74,128	71,401	69,973	69,992	69,724
Anthropology	6,192	6,975	7,132	6,919	6,124	5,552	5,041	5,034	4,812
Area and ethnic studies	4,109	4,140	3,954	3,597	3,315	3,314	3,183	3,052	3,121
Economics	7,197	6,506	6,499	6,745	7,152	7,302	7,487	7,828	7,794
History of science	71	68	69	74	64	57	53	48	65
Linguistics	1,052	1,196	1,240	1,241	1,273	1,276	1,254	1,221	1,216
Political science and public administration	26,124	26,654	26,128	25,376	24,131	23,317	23,610	23,958	24,702

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Sociology	17,372	17,513	17,288	16,733	15,808	14,985	14,323	14,158	13,922
Other social sciences	16,813	18,168	18,327	17,455	16,261	15,598	15,022	14,693	14,092
Non-S&E	628,374	646,520	654,209	654,450	656,648	656,154	660,115	658,240	660,679
American Indian or Alaska Native									
All fields	6,658	6,559	6,426	6,267	5,841	5,666	5,621	5,460	5,564
S&E	1,885	1,917	1,891	1,763	1,620	1,624	1,562	1,584	1,547
Engineering	83	69	80	82	76	65	59	89	83
Aerospace	2	3	3	4	3	0	3	2	2
Chemical	12	11	11	8	15	10	10	12	11
Civil	26	14	21	21	12	18	15	20	20
Electrical	5	9	12	12	5	3	6	12	10
Industrial	5	8	5	11	6	4	6	9	5
Materials	3	2	0	0	1	3	0	2	1
Mechanical	16	9	9	6	14	13	7	21	21
Other	14	13	19	20	20	14	12	11	13
Science	1,802	1,848	1,811	1,681	1,544	1,559	1,503	1,495	1,464
Natural sciences	539	608	600	568	512	511	513	561	490
Agricultural sciences	98	120	123	106	113	90	105	133	101
Biological sciences	316	361	311	304	264	307	285	273	271
Earth, atmospheric, and ocean sciences	16	18	17	21	17	16	15	18	12
Atmospheric sciences	1	0	1	2	2	0	0	2	1
Earth sciences	15	18	14	18	13	12	13	16	11
Oceanography	0	0	2	1	2	4	2	0	0
Mathematics and computer sciences	72	71	95	84	87	64	72	93	78
Computer sciences	36	50	67	57	62	47	57	62	51
Mathematics and statistics	36	21	28	27	25	17	15	31	27
Physical sciences	37	38	54	53	31	34	36	44	28
Astronomy	0	1	2	0	0	0	0	0	2
Chemistry	28	32	41	48	29	30	30	32	22
Physics	8	4	8	5	1	3	3	10	4
Other physical sciences	1	1	3	0	1	1	3	2	0
Social and behavioral sciences	1,263	1,240	1,211	1,113	1,032	1,048	990	934	974
Psychology	513	530	499	493	453	493	467	413	440
Social sciences	750	710	712	620	579	555	523	521	534
Anthropology	68	69	69	50	46	47	45	43	28

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Area and ethnic studies	107	110	126	119	100	97	90	108	121
Economics	27	28	34	20	20	29	22	16	28
History of science	0	0	0	1	0	0	0	0	1
Linguistics	11	3	8	4	6	6	7	2	2
Political science and public administration	205	188	189	162	163	148	120	150	112
Sociology	166	161	150	137	120	142	133	106	133
Other social sciences	166	151	136	127	124	86	106	96	109
Non-S&E	4,773	4,642	4,535	4,504	4,221	4,042	4,059	3,876	4,017
Asian									
All fields	59,041	61,787	63,680	65,402	66,794	69,477	73,215	77,743	80,249
S&E	24,978	25,995	26,947	27,585	28,271	29,294	31,220	33,587	34,733
Engineering	1,978	2,085	2,235	2,360	2,550	2,969	3,355	3,717	3,907
Aerospace	45	49	61	35	55	48	65	67	72
Chemical	332	371	380	378	430	514	574	648	548
Civil	331	330	375	358	371	412	436	441	481
Electrical	301	333	386	434	456	579	673	780	857
Industrial	121	115	99	114	119	164	199	211	215
Materials	37	55	72	66	69	68	89	102	83
Mechanical	243	273	251	290	341	376	465	522	628
Other	568	559	611	685	709	808	854	946	1,023
Science	23,000	23,910	24,712	25,225	25,721	26,325	27,865	29,870	30,826
Natural sciences	11,295	12,184	12,613	13,261	13,922	14,746	15,889	17,531	18,409
Agricultural sciences	537	633	734	696	746	699	721	812	866
Biological sciences	8,228	8,804	8,985	9,217	9,519	9,948	10,402	11,041	11,170
Earth, atmospheric, and ocean sciences	76	80	83	100	97	124	113	109	150
Atmospheric sciences	3	5	5	5	9	4	7	4	6
Earth sciences	68	70	75	84	83	114	103	98	135
Oceanography	5	5	3	11	5	6	3	7	9
Mathematics and computer sciences	1,421	1,595	1,728	2,031	2,392	2,875	3,475	4,336	5,084
Computer sciences	690	835	903	1,167	1,427	1,855	2,380	3,033	3,713
Mathematics and statistics	731	760	825	864	965	1,020	1,095	1,303	1,371
Physical sciences	1,033	1,072	1,083	1,217	1,168	1,100	1,178	1,233	1,139
Astronomy	8	12	16	9	12	11	11	19	18
Chemistry	917	952	952	1,096	1,031	984	1,047	1,052	963
Physics	86	80	97	79	104	87	107	145	142

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Other physical sciences	22	28	18	33	21	18	13	17	16
Social and behavioral sciences	11,705	11,726	12,099	11,964	11,799	11,579	11,976	12,339	12,417
Psychology	4,452	4,758	4,981	5,089	5,064	5,097	5,402	5,488	5,413
Social sciences	7,253	6,968	7,118	6,875	6,735	6,482	6,574	6,851	7,004
Anthropology	456	493	540	512	443	427	416	414	362
Area and ethnic studies	542	607	532	482	414	420	395	360	393
Economics	1,759	1,590	1,645	1,691	1,734	1,707	1,816	1,916	1,831
History of science	7	6	10	12	5	11	9	10	9
Linguistics	139	148	152	163	168	162	193	176	199
Political science and public administration	2,036	1,938	2,002	1,854	1,811	1,706	1,677	1,801	1,957
Sociology	1,284	1,196	1,188	1,165	1,156	1,061	1,050	1,107	1,180
Other social sciences	1,030	990	1,049	996	1,004	988	1,018	1,067	1,073
Non-S&E	34,063	35,792	36,733	37,817	38,523	40,183	41,995	44,156	45,516
Black or African American									
All fields	106,001	113,611	116,345	116,388	117,189	119,225	120,841	120,379	121,376
S&E	29,472	31,592	32,418	32,598	32,845	33,700	34,216	34,359	34,819
Engineering	809	862	855	933	973	1,054	1,119	1,262	1,323
Aerospace	13	15	13	11	26	26	21	20	23
Chemical	114	139	131	145	133	164	187	206	196
Civil	145	146	140	154	163	181	174	203	189
Electrical	181	193	192	190	194	192	206	227	231
Industrial	94	78	83	83	107	100	97	113	107
Materials	14	14	19	14	21	17	18	13	31
Mechanical	105	116	122	126	134	159	181	202	237
Other	143	161	155	210	195	215	235	278	309
Science	28,663	30,730	31,563	31,665	31,872	32,646	33,097	33,097	33,496
Natural sciences	7,470	8,189	8,438	8,660	8,920	9,457	10,103	10,425	11,090
Agricultural sciences	316	430	446	519	519	596	636	611	693
Biological sciences	4,734	4,973	5,195	5,337	5,662	6,166	6,557	6,660	7,104
Earth, atmospheric, and ocean sciences	40	59	62	62	67	76	67	91	88
Atmospheric sciences	5	9	5	7	4	10	6	14	10
Earth sciences	33	48	53	55	59	60	58	73	75
Oceanography	2	2	4	0	4	6	3	4	3
Mathematics and computer sciences	1,734	1,929	2,006	1,985	1,978	1,935	2,068	2,242	2,443
Computer sciences	1,322	1,464	1,491	1,463	1,462	1,434	1,565	1,725	1,928

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Mathematics and statistics	412	465	515	522	516	501	503	517	515
Physical sciences	646	798	729	757	694	684	775	821	762
Astronomy	0	1	1	2	1	4	3	3	5
Chemistry	581	717	670	675	614	600	695	751	679
Physics	38	43	29	52	47	56	56	49	58
Other physical sciences	27	37	29	28	32	24	21	18	20
Social and behavioral sciences	21,193	22,541	23,125	23,005	22,952	23,189	22,994	22,672	22,406
Psychology	9,449	10,276	10,652	10,878	11,116	11,329	11,336	11,155	11,225
Social sciences	11,744	12,265	12,473	12,127	11,836	11,860	11,658	11,517	11,181
Anthropology	349	384	385	400	364	377	349	329	341
Area and ethnic studies	800	726	622	619	643	633	683	648	671
Economics	521	474	495	493	553	502	553	543	586
History of science	5	15	5	6	6	5	7	10	18
Linguistics	47	62	55	59	56	86	76	84	81
Political science and public administration	3,710	4,053	4,274	4,172	4,007	3,985	4,062	4,089	4,022
Sociology	3,824	3,896	3,887	3,818	3,778	3,615	3,446	3,344	3,212
Other social sciences	2,488	2,655	2,750	2,560	2,429	2,657	2,482	2,470	2,250
Non-S&E	76,529	82,019	83,927	83,790	84,344	85,525	86,625	86,020	86,557
Native Hawaiian or Other Pacific Islander									
All fields	2,540	2,584	2,774	2,955	2,779	2,694	2,637	2,511	2,641
S&E	665	798	758	804	827	725	746	696	728
Engineering	26	37	37	36	33	37	41	34	37
Aerospace	1	1	0	1	1	0	3	1	0
Chemical	3	3	4	2	6	2	6	0	4
Civil	10	16	6	6	5	8	9	5	5
Electrical	5	5	5	4	5	8	5	6	4
Industrial	0	1	7	4	3	0	3	5	6
Materials	0	2	1	2	0	2	1	1	2
Mechanical	3	5	9	5	5	10	6	5	5
Other	4	4	5	12	8	7	8	11	11
Science	639	761	721	768	794	688	705	662	691
Natural sciences	200	258	242	297	277	237	231	270	253
Agricultural sciences	18	29	33	51	46	25	38	36	26
Biological sciences	132	154	143	168	145	130	137	166	155
Earth, atmospheric, and ocean sciences	1	1	6	2	6	3	7	5	4

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Atmospheric sciences	0	0	0	1	2	1	1	0	1
Earth sciences	1	1	5	0	4	2	6	5	2
Oceanography	0	0	1	1	0	0	0	0	1
Mathematics and computer sciences	30	58	40	55	64	59	36	42	56
Computer sciences	14	39	25	37	47	49	29	27	45
Mathematics and statistics	16	19	15	18	17	10	7	15	11
Physical sciences	19	16	20	21	16	20	13	21	12
Astronomy	0	0	0	0	0	1	1	0	1
Chemistry	15	14	16	12	13	15	12	19	9
Physics	3	1	4	2	2	3	0	2	2
Other physical sciences	1	1	0	7	1	1	0	0	0
Social and behavioral sciences	439	503	479	471	517	451	474	392	438
Psychology	157	171	193	207	216	207	227	170	193
Social sciences	282	332	286	264	301	244	247	222	245
Anthropology	18	24	15	24	20	19	9	14	19
Area and ethnic studies	24	24	25	20	20	15	21	17	17
Economics	20	15	13	12	14	11	17	10	17
History of science	0	0	0	0	1	0	0	0	0
Linguistics	3	3	3	3	4	2	0	3	2
Political science and public administration	105	111	92	100	110	81	109	73	81
Sociology	58	69	51	53	63	52	32	51	43
Other social sciences	54	86	87	52	69	64	59	54	66
Non-S&E	1,875	1,786	2,016	2,151	1,952	1,969	1,891	1,815	1,913
White									
All fields	618,578	635,910	646,667	647,404	646,445	645,734	648,136	649,703	649,911
S&E	163,031	171,257	176,127	177,806	176,865	177,592	178,350	181,319	183,275
Engineering	8,374	9,096	9,579	10,508	11,206	12,523	13,848	14,840	15,839
Aerospace	293	293	295	300	300	325	310	323	388
Chemical	1,322	1,384	1,460	1,649	1,788	1,978	2,197	2,374	2,372
Civil	2,012	2,126	2,194	2,151	2,200	2,415	2,452	2,646	2,799
Electrical	693	730	800	948	1,027	1,166	1,358	1,426	1,604
Industrial	606	670	676	798	898	994	1,139	1,199	1,277
Materials	214	210	255	236	275	303	322	342	376
Mechanical	1,391	1,610	1,693	1,976	2,086	2,432	2,823	2,979	3,317
Other	1,843	2,073	2,206	2,450	2,632	2,910	3,247	3,551	3,706

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Science	154,657	162,161	166,548	167,298	165,659	165,069	164,502	166,479	167,436
Natural sciences	56,323	60,185	63,004	65,384	67,674	70,210	71,788	74,170	75,753
Agricultural sciences	9,103	10,274	11,119	11,550	11,967	12,412	12,510	13,167	13,631
Biological sciences	32,399	34,001	35,315	36,615	38,303	39,771	40,748	41,692	42,194
Earth, atmospheric, and ocean sciences	1,634	1,794	1,860	1,927	2,012	2,032	2,052	1,973	1,993
Atmospheric sciences	178	223	206	205	211	190	208	179	194
Earth sciences	1,376	1,487	1,557	1,632	1,721	1,759	1,752	1,712	1,724
Oceanography	80	84	97	90	80	83	92	82	75
Mathematics and computer sciences	8,617	9,382	9,929	10,320	10,502	10,978	11,348	12,189	12,767
Computer sciences	3,625	4,000	4,288	4,727	4,952	5,441	5,879	6,479	7,014
Mathematics and statistics	4,992	5,382	5,641	5,593	5,550	5,537	5,469	5,710	5,753
Physical sciences	4,570	4,734	4,781	4,972	4,890	5,017	5,130	5,149	5,168
Astronomy	108	110	85	114	100	73	109	131	145
Chemistry	3,617	3,716	3,702	3,821	3,832	3,876	3,967	3,922	3,889
Physics	674	702	786	811	774	896	889	944	974
Other physical sciences	171	206	208	226	184	172	165	152	160
Social and behavioral sciences	98,334	101,976	103,544	101,914	97,985	94,859	92,714	92,309	91,683
Psychology	47,593	50,221	52,381	52,384	51,604	50,295	49,123	48,515	48,102
Social sciences	50,741	51,755	51,163	49,530	46,381	44,564	43,591	43,794	43,581
Anthropology	4,638	5,240	5,402	5,192	4,609	4,078	3,702	3,706	3,549
Area and ethnic studies	2,213	2,151	2,173	1,960	1,743	1,766	1,553	1,522	1,551
Economics	4,142	3,751	3,694	3,924	4,104	4,317	4,321	4,615	4,541
History of science	53	41	45	50	46	39	31	21	27
Linguistics	734	843	890	877	880	864	830	828	821
Political science and public administration	17,098	16,988	16,352	16,000	15,213	14,921	15,208	15,544	16,078
Sociology	10,611	10,741	10,557	10,112	9,224	8,704	8,299	8,249	8,008
Other social sciences	11,252	12,000	12,050	11,415	10,562	9,875	9,647	9,309	9,006
Non-S&E	455,547	464,653	470,540	469,598	469,580	468,142	469,786	468,384	466,636
More than one race									
All fields	11,865	15,251	19,115	25,879	30,412	34,897	37,921	40,295	41,963
S&E	3,949	5,216	6,633	9,368	10,748	12,309	13,249	14,415	15,093
Engineering	233	259	328	510	676	890	965	1,101	1,231
Aerospace	4	10	10	17	18	28	25	29	30
Chemical	35	35	40	81	93	127	121	152	173
Civil	48	51	79	104	120	141	163	172	173

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Electrical	28	25	40	58	73	112	135	137	169
Industrial	19	19	19	26	47	59	61	74	83
Materials	4	8	6	15	20	27	28	35	32
Mechanical	37	40	52	82	148	172	201	226	266
Other	58	71	82	127	157	224	231	276	305
Science	3,716	4,957	6,305	8,858	10,072	11,419	12,284	13,314	13,862
Natural sciences	1,152	1,600	2,069	3,175	3,826	4,412	4,873	5,562	5,908
Agricultural sciences	134	229	301	470	522	656	678	813	813
Biological sciences	689	958	1,219	1,884	2,353	2,561	2,865	3,231	3,390
Earth, atmospheric, and ocean sciences	30	54	60	86	86	94	108	154	144
Atmospheric sciences	1	2	5	6	9	8	7	14	10
Earth sciences	27	48	54	74	74	80	92	138	123
Oceanography	2	4	1	6	3	6	9	2	11
Mathematics and computer sciences	194	225	335	479	597	773	845	978	1,140
Computer sciences	98	131	183	262	338	490	528	629	751
Mathematics and statistics	96	94	152	217	259	283	317	349	389
Physical sciences	105	134	154	256	268	328	377	386	421
Astronomy	3	4	5	10	7	11	20	9	18
Chemistry	75	100	118	198	209	245	272	290	315
Physics	21	26	21	39	44	59	77	75	77
Other physical sciences	6	4	10	9	8	13	8	12	11
Social and behavioral sciences	2,564	3,357	4,236	5,683	6,246	7,007	7,411	7,752	7,954
Psychology	1,147	1,453	1,832	2,561	2,890	3,235	3,421	3,634	3,738
Social sciences	1,417	1,904	2,404	3,122	3,356	3,772	3,990	4,118	4,216
Anthropology	140	216	264	387	353	376	373	361	362
Area and ethnic studies	154	170	214	228	219	249	302	287	267
Economics	121	121	151	210	297	322	366	376	381
History of science	3	3	3	3	3	2	5	4	7
Linguistics	29	34	47	69	76	88	93	85	67
Political science and public administration	431	602	745	923	1,021	1,185	1,265	1,317	1,438
Sociology	306	419	536	657	709	800	792	859	862
Other social sciences	233	339	444	645	678	750	794	829	832
Non-S&E	7,916	10,035	12,482	16,511	19,664	22,588	24,672	25,880	26,870
Other or unknown race or ethnicity									
All fields	64,880	65,640	60,428	54,447	52,025	45,562	42,434	38,002	39,490

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
S&E	17,209	18,047	16,452	14,368	13,661	11,857	11,347	9,893	10,320
Engineering	684	661	641	604	565	617	724	692	773
Aerospace	22	19	18	15	9	18	16	21	21
Chemical	67	81	81	105	82	96	108	116	109
Civil	182	146	157	158	111	101	127	127	103
Electrical	79	74	77	70	83	84	103	110	124
Industrial	39	43	41	32	39	42	56	42	48
Materials	12	23	18	10	10	10	20	10	18
Mechanical	108	110	114	105	104	125	141	118	161
Other	175	165	135	109	127	141	153	148	189
Science	16,525	17,386	15,811	13,764	13,096	11,240	10,623	9,201	9,547
Natural sciences	5,360	5,335	5,153	4,464	4,424	4,035	4,010	3,509	3,869
Agricultural sciences	743	698	659	596	561	520	517	451	486
Biological sciences	2,824	2,789	2,794	2,394	2,429	2,124	2,078	1,839	2,010
Earth, atmospheric, and ocean sciences	127	110	88	90	77	83	90	62	67
Atmospheric sciences	14	9	8	6	5	6	9	3	9
Earth sciences	109	99	78	83	71	72	78	56	57
Oceanography	4	2	2	1	1	5	3	3	1
Mathematics and computer sciences	1,232	1,302	1,222	1,085	1,073	1,013	1,054	929	1,077
Computer sciences	872	952	859	788	748	703	712	645	780
Mathematics and statistics	360	350	363	297	325	310	342	284	297
Physical sciences	434	436	390	299	284	295	271	228	229
Astronomy	4	9	5	8	3	6	6	2	6
Chemistry	291	323	302	228	221	211	205	175	175
Physics	64	72	56	48	49	60	49	42	40
Other physical sciences	75	32	27	15	11	18	11	9	8
Social and behavioral sciences	11,165	12,051	10,658	9,300	8,672	7,205	6,613	5,692	5,678
Psychology	4,422	4,765	4,177	3,698	3,732	3,281	3,223	2,723	2,715
Social sciences	6,743	7,286	6,481	5,602	4,940	3,924	3,390	2,969	2,963
Anthropology	523	549	457	354	289	228	147	167	151
Area and ethnic studies	269	352	262	169	176	134	139	110	101
Economics	607	527	467	395	430	414	392	352	410
History of science	3	3	6	2	3	0	1	3	3
Linguistics	89	103	85	66	83	68	55	43	44
Political science and public administration	2,539	2,774	2,474	2,165	1,806	1,291	1,169	984	1,014

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Sociology	1,123	1,031	919	791	758	611	571	442	484
Other social sciences	1,590	1,947	1,811	1,660	1,395	1,178	916	868	756
Non-S&E	47,671	47,593	43,976	40,079	38,364	33,705	31,087	28,109	29,170
Temporary visa holder									
All fields	26,500	29,881	32,531	34,320	36,958	40,369	42,887	45,740	47,509
S&E	8,903	10,185	11,446	12,476	13,712	15,534	16,885	18,862	20,152
Engineering	1,064	1,301	1,456	1,639	1,769	2,123	2,391	2,697	2,774
Aerospace	29	28	32	54	29	48	55	54	59
Chemical	225	267	319	342	363	416	485	515	477
Civil	132	177	212	236	252	317	371	393	444
Electrical	273	336	348	370	416	480	430	591	561
Industrial	95	136	147	175	180	229	260	249	263
Materials	18	24	37	39	46	65	74	74	54
Mechanical	93	129	152	168	201	255	326	381	426
Other	199	204	209	255	282	313	390	440	490
Science	7,839	8,884	9,990	10,837	11,943	13,411	14,494	16,165	17,378
Natural sciences	3,311	3,723	4,263	4,519	4,972	5,817	6,716	7,851	8,850
Agricultural sciences	188	219	315	342	369	385	419	489	568
Biological sciences	1,711	1,711	1,851	1,764	1,826	2,077	2,311	2,540	2,775
Earth, atmospheric, and ocean sciences	34	41	56	94	97	94	100	132	120
Atmospheric sciences	0	2	6	5	5	2	10	6	10
Earth sciences	34	37	48	86	92	86	90	124	109
Oceanography	0	2	2	3	0	6	0	2	1
Mathematics and computer sciences	995	1,348	1,571	1,829	2,169	2,701	3,264	4,065	4,708
Computer sciences	395	488	483	636	783	984	1,234	1,861	2,271
Mathematics and statistics	600	860	1,088	1,193	1,386	1,717	2,030	2,204	2,437
Physical sciences	383	404	470	490	511	560	622	625	679
Astronomy	5	6	7	14	6	14	11	16	20
Chemistry	305	308	364	394	406	449	459	456	484
Physics	61	78	84	69	90	86	147	148	168
Other physical sciences	12	12	15	13	9	11	5	5	7
Social and behavioral sciences	4,528	5,161	5,727	6,318	6,971	7,594	7,778	8,314	8,528
Psychology	1,274	1,557	1,657	1,837	1,935	2,188	2,287	2,485	2,583
Social sciences	3,254	3,604	4,070	4,481	5,036	5,406	5,491	5,829	5,945
Anthropology	69	93	77	101	95	100	98	107	125

Table SHED-5

Bachelor's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Area and ethnic studies	137	157	121	172	165	183	180	218	201
Economics	1,433	1,638	1,998	2,254	2,637	2,862	2,919	2,975	3,040
History of science	0	1	2	2	2	1	1	3	3
Linguistics	64	77	63	75	80	84	81	107	97
Political science and public administration	961	968	1,040	1,073	1,096	1,145	1,197	1,286	1,237
Sociology	249	303	339	355	403	433	428	501	593
Other social sciences	341	367	430	449	558	598	587	632	649
Non-S&E	17,597	19,696	21,085	21,844	23,246	24,835	26,002	26,878	27,357

Note(s):

Racial and ethnic breakouts include U.S. citizens and permanent residents only; temporary visa holder includes all racial and ethnic groups. Hispanic may be any race, and 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, Table Builder.

Science and Engineering Indicators

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Both sexes									
All citizenships, races, and ethnicity									
All fields	736,455	759,538	756,975	759,796	763,980	791,237	810,108	825,621	839,563
S&E	150,653	161,372	166,397	171,228	180,955	198,292	206,172	208,427	209,566
Engineering	41,282	43,175	43,388	45,362	49,207	55,166	56,971	55,982	53,075
Aerospace	1,306	1,408	1,266	1,311	1,318	1,438	1,580	1,620	1,630
Chemical	1,741	1,911	1,932	2,092	2,278	2,306	2,441	2,542	2,321
Civil	5,915	6,405	6,486	6,691	6,573	6,921	6,993	7,252	6,991
Electrical	12,545	12,642	12,473	13,112	15,763	18,733	17,978	16,199	14,923
Industrial	5,083	5,346	5,327	5,605	5,631	6,630	7,759	7,720	6,622
Materials	894	990	1,099	1,170	1,164	1,308	1,371	1,447	1,439
Mechanical	5,938	5,977	5,991	6,285	6,954	7,665	8,386	8,270	7,910
Other	7,860	8,496	8,814	9,096	9,526	10,165	10,463	10,932	11,239
Science	109,371	118,197	123,009	125,866	131,748	143,126	149,201	152,445	156,491
Natural sciences	48,346	52,613	55,873	58,908	66,939	77,883	86,220	89,350	91,100
Agricultural sciences	5,148	5,843	5,757	5,916	5,792	6,043	6,119	6,444	6,754
Biological sciences	11,214	12,313	13,048	13,731	14,370	15,370	16,253	17,222	18,054
Earth, atmospheric, and ocean sciences	1,789	2,049	2,080	2,197	2,212	2,133	2,182	2,059	2,093
Atmospheric sciences	221	240	233	263	253	220	236	238	217
Earth sciences	1,429	1,656	1,705	1,782	1,812	1,760	1,780	1,668	1,732
Oceanography	139	153	142	152	147	153	166	153	144
Mathematics and computer sciences	25,722	27,699	30,179	32,419	39,821	49,601	56,909	58,701	59,393
Computer sciences	19,519	21,015	22,833	24,635	31,552	40,211	46,615	46,548	45,754
Mathematics and statistics	6,203	6,684	7,346	7,784	8,269	9,390	10,294	12,153	13,639
Physical sciences	4,473	4,709	4,809	4,645	4,744	4,736	4,757	4,924	4,806
Astronomy	185	127	170	160	156	140	169	145	225
Chemistry	2,324	2,493	2,478	2,431	2,491	2,513	2,557	2,459	2,415
Physics	1,771	1,879	1,984	1,876	1,934	1,959	1,852	2,156	1,971
Other physical sciences	193	210	177	178	163	124	179	164	195
Social and behavioral sciences	61,025	65,584	67,136	66,958	64,809	65,243	62,981	63,095	65,391
Psychology	22,363	24,121	25,140	25,332	24,029	25,041	24,653	25,128	26,388
Social sciences	38,662	41,463	41,996	41,626	40,780	40,202	38,328	37,967	39,003
Anthropology	1,243	1,279	1,195	1,316	1,258	1,204	1,163	1,227	1,124
Area and ethnic studies	1,880	1,857	1,874	1,791	1,858	1,840	1,723	1,635	1,514
Economics	4,173	4,331	4,287	4,541	4,432	4,378	4,535	4,442	4,759

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
History of science	44	37	33	28	26	35	32	30	34
Linguistics	711	789	782	728	779	778	687	678	662
Political science and public administration	24,128	26,091	26,762	26,321	25,786	25,501	23,381	23,098	23,908
Sociology	1,640	1,810	1,652	1,661	1,481	1,419	1,442	1,470	1,504
Other social sciences	4,843	5,269	5,411	5,240	5,160	5,047	5,365	5,387	5,498
Non-S&E	585,802	598,166	590,578	588,568	583,025	592,945	603,936	617,194	629,997
U.S. citizen or permanent resident									
All fields	650,538	670,311	662,486	655,968	646,832	655,251	664,628	680,537	701,410
S&E	111,438	120,430	123,136	123,884	122,231	124,355	124,686	128,417	134,940
Engineering	23,895	25,591	25,469	25,471	24,747	24,742	24,958	25,745	26,351
Aerospace	974	1,079	979	991	983	1,040	1,147	1,128	1,227
Chemical	830	916	875	949	1,015	984	1,088	1,113	1,016
Civil	4,296	4,657	4,658	4,583	4,077	4,035	3,771	3,870	3,873
Electrical	5,155	5,089	4,937	4,838	4,656	4,601	4,617	4,561	4,806
Industrial	2,839	3,114	3,129	3,188	2,896	2,946	2,961	3,156	3,035
Materials	488	536	578	575	559	657	645	688	716
Mechanical	3,728	3,830	3,802	3,825	3,950	3,797	3,939	4,051	4,269
Other	5,585	6,370	6,511	6,522	6,611	6,682	6,790	7,178	7,409
Science	87,543	94,839	97,667	98,413	97,484	99,613	99,728	102,672	108,589
Natural sciences	32,941	35,861	37,862	39,137	40,387	42,401	44,992	47,895	51,915
Agricultural sciences	4,514	5,161	5,018	5,114	4,999	5,163	5,198	5,410	5,714
Biological sciences	9,313	10,265	11,003	11,586	12,043	13,061	13,772	14,638	15,541
Earth, atmospheric, and ocean sciences	1,563	1,733	1,763	1,854	1,864	1,780	1,800	1,761	1,806
Atmospheric sciences	200	201	201	219	204	176	183	190	173
Earth sciences	1,242	1,396	1,434	1,502	1,530	1,471	1,474	1,434	1,510
Oceanography	121	136	128	133	130	133	143	137	123
Mathematics and computer sciences	14,551	15,611	16,845	17,501	18,376	19,266	21,092	22,815	25,504
Computer sciences	10,786	11,650	12,725	13,409	14,199	14,900	16,542	17,731	19,799
Mathematics and statistics	3,765	3,961	4,120	4,092	4,177	4,366	4,550	5,084	5,705
Physical sciences	3,000	3,091	3,233	3,082	3,105	3,131	3,130	3,271	3,350
Astronomy	134	104	137	119	122	115	132	110	174
Chemistry	1,532	1,627	1,604	1,555	1,615	1,656	1,705	1,672	1,738
Physics	1,159	1,191	1,357	1,267	1,244	1,272	1,158	1,371	1,302
Other physical sciences	175	169	135	141	124	88	135	118	136
Social and behavioral sciences	54,602	58,978	59,805	59,276	57,097	57,212	54,736	54,777	56,674

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Psychology	21,649	23,337	24,212	24,491	23,209	24,054	23,717	24,158	25,388
Social sciences	32,953	35,641	35,593	34,785	33,888	33,158	31,019	30,619	31,286
Anthropology	1,158	1,184	1,089	1,215	1,149	1,105	1,049	1,113	1,002
Area and ethnic studies	1,619	1,604	1,582	1,480	1,564	1,515	1,423	1,346	1,237
Economics	2,325	2,459	2,194	2,188	2,093	2,064	2,038	1,962	2,068
History of science	39	32	26	21	22	32	30	21	28
Linguistics	536	597	594	549	537	564	472	499	482
Political science and public administration	21,338	23,310	23,655	23,044	22,509	22,086	19,965	19,681	20,374
Sociology	1,476	1,638	1,481	1,492	1,318	1,242	1,287	1,286	1,292
Other social sciences	4,462	4,817	4,972	4,796	4,696	4,550	4,755	4,711	4,803
Non-S&E	539,100	549,881	539,350	532,084	524,601	530,896	539,942	552,120	566,470
Hispanic or Latino									
All fields	46,594	50,398	52,804	56,007	58,619	63,063	67,353	72,630	78,915
S&E	8,411	9,449	10,161	10,893	11,392	12,330	13,092	14,025	15,356
Engineering	1,709	1,985	2,075	2,209	2,290	2,214	2,426	2,552	2,761
Aerospace	61	68	81	78	88	74	113	115	121
Chemical	53	58	62	65	96	79	94	81	87
Civil	318	405	425	467	445	445	452	428	511
Electrical	373	363	334	380	391	389	420	424	478
Industrial	327	406	394	445	397	378	423	434	411
Materials	34	35	51	45	44	35	58	58	68
Mechanical	222	277	295	305	334	349	390	415	423
Other	321	373	433	424	495	465	476	597	662
Science	6,702	7,464	8,086	8,684	9,102	10,116	10,666	11,473	12,595
Natural sciences	1,975	2,259	2,422	2,667	2,920	3,363	3,647	4,192	4,845
Agricultural sciences	264	302	295	305	314	383	382	420	477
Biological sciences	581	677	754	872	916	1,165	1,341	1,447	1,694
Earth, atmospheric, and ocean sciences	81	83	80	97	104	113	118	142	144
Atmospheric sciences	9	9	8	15	12	8	7	12	8
Earth sciences	66	72	68	77	86	93	105	123	130
Oceanography	6	2	4	5	6	12	6	7	6
Mathematics and computer sciences	875	1,043	1,106	1,196	1,354	1,459	1,554	1,888	2,172
Computer sciences	659	810	815	921	1,056	1,160	1,231	1,472	1,686
Mathematics and statistics	216	233	291	275	298	299	323	416	486
Physical sciences	174	154	187	197	232	243	252	295	358

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Astronomy	6	4	5	5	5	10	7	7	20
Chemistry	107	82	99	116	123	135	149	169	180
Physics	54	65	77	71	100	92	89	111	146
Other physical sciences	7	3	6	5	4	6	7	8	12
Social and behavioral sciences	4,727	5,205	5,664	6,017	6,182	6,753	7,019	7,281	7,750
Psychology	2,051	2,147	2,547	2,566	2,664	3,063	3,157	3,341	3,641
Social sciences	2,676	3,058	3,117	3,451	3,518	3,690	3,862	3,940	4,109
Anthropology	89	81	108	85	98	101	110	120	119
Area and ethnic studies	187	225	215	250	248	358	268	273	216
Economics	152	161	160	146	164	173	178	165	185
History of science	1	3	2	1	2	1	0	1	2
Linguistics	42	58	56	59	50	59	55	60	63
Political science and public administration	1,706	1,965	2,019	2,308	2,305	2,356	2,473	2,523	2,736
Sociology	166	201	177	209	192	197	197	225	228
Other social sciences	333	364	380	393	459	445	581	573	560
Non-S&E	38,183	40,949	42,643	45,114	47,227	50,733	54,261	58,605	63,559
Not Hispanic or Latino									
All fields	603,944	619,913	609,682	599,961	588,213	592,188	597,275	607,907	622,495
S&E	103,027	110,981	112,975	112,991	110,839	112,025	111,594	114,392	119,584
Engineering	22,186	23,606	23,394	23,262	22,457	22,528	22,532	23,193	23,590
Aerospace	913	1,011	898	913	895	966	1,034	1,013	1,106
Chemical	777	858	813	884	919	905	994	1,032	929
Civil	3,978	4,252	4,233	4,116	3,632	3,590	3,319	3,442	3,362
Electrical	4,782	4,726	4,603	4,458	4,265	4,212	4,197	4,137	4,328
Industrial	2,512	2,708	2,735	2,743	2,499	2,568	2,538	2,722	2,624
Materials	454	501	527	530	515	622	587	630	648
Mechanical	3,506	3,553	3,507	3,520	3,616	3,448	3,549	3,636	3,846
Other	5,264	5,997	6,078	6,098	6,116	6,217	6,314	6,581	6,747
Science	80,841	87,375	89,581	89,729	88,382	89,497	89,062	91,199	95,994
Natural sciences	30,966	33,602	35,440	36,470	37,467	39,038	41,345	43,703	47,070
Agricultural sciences	4,250	4,859	4,723	4,809	4,685	4,780	4,816	4,990	5,237
Biological sciences	8,732	9,588	10,249	10,714	11,127	11,896	12,431	13,191	13,847
Earth, atmospheric, and ocean sciences	1,482	1,650	1,683	1,757	1,760	1,667	1,682	1,619	1,662
Atmospheric sciences	191	192	193	204	192	168	176	178	165
Earth sciences	1,176	1,324	1,366	1,425	1,444	1,378	1,369	1,311	1,380

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Oceanography	115	134	124	128	124	121	137	130	117
Mathematics and computer sciences	13,676	14,568	15,739	16,305	17,022	17,807	19,538	20,927	23,332
Computer sciences	10,127	10,840	11,910	12,488	13,143	13,740	15,311	16,259	18,113
Mathematics and statistics	3,549	3,728	3,829	3,817	3,879	4,067	4,227	4,668	5,219
Physical sciences	2,826	2,937	3,046	2,885	2,873	2,888	2,878	2,976	2,992
Astronomy	128	100	132	114	117	105	125	103	154
Chemistry	1,425	1,545	1,505	1,439	1,492	1,521	1,556	1,503	1,558
Physics	1,105	1,126	1,280	1,196	1,144	1,180	1,069	1,260	1,156
Other physical sciences	168	166	129	136	120	82	128	110	124
Social and behavioral sciences	49,875	53,773	54,141	53,259	50,915	50,459	47,717	47,496	48,924
Psychology	19,598	21,190	21,665	21,925	20,545	20,991	20,560	20,817	21,747
Social sciences	30,277	32,583	32,476	31,334	30,370	29,468	27,157	26,679	27,177
Anthropology	1,069	1,103	981	1,130	1,051	1,004	939	993	883
Area and ethnic studies	1,432	1,379	1,367	1,230	1,316	1,157	1,155	1,073	1,021
Economics	2,173	2,298	2,034	2,042	1,929	1,891	1,860	1,797	1,883
History of science	38	29	24	20	20	31	30	20	26
Linguistics	494	539	538	490	487	505	417	439	419
Political science and public administration	19,632	21,345	21,636	20,736	20,204	19,730	17,492	17,158	17,638
Sociology	1,310	1,437	1,304	1,283	1,126	1,045	1,090	1,061	1,064
Other social sciences	4,129	4,453	4,592	4,403	4,237	4,105	4,174	4,138	4,243
Non-S&E	500,917	508,932	496,707	486,970	477,374	480,163	485,681	493,515	502,911
American Indian or Alaska Native									
All fields	3,507	3,282	3,350	3,188	3,116	3,244	3,142	3,084	3,211
S&E	584	603	597	589	548	583	618	573	553
Engineering	78	92	79	55	59	80	77	70	67
Aerospace	3	1	6	3	3	2	3	4	5
Chemical	2	2	1	0	3	3	6	2	4
Civil	16	17	14	12	9	13	5	13	9
Electrical	10	15	11	6	8	16	14	9	9
Industrial	15	20	13	10	11	12	15	11	11
Materials	0	3	3	0	2	0	0	0	2
Mechanical	13	13	10	8	5	11	9	8	8
Other	19	21	21	16	18	23	25	23	19
Science	506	511	518	534	489	503	541	503	486
Natural sciences	161	173	160	146	158	144	166	134	170

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Agricultural sciences	34	34	36	20	40	26	33	35	35
Biological sciences	40	48	39	49	43	24	43	33	58
Earth, atmospheric, and ocean sciences	13	17	15	4	6	12	7	2	8
Atmospheric sciences	2	0	2	0	0	0	1	0	0
Earth sciences	10	16	12	3	6	12	6	2	8
Oceanography	1	1	1	1	0	0	0	0	0
Mathematics and computer sciences	62	63	54	61	62	68	77	55	59
Computer sciences	48	52	45	56	53	59	72	49	51
Mathematics and statistics	14	11	9	5	9	9	5	6	8
Physical sciences	12	11	16	12	7	14	6	9	10
Astronomy	2	0	1	0	0	1	0	1	0
Chemistry	5	6	10	7	4	3	3	7	5
Physics	3	4	5	4	3	9	3	1	4
Other physical sciences	2	1	0	1	0	1	0	0	1
Social and behavioral sciences	345	338	358	388	331	359	375	369	316
Psychology	116	112	140	154	119	132	129	131	124
Social sciences	229	226	218	234	212	227	246	238	192
Anthropology	14	14	12	13	5	10	17	10	9
Area and ethnic studies	23	29	28	22	36	42	66	64	56
Economics	8	4	8	4	2	6	3	6	4
History of science	0	0	0	2	1	0	0	0	0
Linguistics	7	5	6	6	2	9	4	1	3
Political science and public administration	137	134	134	161	142	137	129	133	94
Sociology	8	15	7	6	7	4	7	6	4
Other social sciences	32	25	23	20	17	19	20	18	22
Non-S&E	2,923	2,679	2,753	2,599	2,568	2,661	2,524	2,511	2,658
Asian									
All fields	37,473	39,001	38,950	38,800	39,188	40,628	42,815	45,066	47,167
S&E	10,347	10,539	10,992	10,785	10,976	11,643	12,837	13,027	13,960
Engineering	3,942	3,792	3,867	3,574	3,469	3,599	3,661	3,691	3,937
Aerospace	109	126	111	110	98	108	107	147	148
Chemical	153	164	153	171	174	207	195	178	186
Civil	481	511	501	478	406	425	371	435	441
Electrical	1,430	1,264	1,326	1,089	1,083	1,124	1,062	1,038	1,106
Industrial	362	330	376	325	290	272	309	329	330

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Materials	73	67	102	98	94	99	108	98	103
Mechanical	466	428	433	432	475	471	505	474	591
Other	868	902	865	871	849	893	1,004	992	1,032
Science	6,405	6,747	7,125	7,211	7,507	8,044	9,176	9,336	10,023
Natural sciences	3,912	3,996	4,390	4,553	4,941	5,507	6,426	6,633	7,200
Agricultural sciences	199	218	184	185	166	161	184	197	198
Biological sciences	1,244	1,416	1,554	1,623	1,723	1,789	1,938	2,104	2,245
Earth, atmospheric, and ocean sciences	37	39	41	42	53	58	43	60	65
Atmospheric sciences	6	5	5	4	5	4	2	10	4
Earth sciences	27	34	27	34	45	48	36	47	59
Oceanography	4	0	9	4	3	6	5	3	2
Mathematics and computer sciences	2,128	2,070	2,297	2,425	2,727	3,195	3,958	3,967	4,391
Computer sciences	1,618	1,567	1,738	1,881	2,174	2,599	3,250	3,177	3,491
Mathematics and statistics	510	503	559	544	553	596	708	790	900
Physical sciences	304	253	314	278	272	304	303	305	301
Astronomy	8	6	14	9	10	9	9	8	16
Chemistry	206	171	202	195	183	198	184	196	192
Physics	80	72	93	71	73	94	101	95	87
Other physical sciences	10	4	5	3	6	3	9	6	6
Social and behavioral sciences	2,493	2,751	2,735	2,658	2,566	2,537	2,750	2,703	2,823
Psychology	753	874	908	885	833	883	903	1,014	1,083
Social sciences	1,740	1,877	1,827	1,773	1,733	1,654	1,847	1,689	1,740
Anthropology	43	38	27	38	39	45	26	40	25
Area and ethnic studies	100	100	108	96	88	81	117	76	86
Economics	219	272	230	211	231	200	219	208	204
History of science	1	2	1	2	2	0	1	1	2
Linguistics	38	41	44	45	27	49	31	34	40
Political science and public administration	1,077	1,135	1,140	1,138	1,104	1,041	1,154	1,032	1,082
Sociology	86	84	81	58	61	48	79	58	62
Other social sciences	176	205	196	185	181	190	220	240	239
Non-S&E	27,126	28,462	27,958	28,015	28,212	28,985	29,978	32,039	33,207
Black or African American									
All fields	71,393	75,931	79,618	80,576	79,680	81,382	82,908	84,837	86,613
S&E	10,961	12,063	13,112	13,280	13,239	13,334	13,160	13,814	14,295
Engineering	1,180	1,245	1,255	1,228	1,323	1,269	1,247	1,268	1,337

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Aerospace	25	18	22	29	18	26	26	30	31
Chemical	42	48	66	50	62	52	52	49	50
Civil	152	169	177	161	148	178	160	137	160
Electrical	291	254	251	235	258	265	244	236	248
Industrial	232	230	233	239	256	241	235	244	250
Materials	14	19	17	21	21	31	22	24	34
Mechanical	104	116	100	104	115	106	106	123	130
Other	320	391	389	389	445	370	402	425	434
Science	9,781	10,818	11,857	12,052	11,916	12,065	11,913	12,546	12,958
Natural sciences	2,322	2,652	3,108	3,140	3,337	3,492	3,816	4,244	4,751
Agricultural sciences	180	166	187	190	189	196	202	224	239
Biological sciences	599	673	752	785	847	932	1,074	1,209	1,403
Earth, atmospheric, and ocean sciences	29	38	45	39	45	30	36	46	44
Atmospheric sciences	4	4	6	6	4	3	4	5	2
Earth sciences	25	33	37	33	40	27	30	40	38
Oceanography	0	1	2	0	1	0	2	1	4
Mathematics and computer sciences	1,376	1,601	1,983	1,994	2,117	2,207	2,364	2,633	2,933
Computer sciences	1,212	1,420	1,776	1,801	1,913	1,998	2,152	2,399	2,646
Mathematics and statistics	164	181	207	193	204	209	212	234	287
Physical sciences	138	174	141	132	139	127	140	132	132
Astronomy	0	2	1	3	1	0	1	3	4
Chemistry	93	129	84	102	97	89	94	83	81
Physics	40	34	49	22	34	33	40	40	38
Other physical sciences	5	9	7	5	7	5	5	6	9
Social and behavioral sciences	7,459	8,166	8,749	8,912	8,579	8,573	8,097	8,302	8,207
Psychology	2,856	3,127	3,179	3,313	3,089	3,237	3,271	3,358	3,465
Social sciences	4,603	5,039	5,570	5,599	5,490	5,336	4,826	4,944	4,742
Anthropology	30	42	32	31	28	34	29	45	42
Area and ethnic studies	184	157	142	142	149	141	144	156	141
Economics	121	120	149	124	134	124	113	133	145
History of science	0	0	1	2	1	3	1	1	3
Linguistics	18	17	16	18	21	19	20	15	20
Political science and public administration	3,507	3,950	4,319	4,312	4,239	4,147	3,580	3,680	3,566
Sociology	198	203	220	250	197	159	180	215	185
Other social sciences	545	550	691	720	721	709	759	699	640

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Non-S&E	60,432	63,868	66,506	67,296	66,441	68,048	69,748	71,023	72,318
Native Hawaiian or Other Pacific Islander									
All fields	1,272	1,521	1,687	1,755	1,519	1,514	1,537	1,559	1,465
S&E	230	238	255	273	269	233	294	260	219
Engineering	19	38	34	35	35	26	41	30	24
Aerospace	0	2	1	1	0	0	2	1	1
Chemical	0	2	1	1	0	0	0	1	1
Civil	4	8	9	4	7	5	8	11	6
Electrical	5	2	7	5	9	8	6	3	2
Industrial	0	8	2	9	2	4	6	3	6
Materials	1	0	3	0	0	0	1	1	0
Mechanical	2	4	5	0	5	4	7	2	0
Other	7	12	6	15	12	5	11	8	8
Science	211	200	221	238	234	207	253	230	195
Natural sciences	68	61	70	70	78	64	82	78	70
Agricultural sciences	4	7	15	7	12	2	8	9	8
Biological sciences	23	26	22	20	20	16	19	16	13
Earth, atmospheric, and ocean sciences	4	0	1	2	2	2	0	3	3
Atmospheric sciences	1	0	0	0	0	0	0	0	1
Earth sciences	3	0	1	2	2	2	0	3	2
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	33	23	25	38	42	41	50	45	43
Computer sciences	28	17	24	35	38	37	45	40	39
Mathematics and statistics	5	6	1	3	4	4	5	5	4
Physical sciences	4	5	7	3	2	3	5	5	3
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	2	3	4	2	1	2	3	2	1
Physics	1	2	3	1	1	1	2	2	2
Other physical sciences	1	0	0	0	0	0	0	1	0
Social and behavioral sciences	143	139	151	168	156	143	171	152	125
Psychology	43	55	59	72	60	55	78	71	60
Social sciences	100	84	92	96	96	88	93	81	65
Anthropology	1	5	1	0	1	3	1	3	3
Area and ethnic studies	7	13	9	10	5	4	8	1	2
Economics	2	2	4	5	0	1	4	0	0

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	1	1	0	0	0	0	0
Political science and public administration	79	55	70	64	74	68	72	58	49
Sociology	0	1	1	3	0	2	3	5	2
Other social sciences	11	8	6	13	16	10	5	14	9
Non-S&E	1,042	1,283	1,432	1,482	1,250	1,281	1,243	1,299	1,246
White									
All fields	410,814	419,809	413,610	405,699	396,460	396,186	401,523	408,500	416,755
S&E	67,712	73,327	73,856	74,278	72,869	72,815	72,596	74,346	77,210
Engineering	14,579	16,022	15,556	15,591	15,263	15,079	15,297	15,913	16,035
Aerospace	699	805	694	708	711	758	804	749	837
Chemical	505	561	524	595	590	551	642	684	600
Civil	2,993	3,183	3,046	3,014	2,748	2,649	2,482	2,524	2,473
Electrical	2,513	2,690	2,513	2,425	2,435	2,296	2,442	2,458	2,507
Industrial	1,541	1,787	1,766	1,806	1,702	1,744	1,709	1,893	1,823
Materials	326	363	364	379	354	432	392	459	453
Mechanical	2,624	2,699	2,628	2,595	2,636	2,484	2,588	2,699	2,789
Other	3,378	3,934	4,021	4,069	4,087	4,165	4,238	4,447	4,553
Science	53,133	57,305	58,300	58,687	57,606	57,736	57,299	58,433	61,175
Natural sciences	20,666	22,734	23,581	24,339	24,781	25,511	26,526	28,191	29,903
Agricultural sciences	3,484	4,043	3,887	3,987	3,860	3,992	3,937	4,055	4,277
Biological sciences	5,838	6,438	6,828	7,126	7,309	7,831	8,173	8,639	8,781
Earth, atmospheric, and ocean sciences	1,278	1,417	1,444	1,519	1,512	1,433	1,449	1,367	1,403
Atmospheric sciences	170	172	169	179	166	145	156	151	140
Earth sciences	1,011	1,124	1,174	1,227	1,239	1,180	1,173	1,103	1,161
Oceanography	97	121	101	113	107	108	120	113	102
Mathematics and computer sciences	8,005	8,605	9,158	9,524	9,953	10,104	10,809	11,874	13,167
Computer sciences	5,553	5,997	6,525	6,797	7,223	7,278	7,968	8,697	9,735
Mathematics and statistics	2,452	2,608	2,633	2,727	2,730	2,826	2,841	3,177	3,432
Physical sciences	2,061	2,231	2,264	2,183	2,147	2,151	2,158	2,256	2,275
Astronomy	98	82	101	90	95	86	105	85	120
Chemistry	964	1,110	1,061	997	1,058	1,078	1,138	1,085	1,142
Physics	868	901	995	990	903	931	823	1,006	913
Other physical sciences	131	138	107	106	91	56	92	80	100
Social and behavioral sciences	32,467	34,571	34,719	34,348	32,825	32,225	30,773	30,242	31,272

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Psychology	13,227	13,983	14,542	14,848	13,955	13,998	13,556	13,473	13,947
Social sciences	19,240	20,588	20,177	19,500	18,870	18,227	17,217	16,769	17,325
Anthropology	825	863	772	881	857	789	752	776	693
Area and ethnic studies	942	937	920	797	864	764	697	652	590
Economics	1,469	1,542	1,374	1,418	1,307	1,347	1,304	1,270	1,345
History of science	34	24	17	12	15	23	25	15	21
Linguistics	368	414	390	362	378	370	313	331	298
Political science and public administration	11,809	12,652	12,631	12,170	11,833	11,432	10,671	10,300	10,842
Sociology	863	977	876	847	743	742	719	675	704
Other social sciences	2,930	3,179	3,197	3,013	2,873	2,760	2,736	2,750	2,832
Non-S&E	343,102	346,482	339,754	331,421	323,591	323,371	328,927	334,154	339,545
More than one race									
All fields	5,970	8,751	10,720	12,229	13,375	15,227	16,370	17,542	19,110
S&E	1,335	2,067	2,545	2,913	3,105	3,469	3,796	4,133	4,601
Engineering	296	392	492	568	585	720	700	791	921
Aerospace	15	20	23	23	30	30	40	41	49
Chemical	15	18	13	14	30	22	29	40	42
Civil	50	87	104	116	95	112	119	114	125
Electrical	62	64	85	103	95	136	119	137	173
Industrial	43	39	56	59	53	66	63	79	80
Materials	5	12	15	16	18	27	19	22	31
Mechanical	36	50	72	98	89	129	131	129	154
Other	70	102	124	139	175	198	180	229	267
Science	1,039	1,675	2,053	2,345	2,520	2,749	3,096	3,342	3,680
Natural sciences	341	560	810	902	1,025	1,150	1,419	1,521	1,752
Agricultural sciences	48	71	95	109	128	114	170	162	191
Biological sciences	110	167	283	326	332	387	479	484	553
Earth, atmospheric, and ocean sciences	9	25	42	53	33	51	44	69	69
Atmospheric sciences	0	2	3	3	5	4	2	7	6
Earth sciences	9	22	38	45	27	45	37	56	60
Oceanography	0	1	1	5	1	2	5	6	3
Mathematics and computer sciences	141	243	308	358	446	489	623	695	822
Computer sciences	107	180	229	290	345	388	488	563	610
Mathematics and statistics	34	63	79	68	101	101	135	132	212
Physical sciences	33	54	82	56	86	109	103	111	117

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Astronomy	3	1	2	2	4	3	5	3	8
Chemistry	17	26	36	31	50	60	52	50	60
Physics	9	23	41	21	29	40	43	52	46
Other physical sciences	4	4	3	2	3	6	3	6	3
Social and behavioral sciences	698	1,115	1,243	1,443	1,495	1,599	1,677	1,821	1,928
Psychology	241	400	480	500	541	623	730	783	810
Social sciences	457	715	763	943	954	976	947	1,038	1,118
Anthropology	17	31	36	55	44	45	43	55	58
Area and ethnic studies	35	49	59	60	66	56	56	72	81
Economics	41	50	55	45	47	61	61	63	57
History of science	0	1	1	1	0	2	2	1	0
Linguistics	5	17	17	16	19	26	21	22	15
Political science and public administration	267	416	463	579	603	628	572	635	685
Sociology	27	43	46	56	53	42	57	47	60
Other social sciences	65	108	86	131	122	116	135	143	162
Non-S&E	4,635	6,684	8,175	9,316	10,270	11,758	12,574	13,409	14,509
Other or unknown race or ethnicity									
All fields	73,515	71,618	61,747	57,714	54,875	54,007	48,980	47,319	48,174
S&E	11,858	12,144	11,618	10,873	9,833	9,948	8,293	8,239	8,746
Engineering	2,092	2,025	2,111	2,211	1,723	1,755	1,509	1,430	1,269
Aerospace	62	39	41	39	35	42	52	41	35
Chemical	60	63	55	53	60	70	70	78	46
Civil	282	277	382	331	219	208	174	208	148
Electrical	471	437	410	595	377	367	310	256	283
Industrial	319	294	289	295	185	229	201	163	124
Materials	35	37	23	16	26	33	45	26	25
Mechanical	261	243	259	283	291	243	203	201	174
Other	602	635	652	599	530	563	454	457	434
Science	9,766	10,119	9,507	8,662	8,110	8,193	6,784	6,809	7,477
Natural sciences	3,496	3,426	3,321	3,320	3,147	3,170	2,910	2,902	3,224
Agricultural sciences	301	320	319	311	290	289	282	308	289
Biological sciences	878	820	771	785	853	917	705	706	794
Earth, atmospheric, and ocean sciences	112	114	95	98	109	81	103	72	70
Atmospheric sciences	8	9	8	12	12	12	11	5	12
Earth sciences	91	95	77	81	85	64	87	60	52

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Oceanography	13	10	10	5	12	5	5	7	6
Mathematics and computer sciences	1,931	1,963	1,914	1,905	1,675	1,703	1,657	1,658	1,917
Computer sciences	1,561	1,607	1,573	1,628	1,397	1,381	1,336	1,334	1,541
Mathematics and statistics	370	356	341	277	278	322	321	324	376
Physical sciences	274	209	222	221	220	180	163	158	154
Astronomy	17	9	13	10	7	6	5	3	6
Chemistry	138	100	108	105	99	91	82	80	77
Physics	104	90	94	87	101	72	57	64	66
Other physical sciences	15	10	7	19	13	11	19	11	5
Social and behavioral sciences	6,270	6,693	6,186	5,342	4,963	5,023	3,874	3,907	4,253
Psychology	2,362	2,639	2,357	2,153	1,948	2,063	1,893	1,987	2,258
Social sciences	3,908	4,054	3,829	3,189	3,015	2,960	1,981	1,920	1,995
Anthropology	139	110	101	112	77	78	71	64	53
Area and ethnic studies	141	94	101	103	108	69	67	52	65
Economics	313	308	214	235	208	152	156	117	128
History of science	3	2	4	1	1	3	1	2	0
Linguistics	58	45	64	42	40	32	28	36	43
Political science and public administration	2,756	3,003	2,879	2,312	2,209	2,277	1,314	1,320	1,320
Sociology	128	114	73	63	65	48	45	55	47
Other social sciences	370	378	393	321	307	301	299	274	339
Non-S&E	61,657	59,474	50,129	46,841	45,042	44,059	40,687	39,080	39,428
Temporary visa holder									
All fields	85,917	89,227	94,489	103,828	117,148	135,986	145,480	145,084	138,153
S&E	39,215	40,942	43,261	47,344	58,724	73,937	81,486	80,010	74,626
Engineering	17,387	17,584	17,919	19,891	24,460	30,424	32,013	30,237	26,724
Aerospace	332	329	287	320	335	398	433	492	403
Chemical	911	995	1,057	1,143	1,263	1,322	1,353	1,429	1,305
Civil	1,619	1,748	1,828	2,108	2,496	2,886	3,222	3,382	3,118
Electrical	7,390	7,553	7,536	8,274	11,107	14,132	13,361	11,638	10,117
Industrial	2,244	2,232	2,198	2,417	2,735	3,684	4,798	4,564	3,587
Materials	406	454	521	595	605	651	726	759	723
Mechanical	2,210	2,147	2,189	2,460	3,004	3,868	4,447	4,219	3,641
Other	2,275	2,126	2,303	2,574	2,915	3,483	3,673	3,754	3,830
Science	21,828	23,358	25,342	27,453	34,264	43,513	49,473	49,773	47,902
Natural sciences	15,405	16,752	18,011	19,771	26,552	35,482	41,228	41,455	39,185

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Agricultural sciences	634	682	739	802	793	880	921	1,034	1,040
Biological sciences	1,901	2,048	2,045	2,145	2,327	2,309	2,481	2,584	2,513
Earth, atmospheric, and ocean sciences	226	316	317	343	348	353	382	298	287
Atmospheric sciences	21	39	32	44	49	44	53	48	44
Earth sciences	187	260	271	280	282	289	306	234	222
Oceanography	18	17	14	19	17	20	23	16	21
Mathematics and computer sciences	11,171	12,088	13,334	14,918	21,445	30,335	35,817	35,886	33,889
Computer sciences	8,733	9,365	10,108	11,226	17,353	25,311	30,073	28,817	25,955
Mathematics and statistics	2,438	2,723	3,226	3,692	4,092	5,024	5,744	7,069	7,934
Physical sciences	1,473	1,618	1,576	1,563	1,639	1,605	1,627	1,653	1,456
Astronomy	51	23	33	41	34	25	37	35	51
Chemistry	792	866	874	876	876	857	852	787	677
Physics	612	688	627	609	690	687	694	785	669
Other physical sciences	18	41	42	37	39	36	44	46	59
Social and behavioral sciences	6,423	6,606	7,331	7,682	7,712	8,031	8,245	8,318	8,717
Psychology	714	784	928	841	820	987	936	970	1,000
Social sciences	5,709	5,822	6,403	6,841	6,892	7,044	7,309	7,348	7,717
Anthropology	85	95	106	101	109	99	114	114	122
Area and ethnic studies	261	253	292	311	294	325	300	289	277
Economics	1,848	1,872	2,093	2,353	2,339	2,314	2,497	2,480	2,691
History of science	5	5	7	7	4	3	2	9	6
Linguistics	175	192	188	179	242	214	215	179	180
Political science and public administration	2,790	2,781	3,107	3,277	3,277	3,415	3,416	3,417	3,534
Sociology	164	172	171	169	163	177	155	184	212
Other social sciences	381	452	439	444	464	497	610	676	695
Non-S&E	46,702	48,285	51,228	56,484	58,424	62,049	63,994	65,074	63,527
Male									
All citizenships, races, and ethnicity									
All fields	293,301	303,802	303,230	304,556	308,283	322,313	328,651	328,608	328,081
S&E	82,451	87,859	90,046	92,457	99,282	110,442	116,326	115,295	113,535
Engineering	31,943	33,276	33,091	34,374	36,925	41,377	42,853	41,549	39,107
Aerospace	1,110	1,217	1,076	1,104	1,140	1,198	1,336	1,351	1,342
Chemical	1,235	1,316	1,319	1,475	1,603	1,608	1,657	1,727	1,621
Civil	4,266	4,551	4,503	4,695	4,607	4,794	4,905	4,970	4,743
Electrical	10,064	10,128	9,992	10,268	12,018	14,187	13,605	12,165	11,228

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Industrial	3,738	3,907	3,926	4,094	4,070	4,943	5,907	5,663	4,782
Materials	650	669	764	822	818	921	945	1,033	1,001
Mechanical	5,150	5,226	5,160	5,325	5,879	6,538	7,175	7,125	6,656
Other	5,730	6,262	6,351	6,591	6,790	7,188	7,323	7,515	7,734
Science	50,508	54,583	56,955	58,083	62,357	69,065	73,473	73,746	74,428
Natural sciences	28,688	31,264	33,487	34,832	39,765	46,686	51,661	52,309	52,785
Agricultural sciences	2,399	2,690	2,584	2,622	2,564	2,603	2,660	2,720	2,810
Biological sciences	4,782	5,235	5,625	5,913	6,044	6,510	6,708	6,864	7,174
Earth, atmospheric, and ocean sciences	994	1,174	1,178	1,281	1,257	1,210	1,237	1,181	1,168
Atmospheric sciences	135	147	142	152	163	144	132	147	118
Earth sciences	797	960	961	1,063	1,031	996	1,035	967	987
Oceanography	62	67	75	66	63	70	70	67	63
Mathematics and computer sciences	17,697	19,145	20,989	22,087	26,834	33,321	38,025	38,375	38,548
Computer sciences	14,011	15,172	16,570	17,547	21,945	27,839	32,221	31,452	30,731
Mathematics and statistics	3,686	3,973	4,419	4,540	4,889	5,482	5,804	6,923	7,817
Physical sciences	2,816	3,020	3,111	2,929	3,066	3,042	3,031	3,169	3,085
Astronomy	115	77	94	94	94	83	99	95	134
Chemistry	1,243	1,361	1,348	1,309	1,382	1,368	1,420	1,343	1,311
Physics	1,367	1,470	1,583	1,437	1,498	1,526	1,411	1,661	1,550
Other physical sciences	91	112	86	89	92	65	101	70	90
Social and behavioral sciences	21,820	23,319	23,468	23,251	22,592	22,379	21,812	21,437	21,643
Psychology	4,719	5,045	5,288	5,327	5,103	5,185	5,180	5,121	5,226
Social sciences	17,101	18,274	18,180	17,924	17,489	17,194	16,632	16,316	16,417
Anthropology	394	419	376	416	411	418	365	357	319
Area and ethnic studies	746	728	724	654	709	704	644	606	552
Economics	2,445	2,596	2,514	2,689	2,633	2,574	2,639	2,601	2,695
History of science	30	19	19	9	11	17	16	15	16
Linguistics	229	281	290	287	255	279	260	230	235
Political science and public administration	10,580	11,179	11,356	11,115	10,850	10,684	10,184	9,958	10,068
Sociology	567	633	545	537	495	518	494	527	486
Other social sciences	2,110	2,419	2,356	2,217	2,125	2,000	2,030	2,022	2,046
Non-S&E	210,850	215,943	213,184	212,099	209,001	211,871	212,325	213,313	214,546
U.S. citizen or permanent resident									
All fields	244,503	254,109	250,928	248,227	243,739	245,101	245,511	248,245	252,702
S&E	56,561	61,089	62,213	62,242	61,500	62,000	62,814	64,351	67,027

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Engineering	18,633	20,064	19,797	19,785	18,962	18,850	18,907	19,337	19,582
Aerospace	836	935	837	826	849	874	988	960	1,025
Chemical	597	666	625	700	725	700	740	785	742
Civil	3,123	3,361	3,315	3,251	2,865	2,761	2,570	2,635	2,554
Electrical	4,315	4,336	4,212	4,053	3,905	3,807	3,882	3,861	3,996
Industrial	2,070	2,293	2,325	2,382	2,084	2,224	2,181	2,236	2,139
Materials	355	362	401	406	398	485	440	490	484
Mechanical	3,211	3,355	3,259	3,250	3,313	3,180	3,264	3,392	3,520
Other	4,126	4,756	4,823	4,917	4,823	4,819	4,842	4,978	5,122
Science	37,928	41,025	42,416	42,457	42,538	43,150	43,907	45,014	47,445
Natural sciences	19,030	20,728	22,156	22,617	23,340	24,277	25,740	27,170	29,499
Agricultural sciences	2,077	2,375	2,249	2,273	2,215	2,229	2,247	2,268	2,366
Biological sciences	3,990	4,341	4,777	5,040	5,179	5,606	5,769	5,902	6,259
Earth, atmospheric, and ocean sciences	874	982	1,000	1,067	1,049	989	1,025	996	996
Atmospheric sciences	123	128	129	127	140	121	109	117	96
Earth sciences	701	794	802	888	858	815	858	824	850
Oceanography	50	60	69	52	51	53	58	55	50
Mathematics and computer sciences	10,197	11,037	12,029	12,263	12,844	13,396	14,697	15,870	17,708
Computer sciences	7,858	8,585	9,422	9,741	10,168	10,646	11,920	12,643	14,013
Mathematics and statistics	2,339	2,452	2,607	2,522	2,676	2,750	2,777	3,227	3,695
Physical sciences	1,892	1,993	2,101	1,974	2,053	2,057	2,002	2,134	2,170
Astronomy	81	65	70	71	75	72	73	70	101
Chemistry	809	910	871	829	911	918	960	917	962
Physics	916	933	1,102	1,004	1,002	1,023	899	1,102	1,054
Other physical sciences	86	85	58	70	65	44	70	45	53
Social and behavioral sciences	18,898	20,297	20,260	19,840	19,198	18,873	18,167	17,844	17,946
Psychology	4,553	4,871	5,056	5,134	4,909	4,979	4,971	4,922	5,015
Social sciences	14,345	15,426	15,204	14,706	14,289	13,894	13,196	12,922	12,931
Anthropology	356	377	331	375	365	378	323	324	280
Area and ethnic studies	644	634	634	561	615	595	536	506	460
Economics	1,499	1,584	1,444	1,429	1,346	1,329	1,304	1,297	1,304
History of science	26	16	16	7	9	15	16	12	15
Linguistics	188	231	224	225	193	193	182	171	169
Political science and public administration	9,185	9,823	9,881	9,604	9,379	9,138	8,605	8,408	8,524
Sociology	502	566	500	471	436	442	432	455	402

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Other social sciences	1,945	2,195	2,174	2,034	1,946	1,804	1,798	1,749	1,777
Non-S&E	187,942	193,020	188,715	185,985	182,239	183,101	182,697	183,894	185,675
Hispanic or Latino									
All fields	16,644	18,045	18,937	20,197	20,943	22,444	23,579	25,016	27,095
S&E	3,946	4,382	4,770	5,081	5,384	5,713	6,059	6,508	7,062
Engineering	1,278	1,465	1,537	1,634	1,735	1,641	1,807	1,868	2,030
Aerospace	54	58	65	63	72	62	95	98	109
Chemical	34	33	49	49	67	51	58	58	62
Civil	215	253	288	310	313	304	300	301	337
Electrical	330	317	296	335	330	326	364	370	403
Industrial	215	280	254	303	277	276	283	285	281
Materials	22	17	35	28	34	22	39	31	46
Mechanical	188	236	246	242	275	287	337	340	350
Other	220	271	304	304	367	313	331	385	442
Science	2,668	2,917	3,233	3,447	3,649	4,072	4,252	4,640	5,032
Natural sciences	1,120	1,259	1,421	1,530	1,682	1,910	2,045	2,378	2,704
Agricultural sciences	117	125	115	115	122	161	149	175	198
Biological sciences	226	263	312	369	374	510	569	592	655
Earth, atmospheric, and ocean sciences	42	46	43	54	47	56	63	75	73
Atmospheric sciences	3	5	4	8	5	6	6	5	6
Earth sciences	36	40	37	46	42	45	56	68	66
Oceanography	3	1	2	0	0	5	1	2	1
Mathematics and computer sciences	624	735	816	866	986	1,023	1,107	1,347	1,534
Computer sciences	481	585	626	685	783	826	902	1,081	1,208
Mathematics and statistics	143	150	190	181	203	197	205	266	326
Physical sciences	111	90	135	126	153	160	157	189	244
Astronomy	4	2	4	5	4	6	3	5	15
Chemistry	56	36	57	59	68	78	85	85	103
Physics	48	50	71	58	81	76	66	95	123
Other physical sciences	3	2	3	4	0	0	3	4	3
Social and behavioral sciences	1,548	1,658	1,812	1,917	1,967	2,162	2,207	2,262	2,328
Psychology	432	404	528	512	556	608	630	675	748
Social sciences	1,116	1,254	1,284	1,405	1,411	1,554	1,577	1,587	1,580
Anthropology	31	32	35	28	34	28	36	41	40
Area and ethnic studies	72	85	79	94	88	130	94	105	78

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Economics	82	100	113	91	98	109	117	114	106
History of science	1	0	1	0	1	1	0	1	1
Linguistics	10	18	21	18	19	18	22	18	21
Political science and public administration	736	800	822	960	937	1,020	1,028	1,058	1,080
Sociology	65	76	60	72	54	84	70	73	78
Other social sciences	119	143	153	142	180	164	210	177	176
Non-S&E	12,698	13,663	14,167	15,116	15,559	16,731	17,520	18,508	20,033
Not Hispanic or Latino									
All fields	227,859	236,064	231,991	228,030	222,796	222,657	221,932	223,229	225,607
S&E	52,615	56,707	57,443	57,161	56,116	56,287	56,755	57,843	59,965
Engineering	17,355	18,599	18,260	18,151	17,227	17,209	17,100	17,469	17,552
Aerospace	782	877	772	763	777	812	893	862	916
Chemical	563	633	576	651	658	649	682	727	680
Civil	2,908	3,108	3,027	2,941	2,552	2,457	2,270	2,334	2,217
Electrical	3,985	4,019	3,916	3,718	3,575	3,481	3,518	3,491	3,593
Industrial	1,855	2,013	2,071	2,079	1,807	1,948	1,898	1,951	1,858
Materials	333	345	366	378	364	463	401	459	438
Mechanical	3,023	3,119	3,013	3,008	3,038	2,893	2,927	3,052	3,170
Other	3,906	4,485	4,519	4,613	4,456	4,506	4,511	4,593	4,680
Science	35,260	38,108	39,183	39,010	38,889	39,078	39,655	40,374	42,413
Natural sciences	17,910	19,469	20,735	21,087	21,658	22,367	23,695	24,792	26,795
Agricultural sciences	1,960	2,250	2,134	2,158	2,093	2,068	2,098	2,093	2,168
Biological sciences	3,764	4,078	4,465	4,671	4,805	5,096	5,200	5,310	5,604
Earth, atmospheric, and ocean sciences	832	936	957	1,013	1,002	933	962	921	923
Atmospheric sciences	120	123	125	119	135	115	103	112	90
Earth sciences	665	754	765	842	816	770	802	756	784
Oceanography	47	59	67	52	51	48	57	53	49
Mathematics and computer sciences	9,573	10,302	11,213	11,397	11,858	12,373	13,590	14,523	16,174
Computer sciences	7,377	8,000	8,796	9,056	9,385	9,820	11,018	11,562	12,805
Mathematics and statistics	2,196	2,302	2,417	2,341	2,473	2,553	2,572	2,961	3,369
Physical sciences	1,781	1,903	1,966	1,848	1,900	1,897	1,845	1,945	1,926
Astronomy	77	63	66	66	71	66	70	65	86
Chemistry	753	874	814	770	843	840	875	832	859
Physics	868	883	1,031	946	921	947	833	1,007	931
Other physical sciences	83	83	55	66	65	44	67	41	50

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Social and behavioral sciences	17,350	18,639	18,448	17,923	17,231	16,711	15,960	15,582	15,618
Psychology	4,121	4,467	4,528	4,622	4,353	4,371	4,341	4,247	4,267
Social sciences	13,229	14,172	13,920	13,301	12,878	12,340	11,619	11,335	11,351
Anthropology	325	345	296	347	331	350	287	283	240
Area and ethnic studies	572	549	555	467	527	465	442	401	382
Economics	1,417	1,484	1,331	1,338	1,248	1,220	1,187	1,183	1,198
History of science	25	16	15	7	8	14	16	11	14
Linguistics	178	213	203	207	174	175	160	153	148
Political science and public administration	8,449	9,023	9,059	8,644	8,442	8,118	7,577	7,350	7,444
Sociology	437	490	440	399	382	358	362	382	324
Other social sciences	1,826	2,052	2,021	1,892	1,766	1,640	1,588	1,572	1,601
Non-S&E	175,244	179,357	174,548	170,869	166,680	166,370	165,177	165,386	165,642
American Indian or Alaska Native									
All fields	1,242	1,148	1,149	1,098	1,110	1,120	1,057	996	1,018
S&E	278	263	243	245	237	248	268	221	227
Engineering	63	63	56	44	41	59	53	52	39
Aerospace	3	1	6	3	3	1	2	3	2
Chemical	1	1	1	0	2	3	4	2	2
Civil	12	11	11	8	5	7	3	8	3
Electrical	8	13	9	6	6	14	10	8	9
Industrial	12	10	9	6	7	11	9	9	6
Materials	0	1	1	0	1	0	0	0	2
Mechanical	12	10	8	6	4	10	8	7	6
Other	15	16	11	15	13	13	17	15	9
Science	215	200	187	201	196	189	215	169	188
Natural sciences	94	90	82	84	87	85	90	65	87
Agricultural sciences	13	17	10	12	14	15	9	14	11
Biological sciences	18	16	18	21	21	12	18	8	26
Earth, atmospheric, and ocean sciences	10	8	10	4	3	5	4	0	3
Atmospheric sciences	1	0	2	0	0	0	1	0	0
Earth sciences	8	8	7	3	3	5	3	0	3
Oceanography	1	0	1	1	0	0	0	0	0
Mathematics and computer sciences	44	42	37	38	45	42	53	36	44
Computer sciences	37	34	31	34	40	37	50	32	38
Mathematics and statistics	7	8	6	4	5	5	3	4	6

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physical sciences	9	7	7	9	4	11	6	7	3
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	4	4	3	7	3	3	3	6	1
Physics	3	2	4	2	1	7	3	1	2
Other physical sciences	2	1	0	0	0	1	0	0	0
Social and behavioral sciences	121	110	105	117	109	104	125	104	101
Psychology	27	20	23	35	26	36	30	23	26
Social sciences	94	90	82	82	83	68	95	81	75
Anthropology	8	5	4	3	1	6	7	4	3
Area and ethnic studies	8	10	8	5	14	7	21	21	22
Economics	4	3	4	1	1	3	2	3	2
History of science	0	0	0	1	0	0	0	0	0
Linguistics	3	2	2	2	1	2	0	1	2
Political science and public administration	56	48	48	55	54	42	55	43	37
Sociology	3	5	2	3	4	1	3	3	2
Other social sciences	12	17	14	12	8	7	7	6	7
Non-S&E	964	885	906	853	873	872	789	775	791
Asian									
All fields	17,132	17,840	17,702	17,341	17,207	17,760	18,559	19,180	19,809
S&E	5,814	5,964	6,224	6,018	6,146	6,458	7,270	7,207	7,772
Engineering	2,783	2,776	2,798	2,569	2,446	2,526	2,621	2,600	2,761
Aerospace	95	108	96	90	84	90	92	121	116
Chemical	106	113	100	115	112	139	122	109	131
Civil	307	355	334	312	278	278	244	265	262
Electrical	1,039	949	1,007	791	780	808	803	806	824
Industrial	246	228	263	234	200	190	207	211	211
Materials	45	44	62	62	65	66	74	63	59
Mechanical	380	364	352	357	377	378	401	374	469
Other	565	615	584	608	550	577	678	651	689
Science	3,031	3,188	3,426	3,449	3,700	3,932	4,649	4,607	5,011
Natural sciences	2,203	2,219	2,520	2,548	2,789	3,118	3,693	3,719	4,085
Agricultural sciences	77	81	64	76	63	56	69	78	91
Biological sciences	569	621	694	717	796	791	854	895	1,004
Earth, atmospheric, and ocean sciences	19	16	22	25	24	19	22	29	31
Atmospheric sciences	4	3	4	1	2	2	1	6	2

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Earth sciences	13	13	14	22	21	15	19	23	29
Oceanography	2	0	4	2	1	2	2	0	0
Mathematics and computer sciences	1,370	1,348	1,559	1,573	1,745	2,084	2,574	2,546	2,780
Computer sciences	1,071	1,068	1,223	1,259	1,427	1,750	2,205	2,098	2,256
Mathematics and statistics	299	280	336	314	318	334	369	448	524
Physical sciences	168	153	181	157	161	168	174	171	179
Astronomy	3	3	5	7	4	4	4	3	7
Chemistry	99	91	101	97	102	89	97	97	104
Physics	58	57	75	53	51	75	71	67	67
Other physical sciences	8	2	0	0	4	0	2	4	1
Social and behavioral sciences	828	969	906	901	911	814	956	888	926
Psychology	170	215	196	201	210	186	214	234	224
Social sciences	658	754	710	700	701	628	742	654	702
Anthropology	9	5	10	12	10	15	8	5	8
Area and ethnic studies	46	38	33	26	17	26	45	28	35
Economics	115	160	119	114	122	119	134	109	112
History of science	0	1	0	1	0	0	0	1	0
Linguistics	11	8	8	18	7	13	9	7	7
Political science and public administration	382	429	433	443	449	370	452	407	431
Sociology	32	33	29	18	20	18	20	20	14
Other social sciences	63	80	78	68	76	67	74	77	95
Non-S&E	11,318	11,876	11,478	11,323	11,061	11,302	11,289	11,973	12,037
Black or African American									
All fields	20,810	22,177	23,662	23,954	23,838	24,612	24,830	25,469	25,525
S&E	3,863	4,204	4,607	4,803	4,824	4,904	5,010	5,227	5,359
Engineering	816	868	906	890	953	912	904	887	944
Aerospace	21	15	19	24	16	21	21	25	21
Chemical	27	34	47	35	44	37	30	33	32
Civil	97	122	121	124	116	106	119	94	111
Electrical	235	206	221	182	216	210	210	195	202
Industrial	139	135	143	162	161	170	163	167	160
Materials	9	11	13	9	15	20	13	16	27
Mechanical	78	93	79	89	90	85	80	99	104
Other	210	252	263	265	295	263	268	258	287
Science	3,047	3,336	3,701	3,913	3,871	3,992	4,106	4,340	4,415

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Natural sciences	1,199	1,337	1,626	1,680	1,799	1,866	2,003	2,280	2,456
Agricultural sciences	77	67	73	79	87	80	93	93	93
Biological sciences	210	211	225	265	275	307	346	384	435
Earth, atmospheric, and ocean sciences	21	24	31	24	26	20	16	29	26
Atmospheric sciences	2	2	6	4	2	3	1	5	1
Earth sciences	19	22	23	20	24	17	15	23	23
Oceanography	0	0	2	0	0	0	0	1	2
Mathematics and computer sciences	825	946	1,228	1,255	1,346	1,390	1,475	1,700	1,834
Computer sciences	730	840	1,087	1,137	1,215	1,262	1,348	1,555	1,673
Mathematics and statistics	95	106	141	118	131	128	127	145	161
Physical sciences	66	89	69	57	65	69	73	74	68
Astronomy	0	1	1	1	1	0	0	1	0
Chemistry	32	58	30	35	36	45	40	40	38
Physics	31	24	34	18	26	23	29	30	29
Other physical sciences	3	6	4	3	2	1	4	3	1
Social and behavioral sciences	1,848	1,999	2,075	2,233	2,072	2,126	2,103	2,060	1,959
Psychology	455	531	511	550	507	557	581	576	552
Social sciences	1,393	1,468	1,564	1,683	1,565	1,569	1,522	1,484	1,407
Anthropology	7	11	8	10	5	7	11	5	9
Area and ethnic studies	51	45	41	34	56	46	51	49	44
Economics	78	76	90	83	77	74	65	79	84
History of science	0	0	0	1	0	2	1	0	2
Linguistics	5	4	7	7	3	4	5	1	3
Political science and public administration	1,024	1,114	1,140	1,273	1,161	1,188	1,142	1,124	1,052
Sociology	59	55	62	71	56	50	52	63	50
Other social sciences	169	163	216	204	207	198	195	163	163
Non-S&E	16,947	17,973	19,055	19,151	19,014	19,708	19,820	20,242	20,166
Native Hawaiian or Other Pacific Islander									
All fields	499	572	664	682	598	582	563	557	539
S&E	114	111	123	133	131	108	125	117	92
Engineering	16	29	26	28	27	20	27	22	15
Aerospace	0	2	0	0	0	0	1	1	1
Chemical	0	1	1	1	0	0	0	1	0
Civil	4	6	6	3	3	2	5	8	3
Electrical	4	2	6	4	9	7	4	3	1

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Industrial	0	7	2	8	1	3	3	2	5
Materials	1	0	2	0	0	0	0	1	0
Mechanical	2	4	5	0	4	3	7	2	0
Other	5	7	4	12	10	5	7	4	5
Science	98	82	97	105	104	88	98	95	77
Natural sciences	40	30	43	43	47	38	49	41	41
Agricultural sciences	2	5	6	3	4	0	2	3	4
Biological sciences	10	9	11	10	12	7	9	7	5
Earth, atmospheric, and ocean sciences	3	0	1	1	1	1	0	2	1
Atmospheric sciences	1	0	0	0	0	0	0	0	0
Earth sciences	2	0	1	1	1	1	0	2	1
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	24	14	20	26	28	29	37	26	29
Computer sciences	21	10	20	24	25	25	33	24	26
Mathematics and statistics	3	4	0	2	3	4	4	2	3
Physical sciences	1	2	5	3	2	1	1	3	2
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	1	1	3	2	1	0	1	0	0
Physics	0	1	2	1	1	1	0	2	2
Other physical sciences	0	0	0	0	0	0	0	1	0
Social and behavioral sciences	58	52	54	62	57	50	49	54	36
Psychology	9	17	13	17	10	11	12	18	13
Social sciences	49	35	41	45	47	39	37	36	23
Anthropology	0	1	0	0	0	0	0	2	0
Area and ethnic studies	2	3	5	4	1	2	5	0	0
Economics	2	2	4	2	0	0	2	0	0
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	1	0	0	0	0	0
Political science and public administration	40	24	30	27	35	31	29	25	19
Sociology	0	0	0	2	0	2	1	2	0
Other social sciences	5	5	2	9	11	4	0	7	4
Non-S&E	385	461	541	549	467	474	438	440	447
White									
All fields	156,536	162,150	159,196	156,602	152,703	151,605	151,856	152,586	153,320
S&E	35,935	39,180	39,221	39,047	38,501	38,081	38,165	39,195	40,239

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Engineering	11,781	12,990	12,434	12,466	11,988	11,827	11,826	12,259	12,190
Aerospace	597	705	596	599	620	641	696	640	712
Chemical	375	424	381	453	435	411	460	505	455
Civil	2,248	2,345	2,214	2,185	1,950	1,850	1,698	1,746	1,663
Electrical	2,257	2,422	2,259	2,157	2,154	2,018	2,138	2,155	2,176
Industrial	1,184	1,392	1,385	1,413	1,266	1,360	1,313	1,378	1,337
Materials	248	256	260	284	253	332	272	340	314
Mechanical	2,288	2,396	2,274	2,225	2,260	2,121	2,160	2,297	2,344
Other	2,584	3,050	3,065	3,150	3,050	3,094	3,089	3,198	3,189
Science	24,154	26,190	26,787	26,581	26,513	26,254	26,339	26,936	28,049
Natural sciences	12,068	13,355	14,032	14,221	14,514	14,797	15,362	16,257	17,353
Agricultural sciences	1,643	1,868	1,800	1,789	1,742	1,745	1,726	1,713	1,783
Biological sciences	2,516	2,809	3,077	3,182	3,195	3,432	3,484	3,560	3,643
Earth, atmospheric, and ocean sciences	716	818	819	869	872	812	838	785	784
Atmospheric sciences	108	112	105	103	117	101	93	94	75
Earth sciences	569	655	659	722	710	670	692	643	670
Oceanography	39	51	55	44	45	41	53	48	39
Mathematics and computer sciences	5,841	6,391	6,821	6,926	7,242	7,351	7,901	8,656	9,651
Computer sciences	4,301	4,750	5,155	5,238	5,488	5,546	6,125	6,578	7,381
Mathematics and statistics	1,540	1,641	1,666	1,688	1,754	1,805	1,776	2,078	2,270
Physical sciences	1,352	1,469	1,515	1,455	1,463	1,457	1,413	1,543	1,492
Astronomy	62	51	54	52	59	56	60	58	69
Chemistry	536	647	603	556	625	617	654	632	637
Physics	694	702	809	793	731	751	649	824	743
Other physical sciences	60	69	49	54	48	33	50	29	43
Social and behavioral sciences	12,086	12,835	12,755	12,360	11,999	11,457	10,977	10,679	10,696
Psychology	2,912	3,056	3,213	3,294	3,128	2,984	2,966	2,847	2,862
Social sciences	9,174	9,779	9,542	9,066	8,871	8,473	8,011	7,832	7,834
Anthropology	254	286	233	270	275	275	222	235	193
Area and ethnic studies	385	403	410	335	372	336	282	260	237
Economics	1,001	1,030	945	967	895	883	854	887	884
History of science	24	13	12	3	8	11	12	9	12
Linguistics	132	175	154	154	139	137	120	126	113
Political science and public administration	5,685	5,953	5,979	5,652	5,622	5,369	5,112	4,892	5,038
Sociology	296	343	300	271	258	252	258	256	226

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Other social sciences	1,397	1,576	1,509	1,414	1,302	1,210	1,151	1,167	1,131
Non-S&E	120,601	122,970	119,975	117,555	114,202	113,524	113,691	113,391	113,081
More than one race									
All fields	2,296	3,120	4,050	4,420	4,937	5,604	5,951	6,173	6,956
S&E	653	919	1,210	1,362	1,464	1,706	1,810	1,918	2,225
Engineering	235	267	375	421	421	525	506	567	645
Aerospace	13	13	22	15	25	24	34	37	34
Chemical	10	14	9	10	21	15	16	28	27
Civil	35	55	70	73	60	71	81	69	74
Electrical	54	51	76	92	77	116	98	113	148
Industrial	34	25	44	40	35	45	38	51	51
Materials	5	7	11	11	12	19	13	19	17
Mechanical	31	39	58	83	70	98	103	91	112
Other	53	63	85	97	121	137	123	159	182
Science	418	652	835	941	1,043	1,181	1,304	1,351	1,580
Natural sciences	188	316	439	497	568	648	786	814	969
Agricultural sciences	19	36	40	55	55	42	80	57	71
Biological sciences	54	66	115	133	146	166	194	178	210
Earth, atmospheric, and ocean sciences	4	10	24	26	17	28	22	36	37
Atmospheric sciences	0	2	3	0	4	2	1	4	4
Earth sciences	4	7	20	23	13	24	20	30	30
Oceanography	0	1	1	3	0	2	1	2	3
Mathematics and computer sciences	91	173	206	251	300	341	420	481	572
Computer sciences	70	133	154	207	236	274	338	395	425
Mathematics and statistics	21	40	52	44	64	67	82	86	147
Physical sciences	20	31	54	32	50	71	70	62	79
Astronomy	2	1	2	0	1	2	3	1	5
Chemistry	10	9	19	18	25	37	29	22	36
Physics	6	20	33	13	22	30	36	38	37
Other physical sciences	2	1	0	1	2	2	2	1	1
Social and behavioral sciences	230	336	396	444	475	533	518	537	611
Psychology	47	75	104	92	101	137	150	140	151
Social sciences	183	261	292	352	374	396	368	397	460
Anthropology	4	9	8	18	15	22	15	15	12
Area and ethnic studies	13	16	25	22	25	15	14	25	24

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Economics	28	28	35	29	34	35	40	37	39
History of science	0	1	1	0	0	0	2	0	0
Linguistics	0	7	8	7	8	10	7	6	6
Political science and public administration	112	148	169	215	226	255	227	249	295
Sociology	6	12	11	18	21	15	15	12	21
Other social sciences	20	40	35	43	45	44	48	53	63
Non-S&E	1,643	2,201	2,840	3,058	3,473	3,898	4,141	4,255	4,731
Other or unknown race or ethnicity									
All fields	29,344	29,057	25,568	23,933	22,403	21,374	19,116	18,268	18,440
S&E	5,958	6,066	5,815	5,553	4,813	4,782	4,107	3,958	4,051
Engineering	1,661	1,606	1,665	1,733	1,351	1,340	1,163	1,082	958
Aerospace	53	33	33	32	29	35	47	35	30
Chemical	44	46	37	37	44	44	50	49	33
Civil	205	214	271	236	140	143	120	144	101
Electrical	388	376	338	486	333	308	255	211	233
Industrial	240	216	225	216	137	169	165	133	88
Materials	25	26	17	12	18	26	29	20	19
Mechanical	232	213	237	248	233	198	168	182	135
Other	474	482	507	466	417	417	329	308	319
Science	4,297	4,460	4,150	3,820	3,462	3,442	2,944	2,876	3,093
Natural sciences	2,118	2,122	1,993	2,014	1,854	1,815	1,712	1,616	1,804
Agricultural sciences	129	176	141	144	128	130	119	135	115
Biological sciences	387	346	325	343	360	381	295	278	281
Earth, atmospheric, and ocean sciences	59	60	50	64	59	48	60	40	41
Atmospheric sciences	4	4	5	11	10	7	6	3	8
Earth sciences	50	49	41	51	44	38	53	35	28
Oceanography	5	7	4	2	5	3	1	2	5
Mathematics and computer sciences	1,378	1,388	1,342	1,328	1,152	1,136	1,130	1,078	1,264
Computer sciences	1,147	1,165	1,126	1,157	954	926	919	880	1,006
Mathematics and statistics	231	223	216	171	198	210	211	198	258
Physical sciences	165	152	135	135	155	120	108	85	103
Astronomy	10	7	4	6	6	4	3	2	5
Chemistry	71	64	55	55	51	49	51	35	43
Physics	76	77	74	66	89	60	45	45	51
Other physical sciences	8	4	2	8	9	7	9	3	4

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Social and behavioral sciences	2,179	2,338	2,157	1,806	1,608	1,627	1,232	1,260	1,289
Psychology	501	553	468	433	371	460	388	409	439
Social sciences	1,678	1,785	1,689	1,373	1,237	1,167	844	851	850
Anthropology	43	28	33	34	25	25	24	17	15
Area and ethnic studies	67	34	33	41	42	33	24	18	20
Economics	189	185	134	142	119	106	90	68	77
History of science	1	1	2	1	0	1	1	1	0
Linguistics	27	17	24	18	16	9	19	12	17
Political science and public administration	1,150	1,307	1,260	979	895	863	560	610	572
Sociology	41	42	36	16	23	20	13	26	11
Other social sciences	160	171	167	142	117	110	113	99	138
Non-S&E	23,386	22,991	19,753	18,380	17,590	16,592	15,009	14,310	14,389
Temporary visa holder									
All fields	48,798	49,693	52,302	56,329	64,544	77,212	83,140	80,363	75,379
S&E	25,890	26,770	27,833	30,215	37,782	48,442	53,512	50,944	46,508
Engineering	13,310	13,212	13,294	14,589	17,963	22,527	23,946	22,212	19,525
Aerospace	274	282	239	278	291	324	348	391	317
Chemical	638	650	694	775	878	908	917	942	879
Civil	1,143	1,190	1,188	1,444	1,742	2,033	2,335	2,335	2,189
Electrical	5,749	5,792	5,780	6,215	8,113	10,380	9,723	8,304	7,232
Industrial	1,668	1,614	1,601	1,712	1,986	2,719	3,726	3,427	2,643
Materials	295	307	363	416	420	436	505	543	517
Mechanical	1,939	1,871	1,901	2,075	2,566	3,358	3,911	3,733	3,136
Other	1,604	1,506	1,528	1,674	1,967	2,369	2,481	2,537	2,612
Science	12,580	13,558	14,539	15,626	19,819	25,915	29,566	28,732	26,983
Natural sciences	9,658	10,536	11,331	12,215	16,425	22,409	25,921	25,139	23,286
Agricultural sciences	322	315	335	349	349	374	413	452	444
Biological sciences	792	894	848	873	865	904	939	962	915
Earth, atmospheric, and ocean sciences	120	192	178	214	208	221	212	185	172
Atmospheric sciences	12	19	13	25	23	23	23	30	22
Earth sciences	96	166	159	175	173	181	177	143	137
Oceanography	12	7	6	14	12	17	12	12	13
Mathematics and computer sciences	7,500	8,108	8,960	9,824	13,990	19,925	23,328	22,505	20,840
Computer sciences	6,153	6,587	7,148	7,806	11,777	17,193	20,301	18,809	16,718
Mathematics and statistics	1,347	1,521	1,812	2,018	2,213	2,732	3,027	3,696	4,122

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physical sciences	924	1,027	1,010	955	1,013	985	1,029	1,035	915
Astronomy	34	12	24	23	19	11	26	25	33
Chemistry	434	451	477	480	471	450	460	426	349
Physics	451	537	481	433	496	503	512	559	496
Other physical sciences	5	27	28	19	27	21	31	25	37
Social and behavioral sciences	2,922	3,022	3,208	3,411	3,394	3,506	3,645	3,593	3,697
Psychology	166	174	232	193	194	206	209	199	211
Social sciences	2,756	2,848	2,976	3,218	3,200	3,300	3,436	3,394	3,486
Anthropology	38	42	45	41	46	40	42	33	39
Area and ethnic studies	102	94	90	93	94	109	108	100	92
Economics	946	1,012	1,070	1,260	1,287	1,245	1,335	1,304	1,391
History of science	4	3	3	2	2	2	0	3	1
Linguistics	41	50	66	62	62	86	78	59	66
Political science and public administration	1,395	1,356	1,475	1,511	1,471	1,546	1,579	1,550	1,544
Sociology	65	67	45	66	59	76	62	72	84
Other social sciences	165	224	182	183	179	196	232	273	269
Non-S&E	22,908	22,923	24,469	26,114	26,762	28,770	29,628	29,419	28,871
Female									
All citizenships, races, and ethnicity									
All fields	443,154	455,736	453,745	455,240	455,697	468,924	481,457	497,013	511,482
S&E	68,202	73,513	76,351	78,771	81,673	87,850	89,846	93,132	96,031
Engineering	9,339	9,899	10,297	10,988	12,282	13,789	14,118	14,433	13,968
Aerospace	196	191	190	207	178	240	244	269	288
Chemical	506	595	613	617	675	698	784	815	700
Civil	1,649	1,854	1,983	1,996	1,966	2,127	2,088	2,282	2,248
Electrical	2,481	2,514	2,481	2,844	3,745	4,546	4,373	4,034	3,695
Industrial	1,345	1,439	1,401	1,511	1,561	1,687	1,852	2,057	1,840
Materials	244	321	335	348	346	387	426	414	438
Mechanical	788	751	831	960	1,075	1,127	1,211	1,145	1,254
Other	2,130	2,234	2,463	2,505	2,736	2,977	3,140	3,417	3,505
Science	58,863	63,614	66,054	67,783	69,391	74,061	75,728	78,699	82,063
Natural sciences	19,658	21,349	22,386	24,076	27,174	31,197	34,559	37,041	38,315
Agricultural sciences	2,749	3,153	3,173	3,294	3,228	3,440	3,459	3,724	3,944
Biological sciences	6,432	7,078	7,423	7,818	8,326	8,860	9,545	10,358	10,880
Earth, atmospheric, and ocean sciences	795	875	902	916	955	923	945	878	925

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Atmospheric sciences	86	93	91	111	90	76	104	91	99
Earth sciences	632	696	744	719	781	764	745	701	745
Oceanography	77	86	67	86	84	83	96	86	81
Mathematics and computer sciences	8,025	8,554	9,190	10,332	12,987	16,280	18,884	20,326	20,845
Computer sciences	5,508	5,843	6,263	7,088	9,607	12,372	14,394	15,096	15,023
Mathematics and statistics	2,517	2,711	2,927	3,244	3,380	3,908	4,490	5,230	5,822
Physical sciences	1,657	1,689	1,698	1,716	1,678	1,694	1,726	1,755	1,721
Astronomy	70	50	76	66	62	57	70	50	91
Chemistry	1,081	1,132	1,130	1,122	1,109	1,145	1,137	1,116	1,104
Physics	404	409	401	439	436	433	441	495	421
Other physical sciences	102	98	91	89	71	59	78	94	105
Social and behavioral sciences	39,205	42,265	43,668	43,707	42,217	42,864	41,169	41,658	43,748
Psychology	17,644	19,076	19,852	20,005	18,926	19,856	19,473	20,007	21,162
Social sciences	21,561	23,189	23,816	23,702	23,291	23,008	21,696	21,651	22,586
Anthropology	849	860	819	900	847	786	798	870	805
Area and ethnic studies	1,134	1,129	1,150	1,137	1,149	1,136	1,079	1,029	962
Economics	1,728	1,735	1,773	1,852	1,799	1,804	1,896	1,841	2,064
History of science	14	18	14	19	15	18	16	15	18
Linguistics	482	508	492	441	524	499	427	448	427
Political science and public administration	13,548	14,912	15,406	15,206	14,936	14,817	13,197	13,140	13,840
Sociology	1,073	1,177	1,107	1,124	986	901	948	943	1,018
Other social sciences	2,733	2,850	3,055	3,023	3,035	3,047	3,335	3,365	3,452
Non-S&E	374,952	382,223	377,394	376,469	374,024	381,074	391,611	403,881	415,451
U.S. citizen or permanent resident									
All fields	406,035	416,202	411,558	407,741	403,093	410,150	419,117	432,292	448,708
S&E	54,877	59,341	60,923	61,642	60,731	62,355	61,872	64,066	67,913
Engineering	5,262	5,527	5,672	5,686	5,785	5,892	6,051	6,408	6,769
Aerospace	138	144	142	165	134	166	159	168	202
Chemical	233	250	250	249	290	284	348	328	274
Civil	1,173	1,296	1,343	1,332	1,212	1,274	1,201	1,235	1,319
Electrical	840	753	725	785	751	794	735	700	810
Industrial	769	821	804	806	812	722	780	920	896
Materials	133	174	177	169	161	172	205	198	232
Mechanical	517	475	543	575	637	617	675	659	749
Other	1,459	1,614	1,688	1,605	1,788	1,863	1,948	2,200	2,287

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Science	49,615	53,814	55,251	55,956	54,946	56,463	55,821	57,658	61,144
Natural sciences	13,911	15,133	15,706	16,520	17,047	18,124	19,252	20,725	22,416
Agricultural sciences	2,437	2,786	2,769	2,841	2,784	2,934	2,951	3,142	3,348
Biological sciences	5,323	5,924	6,226	6,546	6,864	7,455	8,003	8,736	9,282
Earth, atmospheric, and ocean sciences	689	751	763	787	815	791	775	765	810
Atmospheric sciences	77	73	72	92	64	55	74	73	77
Earth sciences	541	602	632	614	672	656	616	610	660
Oceanography	71	76	59	81	79	80	85	82	73
Mathematics and computer sciences	4,354	4,574	4,816	5,238	5,532	5,870	6,395	6,945	7,796
Computer sciences	2,928	3,065	3,303	3,668	4,031	4,254	4,622	5,088	5,786
Mathematics and statistics	1,426	1,509	1,513	1,570	1,501	1,616	1,773	1,857	2,010
Physical sciences	1,108	1,098	1,132	1,108	1,052	1,074	1,128	1,137	1,180
Astronomy	53	39	67	48	47	43	59	40	73
Chemistry	723	717	733	726	704	738	745	755	776
Physics	243	258	255	263	242	249	259	269	248
Other physical sciences	89	84	77	71	59	44	65	73	83
Social and behavioral sciences	35,704	38,681	39,545	39,436	37,899	38,339	36,569	36,933	38,728
Psychology	17,096	18,466	19,156	19,357	18,300	19,075	18,746	19,236	20,373
Social sciences	18,608	20,215	20,389	20,079	19,599	19,264	17,823	17,697	18,355
Anthropology	802	807	758	840	784	727	726	789	722
Area and ethnic studies	975	970	948	919	949	920	887	840	777
Economics	826	875	750	759	747	735	734	665	764
History of science	13	16	10	14	13	17	14	9	13
Linguistics	348	366	370	324	344	371	290	328	313
Political science and public administration	12,153	13,487	13,774	13,440	13,130	12,948	11,360	11,273	11,850
Sociology	974	1,072	981	1,021	882	800	855	831	890
Other social sciences	2,517	2,622	2,798	2,762	2,750	2,746	2,957	2,962	3,026
Non-S&E	351,158	356,861	350,635	346,099	342,362	347,795	357,245	368,226	380,795
Hispanic or Latino									
All fields	29,950	32,353	33,867	35,810	37,676	40,619	43,774	47,614	51,820
S&E	4,465	5,067	5,391	5,812	6,008	6,617	7,033	7,517	8,294
Engineering	431	520	538	575	555	573	619	684	731
Aerospace	7	10	16	15	16	12	18	17	12
Chemical	19	25	13	16	29	28	36	23	25
Civil	103	152	137	157	132	141	152	127	174

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Electrical	43	46	38	45	61	63	56	54	75
Industrial	112	126	140	142	120	102	140	149	130
Materials	12	18	16	17	10	13	19	27	22
Mechanical	34	41	49	63	59	62	53	75	73
Other	101	102	129	120	128	152	145	212	220
Science	4,034	4,547	4,853	5,237	5,453	6,044	6,414	6,833	7,563
Natural sciences	855	1,000	1,001	1,137	1,238	1,453	1,602	1,814	2,141
Agricultural sciences	147	177	180	190	192	222	233	245	279
Biological sciences	355	414	442	503	542	655	772	855	1,039
Earth, atmospheric, and ocean sciences	39	37	37	43	57	57	55	67	71
Atmospheric sciences	6	4	4	7	7	2	1	7	2
Earth sciences	30	32	31	31	44	48	49	55	64
Oceanography	3	1	2	5	6	7	5	5	5
Mathematics and computer sciences	251	308	290	330	368	436	447	541	638
Computer sciences	178	225	189	236	273	334	329	391	478
Mathematics and statistics	73	83	101	94	95	102	118	150	160
Physical sciences	63	64	52	71	79	83	95	106	114
Astronomy	2	2	1	0	1	4	4	2	5
Chemistry	51	46	42	57	55	57	64	84	77
Physics	6	15	6	13	19	16	23	16	23
Other physical sciences	4	1	3	1	4	6	4	4	9
Social and behavioral sciences	3,179	3,547	3,852	4,100	4,215	4,591	4,812	5,019	5,422
Psychology	1,619	1,743	2,019	2,054	2,108	2,455	2,527	2,666	2,893
Social sciences	1,560	1,804	1,833	2,046	2,107	2,136	2,285	2,353	2,529
Anthropology	58	49	73	57	64	73	74	79	79
Area and ethnic studies	115	140	136	156	160	228	174	168	138
Economics	70	61	47	55	66	64	61	51	79
History of science	0	3	1	1	1	0	0	0	1
Linguistics	32	40	35	41	31	41	33	42	42
Political science and public administration	970	1,165	1,197	1,348	1,368	1,336	1,445	1,465	1,656
Sociology	101	125	117	137	138	113	127	152	150
Other social sciences	214	221	227	251	279	281	371	396	384
Non-S&E	25,485	27,286	28,476	29,998	31,668	34,002	36,741	40,097	43,526
Not Hispanic or Latino									
All fields	376,085	383,849	377,691	371,931	365,417	369,531	375,343	384,678	396,888

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
S&E	50,412	54,274	55,532	55,830	54,723	55,738	54,839	56,549	59,619
Engineering	4,831	5,007	5,134	5,111	5,230	5,319	5,432	5,724	6,038
Aerospace	131	134	126	150	118	154	141	151	190
Chemical	214	225	237	233	261	256	312	305	249
Civil	1,070	1,144	1,206	1,175	1,080	1,133	1,049	1,108	1,145
Electrical	797	707	687	740	690	731	679	646	735
Industrial	657	695	664	664	692	620	640	771	766
Materials	121	156	161	152	151	159	186	171	210
Mechanical	483	434	494	512	578	555	622	584	676
Other	1,358	1,512	1,559	1,485	1,660	1,711	1,803	1,988	2,067
Science	45,581	49,267	50,398	50,719	49,493	50,419	49,407	50,825	53,581
Natural sciences	13,056	14,133	14,705	15,383	15,809	16,671	17,650	18,911	20,275
Agricultural sciences	2,290	2,609	2,589	2,651	2,592	2,712	2,718	2,897	3,069
Biological sciences	4,968	5,510	5,784	6,043	6,322	6,800	7,231	7,881	8,243
Earth, atmospheric, and ocean sciences	650	714	726	744	758	734	720	698	739
Atmospheric sciences	71	69	68	85	57	53	73	66	75
Earth sciences	511	570	601	583	628	608	567	555	596
Oceanography	68	75	57	76	73	73	80	77	68
Mathematics and computer sciences	4,103	4,266	4,526	4,908	5,164	5,434	5,948	6,404	7,158
Computer sciences	2,750	2,840	3,114	3,432	3,758	3,920	4,293	4,697	5,308
Mathematics and statistics	1,353	1,426	1,412	1,476	1,406	1,514	1,655	1,707	1,850
Physical sciences	1,045	1,034	1,080	1,037	973	991	1,033	1,031	1,066
Astronomy	51	37	66	48	46	39	55	38	68
Chemistry	672	671	691	669	649	681	681	671	699
Physics	237	243	249	250	223	233	236	253	225
Other physical sciences	85	83	74	70	55	38	61	69	74
Social and behavioral sciences	32,525	35,134	35,693	35,336	33,684	33,748	31,757	31,914	33,306
Psychology	15,477	16,723	17,137	17,303	16,192	16,620	16,219	16,570	17,480
Social sciences	17,048	18,411	18,556	18,033	17,492	17,128	15,538	15,344	15,826
Anthropology	744	758	685	783	720	654	652	710	643
Area and ethnic studies	860	830	812	763	789	692	713	672	639
Economics	756	814	703	704	681	671	673	614	685
History of science	13	13	9	13	12	17	14	9	12
Linguistics	316	326	335	283	313	330	257	286	271
Political science and public administration	11,183	12,322	12,577	12,092	11,762	11,612	9,915	9,808	10,194

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Sociology	873	947	864	884	744	687	728	679	740
Other social sciences	2,303	2,401	2,571	2,511	2,471	2,465	2,586	2,566	2,642
Non-S&E	325,673	329,575	322,159	316,101	310,694	313,793	320,504	328,129	337,269
American Indian or Alaska Native									
All fields	2,265	2,134	2,201	2,090	2,006	2,124	2,085	2,088	2,193
S&E	306	340	354	344	311	335	350	352	326
Engineering	15	29	23	11	18	21	24	18	28
Aerospace	0	0	0	0	0	1	1	1	3
Chemical	1	1	0	0	1	0	2	0	2
Civil	4	6	3	4	4	6	2	5	6
Electrical	2	2	2	0	2	2	4	1	0
Industrial	3	10	4	4	4	1	6	2	5
Materials	0	2	2	0	1	0	0	0	0
Mechanical	1	3	2	2	1	1	1	1	2
Other	4	5	10	1	5	10	8	8	10
Science	291	311	331	333	293	314	326	334	298
Natural sciences	67	83	78	62	71	59	76	69	83
Agricultural sciences	21	17	26	8	26	11	24	21	24
Biological sciences	22	32	21	28	22	12	25	25	32
Earth, atmospheric, and ocean sciences	3	9	5	0	3	7	3	2	5
Atmospheric sciences	1	0	0	0	0	0	0	0	0
Earth sciences	2	8	5	0	3	7	3	2	5
Oceanography	0	1	0	0	0	0	0	0	0
Mathematics and computer sciences	18	21	17	23	17	26	24	19	15
Computer sciences	11	18	14	22	13	22	22	17	13
Mathematics and statistics	7	3	3	1	4	4	2	2	2
Physical sciences	3	4	9	3	3	3	0	2	7
Astronomy	2	0	1	0	0	1	0	1	0
Chemistry	1	2	7	0	1	0	0	1	4
Physics	0	2	1	2	2	2	0	0	2
Other physical sciences	0	0	0	1	0	0	0	0	1
Social and behavioral sciences	224	228	253	271	222	255	250	265	215
Psychology	89	92	117	119	93	96	99	108	98
Social sciences	135	136	136	152	129	159	151	157	117
Anthropology	6	9	8	10	4	4	10	6	6

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Area and ethnic studies	15	19	20	17	22	35	45	43	34
Economics	4	1	4	3	1	3	1	3	2
History of science	0	0	0	1	1	0	0	0	0
Linguistics	4	3	4	4	1	7	4	0	1
Political science and public administration	81	86	86	106	88	95	74	90	57
Sociology	5	10	5	3	3	3	4	3	2
Other social sciences	20	8	9	8	9	12	13	12	15
Non-S&E	1,959	1,794	1,847	1,746	1,695	1,789	1,735	1,736	1,867
Asian									
All fields	20,341	21,161	21,248	21,459	21,981	22,868	24,256	25,886	27,358
S&E	4,533	4,575	4,768	4,767	4,830	5,185	5,567	5,820	6,188
Engineering	1,159	1,016	1,069	1,005	1,023	1,073	1,040	1,091	1,176
Aerospace	14	18	15	20	14	18	15	26	32
Chemical	47	51	53	56	62	68	73	69	55
Civil	174	156	167	166	128	147	127	170	179
Electrical	391	315	319	298	303	316	259	232	282
Industrial	116	102	113	91	90	82	102	118	119
Materials	28	23	40	36	29	33	34	35	44
Mechanical	86	64	81	75	98	93	104	100	122
Other	303	287	281	263	299	316	326	341	343
Science	3,374	3,559	3,699	3,762	3,807	4,112	4,527	4,729	5,012
Natural sciences	1,709	1,777	1,870	2,005	2,152	2,389	2,733	2,914	3,115
Agricultural sciences	122	137	120	109	103	105	115	119	107
Biological sciences	675	795	860	906	927	998	1,084	1,209	1,241
Earth, atmospheric, and ocean sciences	18	23	19	17	29	39	21	31	34
Atmospheric sciences	2	2	1	3	3	2	1	4	2
Earth sciences	14	21	13	12	24	33	17	24	30
Oceanography	2	0	5	2	2	4	3	3	2
Mathematics and computer sciences	758	722	738	852	982	1,111	1,384	1,421	1,611
Computer sciences	547	499	515	622	747	849	1,045	1,079	1,235
Mathematics and statistics	211	223	223	230	235	262	339	342	376
Physical sciences	136	100	133	121	111	136	129	134	122
Astronomy	5	3	9	2	6	5	5	5	9
Chemistry	107	80	101	98	81	109	87	99	88
Physics	22	15	18	18	22	19	30	28	20

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Other physical sciences	2	2	5	3	2	3	7	2	5
Social and behavioral sciences	1,665	1,782	1,829	1,757	1,655	1,723	1,794	1,815	1,897
Psychology	583	659	712	684	623	697	689	780	859
Social sciences	1,082	1,123	1,117	1,073	1,032	1,026	1,105	1,035	1,038
Anthropology	34	33	17	26	29	30	18	35	17
Area and ethnic studies	54	62	75	70	71	55	72	48	51
Economics	104	112	111	97	109	81	85	99	92
History of science	1	1	1	1	2	0	1	0	2
Linguistics	27	33	36	27	20	36	22	27	33
Political science and public administration	695	706	707	695	655	671	702	625	651
Sociology	54	51	52	40	41	30	59	38	48
Other social sciences	113	125	118	117	105	123	146	163	144
Non-S&E	15,808	16,586	16,480	16,692	17,151	17,683	18,689	20,066	21,170
Black or African American									
All fields	50,583	53,754	55,956	56,622	55,842	56,770	58,078	59,368	61,088
S&E	7,098	7,859	8,505	8,477	8,415	8,430	8,150	8,587	8,936
Engineering	364	377	349	338	370	357	343	381	393
Aerospace	4	3	3	5	2	5	5	5	10
Chemical	15	14	19	15	18	15	22	16	18
Civil	55	47	56	37	32	72	41	43	49
Electrical	56	48	30	53	42	55	34	41	46
Industrial	93	95	90	77	95	71	72	77	90
Materials	5	8	4	12	6	11	9	8	7
Mechanical	26	23	21	15	25	21	26	24	26
Other	110	139	126	124	150	107	134	167	147
Science	6,734	7,482	8,156	8,139	8,045	8,073	7,807	8,206	8,543
Natural sciences	1,123	1,315	1,482	1,460	1,538	1,626	1,813	1,964	2,295
Agricultural sciences	103	99	114	111	102	116	109	131	146
Biological sciences	389	462	527	520	572	625	728	825	968
Earth, atmospheric, and ocean sciences	8	14	14	15	19	10	20	17	18
Atmospheric sciences	2	2	0	2	2	0	3	0	1
Earth sciences	6	11	14	13	16	10	15	17	15
Oceanography	0	1	0	0	1	0	2	0	2
Mathematics and computer sciences	551	655	755	739	771	817	889	933	1,099
Computer sciences	482	580	689	664	698	736	804	844	973

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Mathematics and statistics	69	75	66	75	73	81	85	89	126
Physical sciences	72	85	72	75	74	58	67	58	64
Astronomy	0	1	0	2	0	0	1	2	4
Chemistry	61	71	54	67	61	44	54	43	43
Physics	9	10	15	4	8	10	11	10	9
Other physical sciences	2	3	3	2	5	4	1	3	8
Social and behavioral sciences	5,611	6,167	6,674	6,679	6,507	6,447	5,994	6,242	6,248
Psychology	2,401	2,596	2,668	2,763	2,582	2,680	2,690	2,782	2,913
Social sciences	3,210	3,571	4,006	3,916	3,925	3,767	3,304	3,460	3,335
Anthropology	23	31	24	21	23	27	18	40	33
Area and ethnic studies	133	112	101	108	93	95	93	107	97
Economics	43	44	59	41	57	50	48	54	61
History of science	0	0	1	1	1	1	0	1	1
Linguistics	13	13	9	11	18	15	15	14	17
Political science and public administration	2,483	2,836	3,179	3,039	3,078	2,959	2,438	2,556	2,514
Sociology	139	148	158	179	141	109	128	152	135
Other social sciences	376	387	475	516	514	511	564	536	477
Non-S&E	43,485	45,895	47,451	48,145	47,427	48,340	49,928	50,781	52,152
Native Hawaiian or Other Pacific Islander									
All fields	773	949	1,023	1,073	921	932	974	1,002	926
S&E	116	127	132	140	138	125	169	143	127
Engineering	3	9	8	7	8	6	14	8	9
Aerospace	0	0	1	1	0	0	1	0	0
Chemical	0	1	0	0	0	0	0	0	1
Civil	0	2	3	1	4	3	3	3	3
Electrical	1	0	1	1	0	1	2	0	1
Industrial	0	1	0	1	1	1	3	1	1
Materials	0	0	1	0	0	0	1	0	0
Mechanical	0	0	0	0	1	1	0	0	0
Other	2	5	2	3	2	0	4	4	3
Science	113	118	124	133	130	119	155	135	118
Natural sciences	28	31	27	27	31	26	33	37	29
Agricultural sciences	2	2	9	4	8	2	6	6	4
Biological sciences	13	17	11	10	8	9	10	9	8
Earth, atmospheric, and ocean sciences	1	0	0	1	1	1	0	1	2

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Atmospheric sciences	0	0	0	0	0	0	0	0	1
Earth sciences	1	0	0	1	1	1	0	1	1
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	9	9	5	12	14	12	13	19	14
Computer sciences	7	7	4	11	13	12	12	16	13
Mathematics and statistics	2	2	1	1	1	0	1	3	1
Physical sciences	3	3	2	0	0	2	4	2	1
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	1	2	1	0	0	2	2	2	1
Physics	1	1	1	0	0	0	2	0	0
Other physical sciences	1	0	0	0	0	0	0	0	0
Social and behavioral sciences	85	87	97	106	99	93	122	98	89
Psychology	34	38	46	55	50	44	66	53	47
Social sciences	51	49	51	51	49	49	56	45	42
Anthropology	1	4	1	0	1	3	1	1	3
Area and ethnic studies	5	10	4	6	4	2	3	1	2
Economics	0	0	0	3	0	1	2	0	0
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	1	0	0	0	0	0	0
Political science and public administration	39	31	40	37	39	37	43	33	30
Sociology	0	1	1	1	0	0	2	3	2
Other social sciences	6	3	4	4	5	6	5	7	5
Non-S&E	657	822	891	933	783	807	805	859	799
White									
All fields	254,278	257,659	254,414	249,097	243,757	244,581	249,667	255,914	263,435
S&E	31,777	34,147	34,635	35,231	34,368	34,734	34,431	35,151	36,971
Engineering	2,798	3,032	3,122	3,125	3,275	3,252	3,471	3,654	3,845
Aerospace	102	100	98	109	91	117	108	109	125
Chemical	130	137	143	142	155	140	182	179	145
Civil	745	838	832	829	798	799	784	778	810
Electrical	256	268	254	268	281	278	304	303	331
Industrial	357	395	381	393	436	384	396	515	486
Materials	78	107	104	95	101	100	120	119	139
Mechanical	336	303	354	370	376	363	428	402	445
Other	794	884	956	919	1,037	1,071	1,149	1,249	1,364

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Science	28,979	31,115	31,513	32,106	31,093	31,482	30,960	31,497	33,126
Natural sciences	8,598	9,379	9,549	10,118	10,267	10,714	11,164	11,934	12,550
Agricultural sciences	1,841	2,175	2,087	2,198	2,118	2,247	2,211	2,342	2,494
Biological sciences	3,322	3,629	3,751	3,944	4,114	4,399	4,689	5,079	5,138
Earth, atmospheric, and ocean sciences	562	599	625	650	640	621	611	582	619
Atmospheric sciences	62	60	64	76	49	44	63	57	65
Earth sciences	442	469	515	505	529	510	481	460	491
Oceanography	58	70	46	69	62	67	67	65	63
Mathematics and computer sciences	2,164	2,214	2,337	2,598	2,711	2,753	2,908	3,218	3,516
Computer sciences	1,252	1,247	1,370	1,559	1,735	1,732	1,843	2,119	2,354
Mathematics and statistics	912	967	967	1,039	976	1,021	1,065	1,099	1,162
Physical sciences	709	762	749	728	684	694	745	713	783
Astronomy	36	31	47	38	36	30	45	27	51
Chemistry	428	463	458	441	433	461	484	453	505
Physics	174	199	186	197	172	180	174	182	170
Other physical sciences	71	69	58	52	43	23	42	51	57
Social and behavioral sciences	20,381	21,736	21,964	21,988	20,826	20,768	19,796	19,563	20,576
Psychology	10,315	10,927	11,329	11,554	10,827	11,014	10,590	10,626	11,085
Social sciences	10,066	10,809	10,635	10,434	9,999	9,754	9,206	8,937	9,491
Anthropology	571	577	539	611	582	514	530	541	500
Area and ethnic studies	557	534	510	462	492	428	415	392	353
Economics	468	512	429	451	412	464	450	383	461
History of science	10	11	5	9	7	12	13	6	9
Linguistics	236	239	236	208	239	233	193	205	185
Political science and public administration	6,124	6,699	6,652	6,518	6,211	6,063	5,559	5,408	5,804
Sociology	567	634	576	576	485	490	461	419	478
Other social sciences	1,533	1,603	1,688	1,599	1,571	1,550	1,585	1,583	1,701
Non-S&E	222,501	223,512	219,779	213,866	209,389	209,847	215,236	220,763	226,464
More than one race									
All fields	3,674	5,631	6,670	7,809	8,438	9,623	10,419	11,369	12,154
S&E	682	1,148	1,335	1,551	1,641	1,763	1,986	2,215	2,376
Engineering	61	125	117	147	164	195	194	224	276
Aerospace	2	7	1	8	5	6	6	4	15
Chemical	5	4	4	4	9	7	13	12	15
Civil	15	32	34	43	35	41	38	45	51

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Electrical	8	13	9	11	18	20	21	24	25
Industrial	9	14	12	19	18	21	25	28	29
Materials	0	5	4	5	6	8	6	3	14
Mechanical	5	11	14	15	19	31	28	38	42
Other	17	39	39	42	54	61	57	70	85
Science	621	1,023	1,218	1,404	1,477	1,568	1,792	1,991	2,100
Natural sciences	153	244	371	405	457	502	633	707	783
Agricultural sciences	29	35	55	54	73	72	90	105	120
Biological sciences	56	101	168	193	186	221	285	306	343
Earth, atmospheric, and ocean sciences	5	15	18	27	16	23	22	33	32
Atmospheric sciences	0	0	0	3	1	2	1	3	2
Earth sciences	5	15	18	22	14	21	17	26	30
Oceanography	0	0	0	2	1	0	4	4	0
Mathematics and computer sciences	50	70	102	107	146	148	203	214	250
Computer sciences	37	47	75	83	109	114	150	168	185
Mathematics and statistics	13	23	27	24	37	34	53	46	65
Physical sciences	13	23	28	24	36	38	33	49	38
Astronomy	1	0	0	2	3	1	2	2	3
Chemistry	7	17	17	13	25	23	23	28	24
Physics	3	3	8	8	7	10	7	14	9
Other physical sciences	2	3	3	1	1	4	1	5	2
Social and behavioral sciences	468	779	847	999	1,020	1,066	1,159	1,284	1,317
Psychology	194	325	376	408	440	486	580	643	659
Social sciences	274	454	471	591	580	580	579	641	658
Anthropology	13	22	28	37	29	23	28	40	46
Area and ethnic studies	22	33	34	38	41	41	42	47	57
Economics	13	22	20	16	13	26	21	26	18
History of science	0	0	0	1	0	2	0	1	0
Linguistics	5	10	9	9	11	16	14	16	9
Political science and public administration	155	268	294	364	377	373	345	386	390
Sociology	21	31	35	38	32	27	42	35	39
Other social sciences	45	68	51	88	77	72	87	90	99
Non-S&E	2,992	4,483	5,335	6,258	6,797	7,860	8,433	9,154	9,778
Other or unknown race or ethnicity									
All fields	44,171	42,561	36,179	33,781	32,472	32,633	29,864	29,051	29,734

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
S&E	5,900	6,078	5,803	5,320	5,020	5,166	4,186	4,281	4,695
Engineering	431	419	446	478	372	415	346	348	311
Aerospace	9	6	8	7	6	7	5	6	5
Chemical	16	17	18	16	16	26	20	29	13
Civil	77	63	111	95	79	65	54	64	47
Electrical	83	61	72	109	44	59	55	45	50
Industrial	79	78	64	79	48	60	36	30	36
Materials	10	11	6	4	8	7	16	6	6
Mechanical	29	30	22	35	58	45	35	19	39
Other	128	153	145	133	113	146	125	149	115
Science	5,469	5,659	5,357	4,842	4,648	4,751	3,840	3,933	4,384
Natural sciences	1,378	1,304	1,328	1,306	1,293	1,355	1,198	1,286	1,420
Agricultural sciences	172	144	178	167	162	159	163	173	174
Biological sciences	491	474	446	442	493	536	410	428	513
Earth, atmospheric, and ocean sciences	53	54	45	34	50	33	43	32	29
Atmospheric sciences	4	5	3	1	2	5	5	2	4
Earth sciences	41	46	36	30	41	26	34	25	24
Oceanography	8	3	6	3	7	2	4	5	1
Mathematics and computer sciences	553	575	572	577	523	567	527	580	653
Computer sciences	414	442	447	471	443	455	417	454	535
Mathematics and statistics	139	133	125	106	80	112	110	126	118
Physical sciences	109	57	87	86	65	60	55	73	51
Astronomy	7	2	9	4	1	2	2	1	1
Chemistry	67	36	53	50	48	42	31	45	34
Physics	28	13	20	21	12	12	12	19	15
Other physical sciences	7	6	5	11	4	4	10	8	1
Social and behavioral sciences	4,091	4,355	4,029	3,536	3,355	3,396	2,642	2,647	2,964
Psychology	1,861	2,086	1,889	1,720	1,577	1,603	1,505	1,578	1,819
Social sciences	2,230	2,269	2,140	1,816	1,778	1,793	1,137	1,069	1,145
Anthropology	96	82	68	78	52	53	47	47	38
Area and ethnic studies	74	60	68	62	66	36	43	34	45
Economics	124	123	80	93	89	46	66	49	51
History of science	2	1	2	0	1	2	0	1	0
Linguistics	31	28	40	24	24	23	9	24	26
Political science and public administration	1,606	1,696	1,619	1,333	1,314	1,414	754	710	748

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Sociology	87	72	37	47	42	28	32	29	36
Other social sciences	210	207	226	179	190	191	186	175	201
Non-S&E	38,271	36,483	30,376	28,461	27,452	27,467	25,678	24,770	25,039
Temporary visa holder									
All fields	37,119	39,534	42,187	47,499	52,604	58,774	62,340	64,721	62,774
S&E	13,325	14,172	15,428	17,129	20,942	25,495	27,974	29,066	28,118
Engineering	4,077	4,372	4,625	5,302	6,497	7,897	8,067	8,025	7,199
Aerospace	58	47	48	42	44	74	85	101	86
Chemical	273	345	363	368	385	414	436	487	426
Civil	476	558	640	664	754	853	887	1,047	929
Electrical	1,641	1,761	1,756	2,059	2,994	3,752	3,638	3,334	2,885
Industrial	576	618	597	705	749	965	1,072	1,137	944
Materials	111	147	158	179	185	215	221	216	206
Mechanical	271	276	288	385	438	510	536	486	505
Other	671	620	775	900	948	1,114	1,192	1,217	1,218
Science	9,248	9,800	10,803	11,827	14,445	17,598	19,907	21,041	20,919
Natural sciences	5,747	6,216	6,680	7,556	10,127	13,073	15,307	16,316	15,899
Agricultural sciences	312	367	404	453	444	506	508	582	596
Biological sciences	1,109	1,154	1,197	1,272	1,462	1,405	1,542	1,622	1,598
Earth, atmospheric, and ocean sciences	106	124	139	129	140	132	170	113	115
Atmospheric sciences	9	20	19	19	26	21	30	18	22
Earth sciences	91	94	112	105	109	108	129	91	85
Oceanography	6	10	8	5	5	3	11	4	8
Mathematics and computer sciences	3,671	3,980	4,374	5,094	7,455	10,410	12,489	13,381	13,049
Computer sciences	2,580	2,778	2,960	3,420	5,576	8,118	9,772	10,008	9,237
Mathematics and statistics	1,091	1,202	1,414	1,674	1,879	2,292	2,717	3,373	3,812
Physical sciences	549	591	566	608	626	620	598	618	541
Astronomy	17	11	9	18	15	14	11	10	18
Chemistry	358	415	397	396	405	407	392	361	328
Physics	161	151	146	176	194	184	182	226	173
Other physical sciences	13	14	14	18	12	15	13	21	22
Social and behavioral sciences	3,501	3,584	4,123	4,271	4,318	4,525	4,600	4,725	5,020
Psychology	548	610	696	648	626	781	727	771	789
Social sciences	2,953	2,974	3,427	3,623	3,692	3,744	3,873	3,954	4,231
Anthropology	47	53	61	60	63	59	72	81	83

Table SHED-6

Master's degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Area and ethnic studies	159	159	202	218	200	216	192	189	185
Economics	902	860	1,023	1,093	1,052	1,069	1,162	1,176	1,300
History of science	1	2	4	5	2	1	2	6	5
Linguistics	134	142	122	117	180	128	137	120	114
Political science and public administration	1,395	1,425	1,632	1,766	1,806	1,869	1,837	1,867	1,990
Sociology	99	105	126	103	104	101	93	112	128
Other social sciences	216	228	257	261	285	301	378	403	426
Non-S&E	23,794	25,362	26,759	30,370	31,662	33,279	34,366	35,655	34,656

Note(s):

Racial and ethnic breakouts include U.S. citizens and permanent residents only; temporary visa holder includes all racial and ethnic groups. Hispanic may be any race, and 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, Table Builder.

Science and Engineering Indicators

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Both sexes									
All citizenships, races, and ethnicity									
All fields	59,847	62,181	64,887	67,591	69,115	69,836	71,142	72,332	74,015
S&E	38,470	39,864	41,563	43,995	44,521	44,845	45,729	46,798	47,753
Engineering	8,478	8,873	9,489	10,135	10,406	10,358	10,547	10,951	11,330
Aerospace	237	275	310	336	310	332	342	347	362
Chemical	951	969	1,001	1,169	1,197	1,181	1,169	1,211	1,298
Civil	894	922	1,036	1,154	1,230	1,166	1,246	1,232	1,431
Electrical	2,352	2,475	2,469	2,642	2,651	2,620	2,669	2,720	2,664
Industrial	319	348	389	400	354	375	380	397	402
Materials	651	715	757	734	810	842	877	891	903
Mechanical	1,172	1,277	1,384	1,454	1,586	1,534	1,498	1,665	1,713
Other	1,902	1,892	2,143	2,246	2,268	2,308	2,366	2,488	2,557
Science	29,992	30,991	32,074	33,860	34,115	34,487	35,182	35,847	36,423
Natural sciences	21,313	22,152	22,808	24,098	24,165	24,774	25,403	26,306	26,845
Agricultural sciences	1,053	1,144	1,218	1,228	1,381	1,343	1,364	1,345	1,442
Biological sciences	7,596	7,817	7,825	8,207	7,890	7,858	8,003	8,096	7,863
Earth, atmospheric, and ocean sciences	687	737	794	861	827	912	890	933	961
Atmospheric sciences	120	125	137	126	146	142	153	174	154
Earth sciences	467	497	530	606	575	631	629	648	669
Oceanography	100	115	127	129	106	139	108	111	138
Mathematics and computer sciences	3,152	3,360	3,633	3,799	3,753	3,791	3,859	3,987	4,183
Computer sciences	1,562	1,690	1,809	1,935	1,951	1,936	1,934	1,974	2,174
Mathematics and statistics	1,590	1,670	1,824	1,864	1,802	1,855	1,925	2,013	2,009
Medical and other health sciences	4,265	4,505	4,635	5,056	5,343	5,792	6,201	6,741	7,083
Medical sciences	1,497	1,716	1,867	2,148	2,433	2,597	2,853	3,150	3,281
Other health sciences	2,768	2,789	2,768	2,908	2,910	3,195	3,348	3,591	3,802
Physical sciences	4,560	4,589	4,703	4,947	4,971	5,078	5,086	5,204	5,313
Astronomy	166	170	174	179	153	169	196	211	185
Chemistry	2,685	2,630	2,730	2,921	2,906	3,002	2,990	3,059	3,179
Physics	1,670	1,752	1,740	1,768	1,840	1,833	1,826	1,879	1,873
Other physical sciences	39	37	59	79	72	74	74	55	76
Social and behavioral sciences	8,679	8,839	9,266	9,762	9,950	9,713	9,779	9,541	9,578
Psychology	3,952	3,867	4,280	4,574	4,533	4,526	4,486	4,325	4,297
Social sciences	4,727	4,972	4,986	5,188	5,417	5,187	5,293	5,216	5,281

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Anthropology	596	585	595	606	577	591	581	573	560
Area and ethnic studies	257	274	272	316	309	302	323	316	352
Economics	1,152	1,271	1,227	1,212	1,283	1,298	1,325	1,326	1,375
History of science	27	24	29	41	31	31	30	27	36
Linguistics	235	249	237	240	266	259	229	258	258
Political science and public administration	1,314	1,402	1,507	1,537	1,622	1,518	1,557	1,489	1,531
Sociology	671	635	626	692	733	658	697	707	632
Other social sciences	475	532	493	544	596	530	551	520	537
Non-S&E	21,377	22,317	23,324	23,596	24,594	24,991	25,413	25,534	26,262
U.S. citizen or permanent resident									
All fields	43,514	45,313	47,233	49,267	50,859	51,317	52,258	52,594	53,680
S&E	25,296	26,093	27,209	28,785	29,338	29,622	30,137	30,617	31,154
Engineering	3,713	3,926	4,123	4,451	4,620	4,602	4,574	4,633	4,725
Aerospace	130	163	169	208	194	208	214	197	197
Chemical	440	442	428	520	564	559	563	564	607
Civil	353	366	410	465	535	468	470	449	476
Electrical	815	847	813	822	855	810	746	777	752
Industrial	124	124	133	136	111	126	142	111	137
Materials	283	363	348	348	374	415	437	434	453
Mechanical	505	556	614	643	683	680	654	698	667
Other	1,063	1,065	1,208	1,309	1,304	1,336	1,348	1,403	1,436
Science	21,583	22,167	23,086	24,334	24,718	25,020	25,563	25,984	26,429
Natural sciences	14,614	15,112	15,546	16,333	16,579	17,091	17,659	18,335	18,806
Agricultural sciences	660	694	770	755	888	849	825	841	892
Biological sciences	5,513	5,705	5,710	5,957	5,720	5,740	5,930	6,029	5,931
Earth, atmospheric, and ocean sciences	472	498	540	583	566	610	622	619	634
Atmospheric sciences	83	75	91	85	99	96	106	103	94
Earth sciences	312	339	363	395	391	411	427	434	442
Oceanography	77	84	86	103	76	103	89	82	98
Mathematics and computer sciences	1,621	1,671	1,761	1,823	1,764	1,798	1,827	1,824	1,878
Computer sciences	772	819	849	875	864	816	845	814	890
Mathematics and statistics	849	852	912	948	900	982	982	1,010	988
Medical and other health sciences	3,696	3,835	3,991	4,392	4,667	5,078	5,440	5,935	6,285
Medical sciences	1,108	1,248	1,393	1,656	1,945	2,090	2,319	2,572	2,706
Other health sciences	2,588	2,587	2,598	2,736	2,722	2,988	3,121	3,363	3,579

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physical sciences	2,652	2,709	2,774	2,823	2,974	3,016	3,015	3,087	3,186
Astronomy	108	124	120	131	118	124	140	163	131
Chemistry	1,592	1,584	1,653	1,703	1,787	1,806	1,838	1,873	1,968
Physics	928	985	970	951	1,028	1,041	1,004	1,025	1,042
Other physical sciences	24	16	31	38	41	45	33	26	45
Social and behavioral sciences	6,969	7,055	7,540	8,001	8,139	7,929	7,904	7,649	7,623
Psychology	3,694	3,616	4,017	4,320	4,261	4,292	4,217	4,042	4,038
Social sciences	3,275	3,439	3,523	3,681	3,878	3,637	3,687	3,607	3,585
Anthropology	505	490	508	507	489	486	485	483	477
Area and ethnic studies	214	220	240	265	263	254	262	266	273
Economics	456	538	535	500	566	537	538	516	518
History of science	24	17	24	29	19	25	25	23	25
Linguistics	146	139	131	139	155	152	140	161	152
Political science and public administration	1,013	1,086	1,181	1,234	1,284	1,221	1,223	1,167	1,200
Sociology	555	536	517	580	623	552	591	592	518
Other social sciences	362	413	387	427	479	410	423	399	422
Non-S&E	18,218	19,220	20,024	20,482	21,521	21,695	22,121	21,977	22,526
Hispanic or Latino									
All fields	2,457	2,707	2,938	3,239	3,554	3,891	3,929	4,072	4,388
S&E	1,397	1,483	1,641	1,828	2,019	2,240	2,181	2,249	2,445
Engineering	182	191	202	247	286	285	306	284	321
Aerospace	8	9	11	16	8	15	9	15	13
Chemical	23	30	17	28	31	39	33	32	37
Civil	18	27	24	28	40	35	41	31	42
Electrical	41	36	34	41	54	49	52	37	41
Industrial	10	5	10	12	11	9	9	8	6
Materials	9	14	16	26	26	31	32	29	26
Mechanical	31	28	34	34	35	40	48	45	48
Other	42	42	56	62	81	67	82	87	108
Science	1,215	1,292	1,439	1,581	1,733	1,955	1,875	1,965	2,124
Natural sciences	692	741	820	874	1,014	1,092	1,102	1,209	1,300
Agricultural sciences	45	41	45	49	47	58	54	57	61
Biological sciences	324	329	393	379	425	454	440	472	526
Earth, atmospheric, and ocean sciences	14	18	24	21	31	27	38	42	39
Atmospheric sciences	1	2	2	3	2	8	7	9	7

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Earth sciences	11	11	19	13	25	16	23	28	26
Oceanography	2	5	3	5	4	3	8	5	6
Mathematics and computer sciences	48	65	74	66	77	98	91	107	96
Computer sciences	19	26	40	31	42	36	45	48	36
Mathematics and statistics	29	39	34	35	35	62	46	59	60
Medical and other health sciences	138	156	151	208	280	296	305	352	369
Medical sciences	67	65	79	100	150	135	148	181	168
Other health sciences	71	91	72	108	130	161	157	171	201
Physical sciences	123	132	133	151	154	159	174	179	209
Astronomy	5	5	3	3	9	6	7	11	7
Chemistry	79	76	89	100	100	109	109	115	149
Physics	37	51	41	48	44	43	57	53	50
Other physical sciences	2	0	0	0	1	1	1	0	3
Social and behavioral sciences	523	551	619	707	719	863	773	756	824
Psychology	335	342	408	483	488	590	530	502	527
Social sciences	188	209	211	224	231	273	243	254	297
Anthropology	40	36	36	51	33	40	32	31	41
Area and ethnic studies	14	21	24	23	26	34	33	32	39
Economics	16	17	37	23	35	37	22	28	29
History of science	1	1	0	2	1	1	0	0	0
Linguistics	3	3	5	7	4	13	9	12	7
Political science and public administration	50	58	49	61	54	73	64	70	93
Sociology	49	53	40	34	54	40	67	58	58
Other social sciences	15	20	20	23	24	35	16	23	30
Non-S&E	1,060	1,224	1,297	1,411	1,535	1,651	1,748	1,823	1,943
Not Hispanic or Latino									
All fields	41,057	42,606	44,295	46,028	47,305	47,426	48,329	48,522	49,292
S&E	23,899	24,610	25,568	26,957	27,319	27,382	27,956	28,368	28,709
Engineering	3,531	3,735	3,921	4,204	4,334	4,317	4,268	4,349	4,404
Aerospace	122	154	158	192	186	193	205	182	184
Chemical	417	412	411	492	533	520	530	532	570
Civil	335	339	386	437	495	433	429	418	434
Electrical	774	811	779	781	801	761	694	740	711
Industrial	114	119	123	124	100	117	133	103	131
Materials	274	349	332	322	348	384	405	405	427

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Mechanical	474	528	580	609	648	640	606	653	619
Other	1,021	1,023	1,152	1,247	1,223	1,269	1,266	1,316	1,328
Science	20,368	20,875	21,647	22,753	22,985	23,065	23,688	24,019	24,305
Natural sciences	13,922	14,371	14,726	15,459	15,565	15,999	16,557	17,126	17,506
Agricultural sciences	615	653	725	706	841	791	771	784	831
Biological sciences	5,189	5,376	5,317	5,578	5,295	5,286	5,490	5,557	5,405
Earth, atmospheric, and ocean sciences	458	480	516	562	535	583	584	577	595
Atmospheric sciences	82	73	89	82	97	88	99	94	87
Earth sciences	301	328	344	382	366	395	404	406	416
Oceanography	75	79	83	98	72	100	81	77	92
Mathematics and computer sciences	1,573	1,606	1,687	1,757	1,687	1,700	1,736	1,717	1,782
Computer sciences	753	793	809	844	822	780	800	766	854
Mathematics and statistics	820	813	878	913	865	920	936	951	928
Medical and other health sciences	3,558	3,679	3,840	4,184	4,387	4,782	5,135	5,583	5,916
Medical sciences	1,041	1,183	1,314	1,556	1,795	1,955	2,171	2,391	2,538
Other health sciences	2,517	2,496	2,526	2,628	2,592	2,827	2,964	3,192	3,378
Physical sciences	2,529	2,577	2,641	2,672	2,820	2,857	2,841	2,908	2,977
Astronomy	103	119	117	128	109	118	133	152	124
Chemistry	1,513	1,508	1,564	1,603	1,687	1,697	1,729	1,758	1,819
Physics	891	934	929	903	984	998	947	972	992
Other physical sciences	22	16	31	38	40	44	32	26	42
Social and behavioral sciences	6,446	6,504	6,921	7,294	7,420	7,066	7,131	6,893	6,799
Psychology	3,359	3,274	3,609	3,837	3,773	3,702	3,687	3,540	3,511
Social sciences	3,087	3,230	3,312	3,457	3,647	3,364	3,444	3,353	3,288
Anthropology	465	454	472	456	456	446	453	452	436
Area and ethnic studies	200	199	216	242	237	220	229	234	234
Economics	440	521	498	477	531	500	516	488	489
History of science	23	16	24	27	18	24	25	23	25
Linguistics	143	136	126	132	151	139	131	149	145
Political science and public administration	963	1,028	1,132	1,173	1,230	1,148	1,159	1,097	1,107
Sociology	506	483	477	546	569	512	524	534	460
Other social sciences	347	393	367	404	455	375	407	376	392
Non-S&E	17,158	17,996	18,727	19,071	19,986	20,044	20,373	20,154	20,583
American Indian or Alaska Native									
All fields	232	232	261	241	264	246	250	241	234

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
S&E	122	117	130	131	137	127	114	121	111
Engineering	15	11	7	13	12	10	12	10	16
Aerospace	0	1	0	1	0	0	0	0	2
Chemical	4	1	1	1	4	0	1	1	6
Civil	1	2	0	0	2	1	1	1	1
Electrical	0	1	2	3	1	2	0	1	2
Industrial	0	1	1	0	0	0	2	0	0
Materials	3	1	0	2	0	0	1	0	1
Mechanical	4	2	1	0	3	1	3	3	2
Other	3	2	2	6	2	6	4	4	2
Science	107	106	123	118	125	117	102	111	95
Natural sciences	62	70	67	67	71	68	68	62	64
Agricultural sciences	5	9	4	5	8	6	3	5	8
Biological sciences	25	33	25	16	24	24	23	10	21
Earth, atmospheric, and ocean sciences	0	2	4	1	3	5	4	0	4
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	1	4	0	3	4	2	0	4
Oceanography	0	1	0	1	0	1	2	0	0
Mathematics and computer sciences	8	2	3	8	5	5	5	4	3
Computer sciences	3	2	0	7	4	1	2	3	2
Mathematics and statistics	5	0	3	1	1	4	3	1	1
Medical and other health sciences	14	18	23	21	20	23	25	34	23
Medical sciences	5	5	7	9	6	9	9	19	10
Other health sciences	9	13	16	12	14	14	16	15	13
Physical sciences	10	6	8	16	11	5	8	9	5
Astronomy	0	1	2	1	0	0	0	0	0
Chemistry	7	4	4	12	5	4	7	7	3
Physics	3	1	2	3	5	1	1	2	2
Other physical sciences	0	0	0	0	1	0	0	0	0
Social and behavioral sciences	45	36	56	51	54	49	34	49	31
Psychology	23	21	31	20	21	22	14	18	17
Social sciences	22	15	25	31	33	27	20	31	14
Anthropology	4	6	6	7	8	6	4	6	2
Area and ethnic studies	6	6	10	6	10	7	4	12	3
Economics	1	0	0	1	3	0	1	0	0

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	2	1	1	1	2	2	2
Political science and public administration	4	2	5	8	7	5	3	4	2
Sociology	4	0	1	6	3	6	4	3	2
Other social sciences	3	1	1	2	1	2	2	4	3
Non-S&E	110	115	131	110	127	119	136	120	123
Asian									
All fields	3,125	3,342	3,431	3,440	3,664	3,567	3,791	3,801	4,040
S&E	2,333	2,468	2,467	2,513	2,669	2,604	2,832	2,841	3,082
Engineering	599	573	589	637	664	661	687	664	743
Aerospace	16	15	16	18	12	20	26	13	22
Chemical	58	66	57	70	81	91	86	83	95
Civil	46	35	36	42	59	43	51	45	41
Electrical	179	184	167	179	157	155	163	153	177
Industrial	14	9	11	16	17	12	21	15	19
Materials	46	56	51	45	50	51	57	53	70
Mechanical	59	47	60	85	81	81	78	85	76
Other	181	161	191	182	207	208	205	217	243
Science	1,734	1,895	1,878	1,876	2,005	1,943	2,145	2,177	2,339
Natural sciences	1,327	1,450	1,458	1,425	1,521	1,502	1,685	1,691	1,862
Agricultural sciences	28	34	29	34	35	43	42	36	44
Biological sciences	596	659	656	646	667	632	686	654	715
Earth, atmospheric, and ocean sciences	22	19	13	21	17	28	29	27	26
Atmospheric sciences	6	5	2	3	6	5	9	9	2
Earth sciences	12	13	9	14	11	15	16	16	19
Oceanography	4	1	2	4	0	8	4	2	5
Mathematics and computer sciences	217	199	230	189	192	189	227	219	243
Computer sciences	128	129	128	110	112	88	100	108	139
Mathematics and statistics	89	70	102	79	80	101	127	111	104
Medical and other health sciences	260	302	294	295	354	360	425	451	526
Medical sciences	133	138	141	172	202	193	245	249	263
Other health sciences	127	164	153	123	152	167	180	202	263
Physical sciences	204	237	236	240	256	250	276	304	308
Astronomy	4	7	6	7	9	12	10	12	11
Chemistry	135	165	155	149	174	161	183	208	199

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physics	63	65	72	82	73	73	80	84	97
Other physical sciences	2	0	3	2	0	4	3	0	1
Social and behavioral sciences	407	445	420	451	484	441	460	486	477
Psychology	189	213	199	213	255	228	216	229	236
Social sciences	218	232	221	238	229	213	244	257	241
Anthropology	23	21	35	32	21	20	13	25	18
Area and ethnic studies	21	24	16	25	14	12	17	22	19
Economics	55	60	58	60	65	57	65	60	73
History of science	1	1	0	2	1	0	2	1	0
Linguistics	14	19	9	8	12	9	17	11	16
Political science and public administration	58	57	70	51	59	67	71	72	63
Sociology	35	31	22	37	35	38	32	44	27
Other social sciences	11	19	11	23	22	10	27	22	25
Non-S&E	792	874	964	927	995	963	959	960	958
Black or African American									
All fields	3,759	4,065	4,331	4,780	5,050	5,265	5,709	5,568	6,173
S&E	1,426	1,486	1,637	1,816	1,855	2,024	2,151	2,157	2,356
Engineering	141	175	187	172	165	197	182	171	197
Aerospace	4	9	4	2	5	4	6	8	4
Chemical	15	11	13	17	11	18	15	12	31
Civil	14	13	14	19	26	17	23	17	15
Electrical	32	43	34	40	31	44	27	30	26
Industrial	13	18	23	10	10	9	21	1	13
Materials	10	14	20	12	8	15	12	26	21
Mechanical	13	21	29	17	21	21	16	19	19
Other	40	46	50	55	53	69	62	58	68
Science	1,285	1,311	1,450	1,644	1,690	1,827	1,969	1,986	2,159
Natural sciences	740	805	862	942	933	1,117	1,201	1,310	1,414
Agricultural sciences	21	38	33	32	31	38	43	42	37
Biological sciences	249	267	284	271	219	245	278	287	243
Earth, atmospheric, and ocean sciences	5	15	11	12	11	11	11	13	12
Atmospheric sciences	1	3	4	0	4	6	1	2	3
Earth sciences	3	10	5	9	6	4	7	10	8
Oceanography	1	2	2	3	1	1	3	1	1
Mathematics and computer sciences	54	60	79	79	77	105	83	85	92

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Computer sciences	31	39	52	52	57	69	62	54	64
Mathematics and statistics	23	21	27	27	20	36	21	31	28
Medical and other health sciences	325	346	360	441	488	619	698	790	936
Medical sciences	132	156	157	233	262	335	415	447	513
Other health sciences	193	190	203	208	226	284	283	343	423
Physical sciences	86	79	95	107	107	99	88	93	94
Astronomy	1	0	0	1	1	1	1	1	0
Chemistry	67	58	78	81	88	72	66	79	77
Physics	17	21	15	21	18	24	19	12	9
Other physical sciences	1	0	2	4	0	2	2	1	8
Social and behavioral sciences	545	506	588	702	757	710	768	676	745
Psychology	275	238	299	362	414	406	388	332	372
Social sciences	270	268	289	340	343	304	380	344	373
Anthropology	18	14	20	21	17	21	30	19	23
Area and ethnic studies	30	36	38	42	39	39	49	49	52
Economics	19	15	21	18	11	17	18	21	15
History of science	0	0	1	1	1	0	0	3	2
Linguistics	5	3	2	4	3	3	2	1	5
Political science and public administration	121	126	143	176	184	146	191	156	190
Sociology	47	48	51	55	65	51	66	70	52
Other social sciences	30	26	13	23	23	27	24	25	34
Non-S&E	2,333	2,579	2,694	2,964	3,195	3,241	3,558	3,411	3,817
Native Hawaiian or Other Pacific Islander									
All fields	55	55	70	70	76	91	82	81	76
S&E	37	23	27	44	34	40	37	43	45
Engineering	4	2	7	8	1	3	5	0	5
Aerospace	0	0	0	1	0	0	0	0	0
Chemical	1	0	1	0	0	0	1	0	0
Civil	0	0	0	1	0	0	0	0	1
Electrical	0	0	2	1	0	1	0	0	0
Industrial	0	0	0	0	0	0	0	0	1
Materials	0	0	0	0	1	1	1	0	0
Mechanical	0	1	1	1	0	0	1	0	0
Other	3	1	3	4	0	1	2	0	3
Science	33	21	20	36	33	37	32	43	40

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Natural sciences	26	20	12	28	25	24	23	33	22
Agricultural sciences	1	0	1	1	1	0	0	2	0
Biological sciences	12	10	7	12	8	11	11	7	12
Earth, atmospheric, and ocean sciences	0	1	0	0	1	0	0	1	0
Atmospheric sciences	0	1	0	0	0	0	0	0	0
Earth sciences	0	0	0	0	1	0	0	1	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	3	2	0	1	2	1	1	2	1
Computer sciences	2	0	0	0	0	1	1	0	0
Mathematics and statistics	1	2	0	1	2	0	0	2	1
Medical and other health sciences	4	3	4	11	8	10	10	14	7
Medical sciences	2	2	1	6	2	7	4	6	5
Other health sciences	2	1	3	5	6	3	6	8	2
Physical sciences	6	4	0	3	5	2	1	7	2
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	4	4	0	1	3	0	1	5	1
Physics	2	0	0	2	2	1	0	2	1
Other physical sciences	0	0	0	0	0	1	0	0	0
Social and behavioral sciences	7	1	8	8	8	13	9	10	18
Psychology	1	0	4	6	3	10	4	4	8
Social sciences	6	1	4	2	5	3	5	6	10
Anthropology	1	0	1	0	1	0	1	0	1
Area and ethnic studies	1	0	0	1	2	2	0	2	3
Economics	1	0	0	0	0	0	0	0	0
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	0	0	1	0
Political science and public administration	1	1	3	1	2	1	3	3	6
Sociology	2	0	0	0	0	0	0	0	0
Other social sciences	0	0	0	0	0	0	1	0	0
Non-S&E	18	32	43	26	42	51	45	38	31
White									
All fields	29,455	30,424	31,614	32,622	33,218	33,202	33,281	33,432	33,331
S&E	17,346	17,958	18,615	19,552	19,714	19,620	19,875	20,061	20,074
Engineering	2,393	2,592	2,701	2,928	3,023	2,967	2,882	2,957	3,008
Aerospace	93	112	128	156	150	153	155	153	142

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Chemical	307	296	300	357	383	378	373	383	385
Civil	228	257	295	324	347	324	298	299	324
Electrical	468	486	474	453	494	469	398	443	413
Industrial	77	78	76	89	64	82	73	71	88
Materials	183	253	234	233	263	269	292	280	303
Mechanical	343	402	428	437	484	477	437	472	467
Other	694	708	766	879	838	815	856	856	886
Science	14,953	15,366	15,914	16,624	16,691	16,653	16,993	17,104	17,066
Natural sciences	10,333	10,605	10,919	11,446	11,501	11,702	11,968	12,296	12,373
Agricultural sciences	509	519	586	577	673	633	611	625	665
Biological sciences	3,787	3,859	3,860	4,067	3,886	3,881	3,951	4,057	3,880
Earth, atmospheric, and ocean sciences	385	404	450	483	444	480	486	477	492
Atmospheric sciences	67	61	75	77	82	73	82	78	72
Earth sciences	258	274	302	322	302	325	340	332	342
Oceanography	60	69	73	84	60	82	64	67	78
Mathematics and computer sciences	1,141	1,162	1,183	1,262	1,211	1,172	1,212	1,182	1,210
Computer sciences	514	526	531	554	535	516	529	494	533
Mathematics and statistics	627	636	652	708	676	656	683	688	677
Medical and other health sciences	2,598	2,703	2,799	3,055	3,155	3,318	3,505	3,717	3,838
Medical sciences	657	774	858	971	1,170	1,216	1,273	1,400	1,508
Other health sciences	1,941	1,929	1,941	2,084	1,985	2,102	2,232	2,317	2,330
Physical sciences	1,913	1,958	2,041	2,002	2,132	2,218	2,203	2,238	2,288
Astronomy	84	105	98	100	80	92	115	124	101
Chemistry	1,131	1,104	1,197	1,178	1,243	1,307	1,308	1,320	1,383
Physics	681	734	721	695	774	788	759	773	772
Other physical sciences	17	15	25	29	35	31	21	21	32
Social and behavioral sciences	4,620	4,761	4,995	5,178	5,190	4,951	5,025	4,808	4,693
Psychology	2,471	2,435	2,633	2,799	2,661	2,566	2,647	2,526	2,449
Social sciences	2,149	2,326	2,362	2,379	2,529	2,385	2,378	2,282	2,244
Anthropology	365	359	349	330	331	341	336	332	330
Area and ethnic studies	113	106	129	122	138	131	136	116	127
Economics	279	375	355	331	372	359	357	340	340
History of science	20	12	22	18	16	22	20	17	21
Linguistics	104	99	95	100	110	106	98	118	102
Political science and public administration	627	710	753	781	817	769	761	712	709

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Sociology	375	355	360	391	401	362	355	367	324
Other social sciences	266	310	299	306	344	295	315	280	291
Non-S&E	12,109	12,466	12,999	13,070	13,504	13,582	13,406	13,371	13,257
More than one race									
All fields	337	397	522	643	777	980	1,161	1,243	1,452
S&E	202	252	328	434	502	636	776	804	924
Engineering	32	42	59	78	87	116	110	137	123
Aerospace	2	6	3	3	5	4	5	4	4
Chemical	2	2	5	10	4	11	15	13	10
Civil	3	3	4	8	14	8	13	15	12
Electrical	5	9	16	15	18	20	15	16	26
Industrial	0	1	0	3	3	6	4	5	1
Materials	5	5	6	6	7	14	16	16	15
Mechanical	6	3	9	12	12	13	17	21	14
Other	9	13	16	21	24	40	25	47	41
Science	170	210	269	356	415	520	666	667	801
Natural sciences	101	129	178	232	270	363	467	453	550
Agricultural sciences	5	4	7	4	14	15	18	17	16
Biological sciences	44	59	62	99	110	127	196	162	202
Earth, atmospheric, and ocean sciences	1	6	5	9	8	14	13	23	19
Atmospheric sciences	1	1	1	0	0	0	2	1	2
Earth sciences	0	5	4	7	8	11	7	18	14
Oceanography	0	0	0	2	0	3	4	4	3
Mathematics and computer sciences	5	12	14	20	24	54	41	53	67
Computer sciences	3	3	3	7	16	19	14	24	28
Mathematics and statistics	2	9	11	13	8	35	27	29	39
Medical and other health sciences	20	20	52	57	68	91	134	122	141
Medical sciences	8	10	18	24	31	33	51	58	65
Other health sciences	12	10	34	33	37	58	83	64	76
Physical sciences	26	28	38	43	46	62	65	76	105
Astronomy	2	0	0	3	3	2	3	3	5
Chemistry	14	15	24	24	32	40	45	41	71
Physics	9	13	14	15	10	19	17	30	28
Other physical sciences	1	0	0	1	1	1	0	2	1
Social and behavioral sciences	69	81	91	124	145	157	199	214	251

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Psychology	40	45	47	72	78	104	108	107	141
Social sciences	29	36	44	52	67	53	91	107	110
Anthropology	4	9	5	10	9	6	13	18	20
Area and ethnic studies	2	4	2	10	7	7	9	11	14
Economics	10	4	5	6	12	9	15	15	14
History of science	0	0	0	0	0	0	0	1	1
Linguistics	0	2	4	2	5	5	3	5	9
Political science and public administration	9	7	15	10	19	12	24	30	23
Sociology	3	7	9	8	11	9	16	18	23
Other social sciences	1	3	4	6	4	5	11	9	6
Non-S&E	135	145	194	209	275	344	385	439	528
Other or unknown race or ethnicity									
All fields	4,094	4,091	4,066	4,232	4,256	4,075	4,055	4,156	3,986
S&E	2,433	2,306	2,364	2,467	2,408	2,331	2,171	2,341	2,117
Engineering	347	340	371	368	382	363	390	410	312
Aerospace	7	11	7	11	14	12	13	4	10
Chemical	30	36	34	37	50	22	39	40	43
Civil	43	29	37	43	47	40	43	41	40
Electrical	90	88	84	90	100	70	91	97	67
Industrial	10	12	12	6	6	8	12	11	9
Materials	27	20	21	24	19	34	26	30	17
Mechanical	49	52	52	57	47	47	54	53	41
Other	91	92	124	100	99	130	112	134	85
Science	2,086	1,966	1,993	2,099	2,026	1,968	1,781	1,931	1,805
Natural sciences	1,333	1,292	1,230	1,319	1,244	1,223	1,145	1,281	1,221
Agricultural sciences	46	49	65	53	79	56	54	57	61
Biological sciences	476	489	423	467	381	366	345	380	332
Earth, atmospheric, and ocean sciences	45	33	33	36	51	45	41	36	42
Atmospheric sciences	7	2	7	2	5	4	5	4	8
Earth sciences	28	25	20	30	35	36	32	29	29
Oceanography	10	6	6	4	11	5	4	3	5
Mathematics and computer sciences	145	169	178	198	176	174	167	172	166
Computer sciences	72	94	95	114	98	86	92	83	88
Mathematics and statistics	73	75	83	84	78	88	75	89	78
Medical and other health sciences	337	287	308	304	294	361	338	455	445

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Medical sciences	104	98	132	141	122	162	174	212	174
Other health sciences	233	189	176	163	172	199	164	243	271
Physical sciences	284	265	223	261	263	221	200	181	175
Astronomy	12	6	11	16	16	11	4	12	7
Chemistry	155	158	106	158	142	113	119	98	85
Physics	116	100	105	85	102	92	71	69	83
Other physical sciences	1	1	1	2	3	5	6	2	0
Social and behavioral sciences	753	674	763	780	782	745	636	650	584
Psychology	360	322	396	365	341	366	310	324	288
Social sciences	393	352	367	415	441	379	326	326	296
Anthropology	50	45	56	56	69	52	56	52	42
Area and ethnic studies	27	23	21	36	27	22	14	22	16
Economics	75	67	59	61	68	58	60	52	47
History of science	2	3	1	6	0	2	3	1	1
Linguistics	20	13	14	17	20	15	9	11	11
Political science and public administration	143	125	143	146	142	148	106	120	114
Sociology	40	42	34	49	54	46	51	32	32
Other social sciences	36	34	39	44	61	36	27	36	33
Non-S&E	1,661	1,785	1,702	1,765	1,848	1,744	1,884	1,815	1,869
Temporary visa holder									
All fields	16,333	16,868	17,654	18,324	18,256	18,519	18,884	19,738	20,335
S&E	13,174	13,771	14,354	15,210	15,183	15,223	15,592	16,181	16,599
Engineering	4,765	4,947	5,366	5,684	5,786	5,756	5,973	6,318	6,605
Aerospace	107	112	141	128	116	124	128	150	165
Chemical	511	527	573	649	633	622	606	647	691
Civil	541	556	626	689	695	698	776	783	955
Electrical	1,537	1,628	1,656	1,820	1,796	1,810	1,923	1,943	1,912
Industrial	195	224	256	264	243	249	238	286	265
Materials	368	352	409	386	436	427	440	457	450
Mechanical	667	721	770	811	903	854	844	967	1,046
Other	839	827	935	937	964	972	1,018	1,085	1,121
Science	8,409	8,824	8,988	9,526	9,397	9,467	9,619	9,863	9,994
Natural sciences	6,699	7,040	7,262	7,765	7,586	7,683	7,744	7,971	8,039
Agricultural sciences	393	450	448	473	493	494	539	504	550
Biological sciences	2,083	2,112	2,115	2,250	2,170	2,118	2,073	2,067	1,932

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Earth, atmospheric, and ocean sciences	215	239	254	278	261	302	268	314	327
Atmospheric sciences	37	50	46	41	47	46	47	71	60
Earth sciences	155	158	167	211	184	220	202	214	227
Oceanography	23	31	41	26	30	36	19	29	40
Mathematics and computer sciences	1,531	1,689	1,872	1,976	1,989	1,993	2,032	2,163	2,305
Computer sciences	790	871	960	1,060	1,087	1,120	1,089	1,160	1,284
Mathematics and statistics	741	818	912	916	902	873	943	1,003	1,021
Medical and other health sciences	569	670	644	664	676	714	761	806	798
Medical sciences	389	468	474	492	488	507	534	578	575
Other health sciences	180	202	170	172	188	207	227	228	223
Physical sciences	1,908	1,880	1,929	2,124	1,997	2,062	2,071	2,117	2,127
Astronomy	58	46	54	48	35	45	56	48	54
Chemistry	1,093	1,046	1,077	1,218	1,119	1,196	1,152	1,186	1,211
Physics	742	767	770	817	812	792	822	854	831
Other physical sciences	15	21	28	41	31	29	41	29	31
Social and behavioral sciences	1,710	1,784	1,726	1,761	1,811	1,784	1,875	1,892	1,955
Psychology	258	251	263	254	272	234	269	283	259
Social sciences	1,452	1,533	1,463	1,507	1,539	1,550	1,606	1,609	1,696
Anthropology	91	95	87	99	88	105	96	90	83
Area and ethnic studies	43	54	32	51	46	48	61	50	79
Economics	696	733	692	712	717	761	787	810	857
History of science	3	7	5	12	12	6	5	4	11
Linguistics	89	110	106	101	111	107	89	97	106
Political science and public administration	301	316	326	303	338	297	334	322	331
Sociology	116	99	109	112	110	106	106	115	114
Other social sciences	113	119	106	117	117	120	128	121	115
Non-S&E	3,159	3,097	3,300	3,114	3,073	3,296	3,292	3,557	3,736
Male									
All citizenships, races, and ethnicity									
All fields	30,334	31,322	32,739	33,760	34,455	34,810	35,291	35,888	36,448
S&E	21,377	22,107	23,021	24,072	24,371	24,699	25,048	25,379	25,905
Engineering	6,580	6,867	7,312	7,824	7,980	7,929	8,037	8,265	8,539
Aerospace	207	235	261	283	263	283	304	305	308
Chemical	671	676	703	841	836	818	822	863	896
Civil	655	681	738	840	859	852	853	836	1,026

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Electrical	1,965	2,051	2,105	2,229	2,261	2,202	2,213	2,231	2,219
Industrial	219	244	276	278	233	262	261	294	279
Materials	495	543	555	537	593	626	649	640	631
Mechanical	1,010	1,083	1,172	1,237	1,363	1,293	1,260	1,410	1,437
Other	1,358	1,354	1,502	1,579	1,572	1,593	1,675	1,686	1,743
Science	14,797	15,240	15,709	16,248	16,391	16,770	17,011	17,114	17,366
Natural sciences	11,305	11,631	12,003	12,512	12,487	12,879	13,106	13,331	13,518
Agricultural sciences	562	604	648	635	716	715	688	706	726
Biological sciences	3,609	3,665	3,658	3,832	3,711	3,722	3,823	3,788	3,781
Earth, atmospheric, and ocean sciences	420	418	429	487	468	539	510	522	564
Atmospheric sciences	84	76	79	85	91	91	85	108	93
Earth sciences	281	282	298	345	326	379	375	365	408
Oceanography	55	60	52	57	51	69	50	49	63
Mathematics and computer sciences	2,387	2,528	2,751	2,857	2,811	2,874	2,900	2,998	3,091
Computer sciences	1,251	1,329	1,458	1,532	1,512	1,547	1,497	1,548	1,677
Mathematics and statistics	1,136	1,199	1,293	1,325	1,299	1,327	1,403	1,450	1,414
Medical and other health sciences	1,185	1,271	1,330	1,328	1,457	1,522	1,671	1,804	1,789
Medical sciences	547	608	646	681	699	696	795	852	850
Other health sciences	638	663	684	647	758	826	876	952	939
Physical sciences	3,142	3,145	3,187	3,373	3,324	3,507	3,514	3,513	3,567
Astronomy	109	113	111	117	101	110	123	129	112
Chemistry	1,638	1,602	1,628	1,771	1,700	1,868	1,836	1,866	1,906
Physics	1,368	1,402	1,405	1,437	1,473	1,479	1,506	1,477	1,495
Other physical sciences	27	28	43	48	50	50	49	41	54
Social and behavioral sciences	3,492	3,609	3,706	3,736	3,904	3,891	3,905	3,783	3,848
Psychology	1,089	1,059	1,162	1,213	1,190	1,233	1,218	1,208	1,211
Social sciences	2,403	2,550	2,544	2,523	2,714	2,658	2,687	2,575	2,637
Anthropology	238	211	206	228	224	248	217	189	215
Area and ethnic studies	116	113	130	129	125	128	118	116	135
Economics	746	850	791	797	817	848	873	899	908
History of science	19	17	11	23	15	12	13	10	12
Linguistics	93	116	97	94	117	101	92	95	103
Political science and public administration	716	750	808	757	856	773	829	775	814
Sociology	252	233	259	257	292	281	274	259	233
Other social sciences	223	260	242	238	268	267	271	232	217

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Non-S&E	8,957	9,215	9,718	9,688	10,084	10,111	10,243	10,509	10,543
U.S. citizen or permanent resident									
All fields	20,016	20,640	21,586	22,143	22,954	23,048	23,286	23,431	23,584
S&E	12,545	12,925	13,460	13,972	14,320	14,524	14,645	14,614	14,840
Engineering	2,793	2,925	3,104	3,349	3,456	3,475	3,409	3,360	3,413
Aerospace	115	139	142	172	164	177	188	170	168
Chemical	299	307	302	380	402	402	405	402	417
Civil	238	244	271	300	353	310	287	275	306
Electrical	685	689	708	704	743	698	620	641	620
Industrial	87	75	90	93	77	94	95	76	88
Materials	217	275	247	256	276	323	329	313	299
Mechanical	421	463	505	548	562	564	553	579	561
Other	731	733	839	896	879	907	932	904	954
Science	9,752	10,000	10,356	10,623	10,864	11,049	11,236	11,254	11,427
Natural sciences	7,184	7,364	7,557	7,803	7,946	8,133	8,346	8,442	8,633
Agricultural sciences	343	364	400	390	449	439	396	413	432
Biological sciences	2,597	2,609	2,641	2,767	2,687	2,710	2,842	2,821	2,856
Earth, atmospheric, and ocean sciences	282	274	284	306	314	344	345	318	359
Atmospheric sciences	61	52	55	58	70	64	58	60	61
Earth sciences	181	180	195	203	209	232	242	230	257
Oceanography	40	42	34	45	35	48	45	28	41
Mathematics and computer sciences	1,243	1,283	1,338	1,382	1,348	1,374	1,360	1,380	1,388
Computer sciences	624	655	668	688	675	644	631	622	664
Mathematics and statistics	619	628	670	694	673	730	729	758	724
Medical and other health sciences	927	982	1,036	1,041	1,143	1,200	1,331	1,451	1,440
Medical sciences	344	378	424	453	457	450	539	566	574
Other health sciences	583	604	612	588	686	750	792	885	866
Physical sciences	1,792	1,852	1,858	1,917	2,005	2,066	2,072	2,059	2,158
Astronomy	68	82	75	86	76	77	88	99	84
Chemistry	941	953	973	1,023	1,065	1,116	1,125	1,131	1,186
Physics	765	805	788	786	837	839	841	809	859
Other physical sciences	18	12	22	22	27	34	18	20	29
Social and behavioral sciences	2,568	2,636	2,799	2,820	2,918	2,916	2,890	2,812	2,794
Psychology	1,016	994	1,078	1,129	1,106	1,163	1,140	1,124	1,143
Social sciences	1,552	1,642	1,721	1,691	1,812	1,753	1,750	1,688	1,651

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Anthropology	196	160	177	175	181	193	174	149	180
Area and ethnic studies	93	90	112	109	101	107	91	98	99
Economics	300	360	367	343	369	374	359	378	350
History of science	16	13	11	14	9	9	12	7	9
Linguistics	61	62	52	58	72	55	52	63	61
Political science and public administration	537	567	610	605	641	588	643	607	615
Sociology	194	196	215	209	235	231	224	218	183
Other social sciences	155	194	177	178	204	196	195	168	154
Non-S&E	7,471	7,715	8,126	8,171	8,634	8,524	8,641	8,817	8,744
Hispanic or Latino									
All fields	1,061	1,149	1,185	1,316	1,517	1,592	1,624	1,691	1,805
S&E	651	676	697	791	909	964	963	979	1,111
Engineering	135	132	135	178	214	209	222	212	230
Aerospace	6	8	8	12	6	10	8	14	12
Chemical	16	18	8	18	22	27	17	24	27
Civil	12	18	13	14	19	24	25	20	22
Electrical	35	29	29	34	50	41	48	31	35
Industrial	4	2	6	8	9	8	5	4	5
Materials	6	7	11	18	24	23	21	24	18
Mechanical	21	23	26	30	29	31	42	37	40
Other	35	27	34	44	55	45	56	58	71
Science	516	544	562	613	695	755	741	767	881
Natural sciences	343	357	380	416	468	472	505	521	604
Agricultural sciences	21	20	19	28	22	29	25	22	32
Biological sciences	148	143	163	172	189	182	198	192	252
Earth, atmospheric, and ocean sciences	6	7	13	11	14	14	17	17	23
Atmospheric sciences	1	0	1	1	1	6	2	5	5
Earth sciences	4	5	9	9	11	7	11	12	16
Oceanography	1	2	3	1	2	1	4	0	2
Mathematics and computer sciences	39	49	59	49	61	82	69	79	69
Computer sciences	19	20	31	21	33	29	33	35	27
Mathematics and statistics	20	29	28	28	28	53	36	44	42
Medical and other health sciences	46	50	51	50	88	66	81	94	98
Medical sciences	27	28	28	25	45	32	35	47	42
Other health sciences	19	22	23	25	43	34	46	47	56

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physical sciences	83	88	75	106	94	99	115	117	130
Astronomy	3	3	1	3	8	5	5	6	5
Chemistry	49	40	41	61	51	56	59	69	83
Physics	29	45	33	42	34	38	50	42	40
Other physical sciences	2	0	0	0	1	0	1	0	2
Social and behavioral sciences	173	187	182	197	227	283	236	246	277
Psychology	92	96	85	106	118	152	128	129	140
Social sciences	81	91	97	91	109	131	108	117	137
Anthropology	14	10	11	12	15	18	13	8	18
Area and ethnic studies	4	8	10	11	8	11	13	11	14
Economics	11	15	24	16	19	24	16	25	21
History of science	1	1	0	1	0	0	0	0	0
Linguistics	0	2	2	2	2	7	4	3	3
Political science and public administration	30	32	25	25	29	36	31	39	52
Sociology	18	17	15	15	27	20	25	27	18
Other social sciences	3	6	10	9	9	15	6	4	11
Non-S&E	410	473	488	525	608	628	661	712	694
Not Hispanic or Latino									
All fields	18,955	19,491	20,401	20,827	21,437	21,456	21,662	21,740	21,779
S&E	11,894	12,249	12,763	13,181	13,411	13,560	13,682	13,635	13,729
Engineering	2,658	2,793	2,969	3,171	3,242	3,266	3,187	3,148	3,183
Aerospace	109	131	134	160	158	167	180	156	156
Chemical	283	289	294	362	380	375	388	378	390
Civil	226	226	258	286	334	286	262	255	284
Electrical	650	660	679	670	693	657	572	610	585
Industrial	83	73	84	85	68	86	90	72	83
Materials	211	268	236	238	252	300	308	289	281
Mechanical	400	440	479	518	533	533	511	542	521
Other	696	706	805	852	824	862	876	846	883
Science	9,236	9,456	9,794	10,010	10,169	10,294	10,495	10,487	10,546
Natural sciences	6,841	7,007	7,177	7,387	7,478	7,661	7,841	7,921	8,029
Agricultural sciences	322	344	381	362	427	410	371	391	400
Biological sciences	2,449	2,466	2,478	2,595	2,498	2,528	2,644	2,629	2,604
Earth, atmospheric, and ocean sciences	276	267	271	295	300	330	328	301	336
Atmospheric sciences	60	52	54	57	69	58	56	55	56

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Earth sciences	177	175	186	194	198	225	231	218	241
Oceanography	39	40	31	44	33	47	41	28	39
Mathematics and computer sciences	1,204	1,234	1,279	1,333	1,287	1,292	1,291	1,301	1,319
Computer sciences	605	635	637	667	642	615	598	587	637
Mathematics and statistics	599	599	642	666	645	677	693	714	682
Medical and other health sciences	881	932	985	991	1,055	1,134	1,250	1,357	1,342
Medical sciences	317	350	396	428	412	418	504	519	532
Other health sciences	564	582	589	563	643	716	746	838	810
Physical sciences	1,709	1,764	1,783	1,811	1,911	1,967	1,957	1,942	2,028
Astronomy	65	79	74	83	68	72	83	93	79
Chemistry	892	913	932	962	1,014	1,060	1,066	1,062	1,103
Physics	736	760	755	744	803	801	791	767	819
Other physical sciences	16	12	22	22	26	34	17	20	27
Social and behavioral sciences	2,395	2,449	2,617	2,623	2,691	2,633	2,654	2,566	2,517
Psychology	924	898	993	1,023	988	1,011	1,012	995	1,003
Social sciences	1,471	1,551	1,624	1,600	1,703	1,622	1,642	1,571	1,514
Anthropology	182	150	166	163	166	175	161	141	162
Area and ethnic studies	89	82	102	98	93	96	78	87	85
Economics	289	345	343	327	350	350	343	353	329
History of science	15	12	11	13	9	9	12	7	9
Linguistics	61	60	50	56	70	48	48	60	58
Political science and public administration	507	535	585	580	612	552	612	568	563
Sociology	176	179	200	194	208	211	199	191	165
Other social sciences	152	188	167	169	195	181	189	164	143
Non-S&E	7,061	7,242	7,638	7,646	8,026	7,896	7,980	8,105	8,050
American Indian or Alaska Native									
All fields	97	91	110	100	106	103	98	90	94
S&E	53	55	53	54	53	55	52	44	47
Engineering	14	8	7	11	8	7	8	8	12
Aerospace	0	1	0	1	0	0	0	0	2
Chemical	4	1	1	1	3	0	0	1	2
Civil	1	1	0	0	2	1	1	1	1
Electrical	0	1	2	3	1	2	0	1	2
Industrial	0	0	1	0	0	0	1	0	0
Materials	3	1	0	2	0	0	0	0	1

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Mechanical	4	1	1	0	1	1	2	2	2
Other	2	2	2	4	1	3	4	3	2
Science	39	47	46	43	45	48	44	36	35
Natural sciences	29	31	27	29	31	31	30	23	26
Agricultural sciences	1	5	1	3	2	3	1	3	5
Biological sciences	14	15	9	4	10	12	16	2	7
Earth, atmospheric, and ocean sciences	0	2	4	0	1	3	0	0	3
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	1	4	0	1	3	0	0	3
Oceanography	0	1	0	0	0	0	0	0	0
Mathematics and computer sciences	7	1	2	5	5	3	4	3	2
Computer sciences	2	1	0	5	4	0	1	2	1
Mathematics and statistics	5	0	2	0	1	3	3	1	1
Medical and other health sciences	3	5	5	7	6	7	4	8	4
Medical sciences	1	1	1	3	0	2	0	5	2
Other health sciences	2	4	4	4	6	5	4	3	2
Physical sciences	4	3	6	10	7	3	5	7	5
Astronomy	0	1	1	1	0	0	0	0	0
Chemistry	2	2	3	7	2	3	4	5	3
Physics	2	0	2	2	5	0	1	2	2
Other physical sciences	0	0	0	0	0	0	0	0	0
Social and behavioral sciences	10	16	19	14	14	17	14	13	9
Psychology	2	8	8	5	5	6	4	3	3
Social sciences	8	8	11	9	9	11	10	10	6
Anthropology	1	3	2	2	3	3	3	1	1
Area and ethnic studies	2	4	4	1	2	1	1	3	0
Economics	1	0	0	1	2	0	1	0	0
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	1	0	0	1	1	1	1
Political science and public administration	2	1	3	3	1	3	2	1	0
Sociology	1	0	0	1	1	3	2	3	2
Other social sciences	1	0	1	1	0	0	0	1	2
Non-S&E	44	36	57	46	53	48	46	46	47
Asian									
All fields	1,445	1,485	1,556	1,523	1,638	1,654	1,767	1,740	1,835

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
S&E	1,175	1,153	1,186	1,195	1,275	1,302	1,415	1,375	1,502
Engineering	413	404	390	422	459	460	477	437	516
Aerospace	14	13	12	11	10	15	20	12	15
Chemical	30	36	32	42	47	61	61	43	66
Civil	34	23	25	23	39	26	29	23	28
Electrical	135	154	129	141	131	118	131	118	137
Industrial	9	8	4	6	11	4	11	11	12
Materials	29	39	28	25	35	36	36	32	37
Mechanical	49	33	42	70	60	57	55	67	60
Other	113	98	118	104	126	143	134	131	161
Science	762	749	796	773	816	842	938	938	986
Natural sciences	641	619	672	647	666	705	788	789	846
Agricultural sciences	12	13	16	15	18	12	20	11	14
Biological sciences	270	256	270	272	271	281	308	302	326
Earth, atmospheric, and ocean sciences	14	6	6	9	9	15	15	16	20
Atmospheric sciences	5	1	0	3	4	3	4	2	2
Earth sciences	6	4	5	5	5	8	9	13	15
Oceanography	3	1	1	1	0	4	2	1	3
Mathematics and computer sciences	145	140	167	123	129	131	156	151	163
Computer sciences	94	92	99	76	80	63	75	74	97
Mathematics and statistics	51	48	68	47	49	68	81	77	66
Medical and other health sciences	85	79	83	92	94	117	112	127	144
Medical sciences	55	38	46	60	45	66	69	70	74
Other health sciences	30	41	37	32	49	51	43	57	70
Physical sciences	115	125	130	136	145	149	177	182	179
Astronomy	2	3	3	4	6	5	6	7	6
Chemistry	67	80	68	70	83	88	109	109	103
Physics	46	42	57	61	56	53	61	66	70
Other physical sciences	0	0	2	1	0	3	1	0	0
Social and behavioral sciences	121	130	124	126	150	137	150	149	140
Psychology	46	39	48	39	58	51	51	51	52
Social sciences	75	91	76	87	92	86	99	98	88
Anthropology	8	5	9	7	9	7	3	7	3
Area and ethnic studies	8	7	5	11	9	5	4	6	5
Economics	23	33	28	26	30	29	36	33	37

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
History of science	1	1	0	0	0	0	1	0	0
Linguistics	2	5	0	2	5	1	2	4	5
Political science and public administration	24	25	28	24	26	22	29	31	28
Sociology	6	10	5	9	7	19	11	9	5
Other social sciences	3	5	1	8	6	3	13	8	5
Non-S&E	270	332	370	328	363	352	352	365	333
Black or African American									
All fields	1,257	1,371	1,420	1,588	1,578	1,656	1,805	1,832	1,976
S&E	501	540	591	621	618	653	725	713	727
Engineering	85	108	120	104	110	126	121	113	121
Aerospace	4	7	4	1	3	3	5	4	3
Chemical	8	6	8	10	7	9	8	11	19
Civil	6	8	9	10	22	10	12	10	9
Electrical	22	24	29	33	24	36	20	23	20
Industrial	8	10	14	6	6	5	16	1	4
Materials	6	10	10	4	3	12	8	18	11
Mechanical	10	18	22	15	14	14	13	15	14
Other	21	25	24	25	31	37	39	31	41
Science	416	432	471	517	508	527	604	600	606
Natural sciences	256	283	299	317	300	342	379	394	404
Agricultural sciences	13	13	12	14	15	15	18	22	15
Biological sciences	93	99	105	95	75	91	101	99	93
Earth, atmospheric, and ocean sciences	3	8	6	7	8	5	9	8	5
Atmospheric sciences	1	2	2	0	4	2	1	2	1
Earth sciences	2	5	3	7	3	3	6	5	3
Oceanography	0	1	1	0	1	0	2	1	1
Mathematics and computer sciences	33	34	54	54	52	67	53	58	59
Computer sciences	19	23	33	36	38	42	36	39	44
Mathematics and statistics	14	11	21	18	14	25	17	19	15
Medical and other health sciences	73	84	76	89	95	114	151	159	174
Medical sciences	32	47	40	58	51	50	88	85	91
Other health sciences	41	37	36	31	44	64	63	74	83
Physical sciences	41	45	46	58	55	50	47	48	58
Astronomy	0	0	0	1	0	1	1	1	0
Chemistry	27	26	35	36	42	32	29	38	46

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physics	13	19	11	19	13	15	16	8	8
Other physical sciences	1	0	0	2	0	2	1	1	4
Social and behavioral sciences	160	149	172	200	208	185	225	206	202
Psychology	57	44	56	62	84	75	83	69	72
Social sciences	103	105	116	138	124	110	142	137	130
Anthropology	5	2	3	10	3	3	14	4	5
Area and ethnic studies	8	16	20	12	12	17	12	17	20
Economics	12	10	13	14	8	11	10	16	10
History of science	0	0	0	0	0	0	0	1	1
Linguistics	1	1	1	2	2	0	0	0	0
Political science and public administration	51	54	50	72	74	45	78	67	64
Sociology	15	12	24	18	20	20	19	26	20
Other social sciences	11	10	5	10	5	14	9	6	10
Non-S&E	756	831	829	967	960	1,003	1,080	1,119	1,249
Native Hawaiian or Other Pacific Islander									
All fields	25	23	30	35	30	37	24	29	38
S&E	20	12	12	21	13	16	14	14	23
Engineering	2	1	6	6	1	3	4	0	5
Aerospace	0	0	0	1	0	0	0	0	0
Chemical	1	0	1	0	0	0	1	0	0
Civil	0	0	0	0	0	0	0	0	1
Electrical	0	0	2	1	0	1	0	0	0
Industrial	0	0	0	0	0	0	0	0	1
Materials	0	0	0	0	1	1	0	0	0
Mechanical	0	0	1	1	0	0	1	0	0
Other	1	1	2	3	0	1	2	0	3
Science	18	11	6	15	12	13	10	14	18
Natural sciences	16	10	4	13	8	11	9	11	11
Agricultural sciences	1	0	1	1	0	0	0	0	0
Biological sciences	4	5	2	4	2	5	6	1	5
Earth, atmospheric, and ocean sciences	0	0	0	0	0	0	0	1	0
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	0	0	0	0	0	0	1	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	3	2	0	1	2	1	0	2	1

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Computer sciences	2	0	0	0	0	1	0	0	0
Mathematics and statistics	1	2	0	1	2	0	0	2	1
Medical and other health sciences	3	1	1	6	1	3	3	4	3
Medical sciences	2	1	0	3	0	1	1	1	2
Other health sciences	1	0	1	3	1	2	2	3	1
Physical sciences	5	2	0	1	3	2	0	3	2
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	3	2	0	1	1	0	0	2	1
Physics	2	0	0	0	2	1	0	1	1
Other physical sciences	0	0	0	0	0	1	0	0	0
Social and behavioral sciences	2	1	2	2	4	2	1	3	7
Psychology	0	0	1	1	0	0	0	1	2
Social sciences	2	1	1	1	4	2	1	2	5
Anthropology	0	0	1	0	1	0	0	0	0
Area and ethnic studies	1	0	0	1	1	1	0	1	1
Economics	0	0	0	0	0	0	0	0	0
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	0	0	1	0
Political science and public administration	1	1	0	0	2	1	1	0	4
Sociology	0	0	0	0	0	0	0	0	0
Other social sciences	0	0	0	0	0	0	0	0	0
Non-S&E	5	11	18	14	17	21	10	15	15
White									
All fields	14,011	14,388	15,140	15,333	15,765	15,680	15,622	15,609	15,459
S&E	8,795	9,151	9,562	9,855	9,995	10,074	10,057	9,970	10,017
Engineering	1,844	1,985	2,105	2,293	2,316	2,309	2,204	2,197	2,230
Aerospace	83	95	108	134	129	136	137	133	124
Chemical	217	219	223	276	282	282	282	286	271
Civil	147	174	199	214	234	218	181	187	205
Electrical	420	409	431	407	446	420	335	382	358
Industrial	58	47	56	66	46	65	53	48	60
Materials	144	196	176	187	193	215	233	206	210
Mechanical	288	349	357	376	411	409	381	395	404
Other	487	496	555	633	575	564	602	560	598
Science	6,951	7,166	7,457	7,562	7,679	7,765	7,853	7,773	7,787

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Natural sciences	5,167	5,310	5,454	5,603	5,702	5,803	5,864	5,880	5,918
Agricultural sciences	270	281	313	300	356	339	306	318	335
Biological sciences	1,812	1,838	1,860	1,953	1,890	1,906	1,955	1,963	1,926
Earth, atmospheric, and ocean sciences	231	227	232	256	254	280	276	244	274
Atmospheric sciences	49	47	45	53	59	53	46	48	47
Earth sciences	151	146	159	165	168	187	196	174	194
Oceanography	31	34	28	38	27	40	34	22	33
Mathematics and computer sciences	903	909	918	992	949	926	923	928	927
Computer sciences	431	436	436	463	434	427	402	393	408
Mathematics and statistics	472	473	482	529	515	499	521	535	519
Medical and other health sciences	612	673	714	702	764	776	849	905	854
Medical sciences	184	227	256	256	279	248	278	286	288
Other health sciences	428	446	458	446	485	528	571	619	566
Physical sciences	1,339	1,382	1,417	1,400	1,489	1,576	1,555	1,522	1,602
Astronomy	55	70	62	65	49	57	72	77	66
Chemistry	698	692	749	733	779	846	828	821	865
Physics	573	609	587	585	639	648	645	608	649
Other physical sciences	13	11	19	17	22	25	10	16	22
Social and behavioral sciences	1,784	1,856	2,003	1,959	1,977	1,962	1,989	1,893	1,869
Psychology	710	705	776	798	739	748	783	771	758
Social sciences	1,074	1,151	1,227	1,161	1,238	1,214	1,206	1,122	1,111
Anthropology	147	124	133	117	120	138	121	107	136
Area and ethnic studies	60	39	62	51	56	58	55	50	49
Economics	206	261	263	238	260	272	249	257	238
History of science	14	8	10	10	9	7	8	4	8
Linguistics	49	48	41	46	53	38	41	48	46
Political science and public administration	333	387	432	418	435	404	440	387	398
Sociology	139	136	147	148	156	153	140	137	120
Other social sciences	126	148	139	133	149	144	152	132	116
Non-S&E	5,216	5,237	5,578	5,478	5,770	5,606	5,565	5,639	5,442
More than one race									
All fields	152	185	240	268	351	432	486	529	588
S&E	97	126	157	205	241	308	346	385	395
Engineering	23	28	44	58	54	92	78	102	78
Aerospace	2	5	3	2	4	3	5	4	3

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Chemical	0	1	3	10	2	7	11	10	6
Civil	2	2	1	6	8	5	7	9	8
Electrical	3	5	13	13	12	20	12	12	19
Industrial	0	1	0	2	2	6	2	4	1
Materials	3	4	5	3	5	11	12	12	11
Mechanical	5	2	9	11	8	12	12	18	8
Other	8	8	10	11	13	28	17	33	22
Science	74	98	113	147	187	216	268	283	317
Natural sciences	50	72	82	114	135	164	211	218	252
Agricultural sciences	2	4	4	0	5	6	4	10	5
Biological sciences	20	23	24	50	52	56	92	70	91
Earth, atmospheric, and ocean sciences	0	5	3	3	4	5	8	10	8
Atmospheric sciences	0	1	1	0	0	0	2	1	1
Earth sciences	0	4	2	2	4	4	5	7	7
Oceanography	0	0	0	1	0	1	1	2	0
Mathematics and computer sciences	3	8	10	15	18	38	33	36	51
Computer sciences	2	3	2	6	13	15	12	17	23
Mathematics and statistics	1	5	8	9	5	23	21	19	28
Medical and other health sciences	6	9	17	16	20	30	35	42	31
Medical sciences	2	6	6	9	5	10	12	19	16
Other health sciences	4	3	11	7	15	20	23	23	15
Physical sciences	19	23	24	30	36	29	39	50	66
Astronomy	0	0	0	1	3	0	3	1	2
Chemistry	11	12	12	16	23	18	25	24	41
Physics	7	11	12	13	9	11	11	24	22
Other physical sciences	1	0	0	0	1	0	0	1	1
Social and behavioral sciences	24	26	31	33	52	52	57	65	65
Psychology	11	13	11	16	19	32	19	21	33
Social sciences	13	13	20	17	33	20	38	44	32
Anthropology	2	3	2	3	3	3	3	5	1
Area and ethnic studies	0	1	0	4	3	1	2	2	7
Economics	4	1	4	4	8	7	10	11	8
History of science	0	0	0	0	0	0	0	1	0
Linguistics	0	1	3	1	2	1	0	3	2
Political science and public administration	5	2	5	4	11	4	13	14	7

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Sociology	2	4	5	1	3	3	8	6	6
Other social sciences	0	1	1	0	3	1	2	2	1
Non-S&E	55	59	83	63	110	124	140	144	193
Other or unknown race or ethnicity									
All fields	1,968	1,948	1,905	1,980	1,969	1,894	1,860	1,911	1,789
S&E	1,253	1,212	1,202	1,230	1,216	1,152	1,073	1,134	1,018
Engineering	277	259	297	277	294	269	295	291	221
Aerospace	6	10	7	10	12	10	13	3	9
Chemical	23	26	26	23	39	16	25	27	26
Civil	36	18	24	33	29	26	32	25	32
Electrical	70	67	73	72	79	60	74	74	49
Industrial	8	7	9	5	3	6	7	8	5
Materials	26	18	17	17	15	25	19	21	11
Mechanical	44	37	47	45	39	40	47	45	33
Other	64	76	94	72	78	86	78	88	56
Science	976	953	905	953	922	883	778	843	797
Natural sciences	682	682	639	664	636	605	560	606	572
Agricultural sciences	23	28	34	29	31	35	22	27	26
Biological sciences	236	230	208	217	198	177	166	192	156
Earth, atmospheric, and ocean sciences	28	19	20	20	24	22	20	22	26
Atmospheric sciences	5	1	6	1	2	0	3	2	5
Earth sciences	18	15	13	15	17	20	15	18	19
Oceanography	5	3	1	4	5	2	2	2	2
Mathematics and computer sciences	110	140	128	143	132	126	122	123	116
Computer sciences	55	80	67	81	73	67	72	62	64
Mathematics and statistics	55	60	61	62	59	59	50	61	52
Medical and other health sciences	99	81	89	79	75	87	96	112	132
Medical sciences	41	30	47	39	32	41	56	53	59
Other health sciences	58	51	42	40	43	46	40	59	73
Physical sciences	186	184	160	176	176	158	134	130	116
Astronomy	8	5	8	11	10	9	1	7	5
Chemistry	84	99	65	99	84	73	71	63	44
Physics	93	79	86	64	79	73	57	58	67
Other physical sciences	1	1	1	2	3	3	5	2	0
Social and behavioral sciences	294	271	266	289	286	278	218	237	225

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Psychology	98	89	93	102	83	99	72	79	83
Social sciences	196	182	173	187	203	179	146	158	142
Anthropology	19	13	16	24	27	21	17	17	16
Area and ethnic studies	10	15	11	18	10	13	4	8	3
Economics	43	40	35	44	42	31	37	36	36
History of science	0	3	1	3	0	2	3	1	0
Linguistics	9	5	4	5	8	7	4	3	4
Political science and public administration	91	65	67	59	63	73	49	68	62
Sociology	13	17	19	17	21	13	19	10	12
Other social sciences	11	24	20	17	32	19	13	15	9
Non-S&E	715	736	703	750	753	742	787	777	771
Temporary visa holder									
All fields	10,318	10,682	11,153	11,617	11,501	11,762	12,005	12,457	12,864
S&E	8,832	9,182	9,561	10,100	10,051	10,175	10,403	10,765	11,065
Engineering	3,787	3,942	4,208	4,475	4,524	4,454	4,628	4,905	5,126
Aerospace	92	96	119	111	99	106	116	135	140
Chemical	372	369	401	461	434	416	417	461	479
Civil	417	437	467	540	506	542	566	561	720
Electrical	1,280	1,362	1,397	1,525	1,518	1,504	1,593	1,590	1,599
Industrial	132	169	186	185	156	168	166	218	191
Materials	278	268	308	281	317	303	320	327	332
Mechanical	589	620	667	689	801	729	707	831	876
Other	627	621	663	683	693	686	743	782	789
Science	5,045	5,240	5,353	5,625	5,527	5,721	5,775	5,860	5,939
Natural sciences	4,121	4,267	4,446	4,709	4,541	4,746	4,760	4,889	4,885
Agricultural sciences	219	240	248	245	267	276	292	293	294
Biological sciences	1,012	1,056	1,017	1,065	1,024	1,012	981	967	925
Earth, atmospheric, and ocean sciences	138	144	145	181	154	195	165	204	205
Atmospheric sciences	23	24	24	27	21	27	27	48	32
Earth sciences	100	102	103	142	117	147	133	135	151
Oceanography	15	18	18	12	16	21	5	21	22
Mathematics and computer sciences	1,144	1,245	1,413	1,475	1,463	1,500	1,540	1,618	1,703
Computer sciences	627	674	790	844	837	903	866	926	1,013
Mathematics and statistics	517	571	623	631	626	597	674	692	690
Medical and other health sciences	258	289	294	287	314	322	340	353	349

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Medical sciences	203	230	222	228	242	246	256	286	276
Other health sciences	55	59	72	59	72	76	84	67	73
Physical sciences	1,350	1,293	1,329	1,456	1,319	1,441	1,442	1,454	1,409
Astronomy	41	31	36	31	25	33	35	30	28
Chemistry	697	649	655	748	635	752	711	735	720
Physics	603	597	617	651	636	640	665	668	636
Other physical sciences	9	16	21	26	23	16	31	21	25
Social and behavioral sciences	924	973	907	916	986	975	1,015	971	1,054
Psychology	73	65	84	84	84	70	78	84	68
Social sciences	851	908	823	832	902	905	937	887	986
Anthropology	42	51	29	53	43	55	43	40	35
Area and ethnic studies	23	23	18	20	24	21	27	18	36
Economics	446	490	424	454	448	474	514	521	558
History of science	3	4	0	9	6	3	1	3	3
Linguistics	32	54	45	36	45	46	40	32	42
Political science and public administration	179	183	198	152	215	185	186	168	199
Sociology	58	37	44	48	57	50	50	41	50
Other social sciences	68	66	65	60	64	71	76	64	63
Non-S&E	1,486	1,500	1,592	1,517	1,450	1,587	1,602	1,692	1,799
Female									
All citizenships, races, and ethnicity									
All fields	29,513	30,859	32,148	33,831	34,660	35,026	35,851	36,444	37,567
S&E	17,093	17,757	18,542	19,923	20,150	20,146	20,681	21,419	21,848
Engineering	1,898	2,006	2,177	2,311	2,426	2,429	2,510	2,686	2,791
Aerospace	30	40	49	53	47	49	38	42	54
Chemical	280	293	298	328	361	363	347	348	402
Civil	239	241	298	314	371	314	393	396	405
Electrical	387	424	364	413	390	418	456	489	445
Industrial	100	104	113	122	121	113	119	103	123
Materials	156	172	202	197	217	216	228	251	272
Mechanical	162	194	212	217	223	241	238	255	276
Other	544	538	641	667	696	715	691	802	814
Science	15,195	15,751	16,365	17,612	17,724	17,717	18,171	18,733	19,057
Natural sciences	10,008	10,521	10,805	11,586	11,678	11,895	12,297	12,975	13,327
Agricultural sciences	491	540	570	593	665	628	676	639	716

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Biological sciences	3,987	4,152	4,167	4,375	4,179	4,136	4,180	4,308	4,082
Earth, atmospheric, and ocean sciences	267	319	365	374	359	373	380	411	397
Atmospheric sciences	36	49	58	41	55	51	68	66	61
Earth sciences	186	215	232	261	249	252	254	283	261
Oceanography	45	55	75	72	55	70	58	62	75
Mathematics and computer sciences	765	832	882	942	942	917	959	989	1,092
Computer sciences	311	361	351	403	439	389	437	426	497
Mathematics and statistics	454	471	531	539	503	528	522	563	595
Medical and other health sciences	3,080	3,234	3,305	3,728	3,886	4,270	4,530	4,937	5,294
Medical sciences	950	1,108	1,221	1,467	1,734	1,901	2,058	2,298	2,431
Other health sciences	2,130	2,126	2,084	2,261	2,152	2,369	2,472	2,639	2,863
Physical sciences	1,418	1,444	1,516	1,574	1,647	1,571	1,572	1,691	1,746
Astronomy	57	57	63	62	52	59	73	82	73
Chemistry	1,047	1,028	1,102	1,150	1,206	1,134	1,154	1,193	1,273
Physics	302	350	335	331	367	354	320	402	378
Other physical sciences	12	9	16	31	22	24	25	14	22
Social and behavioral sciences	5,187	5,230	5,560	6,026	6,046	5,822	5,874	5,758	5,730
Psychology	2,863	2,808	3,118	3,361	3,343	3,293	3,268	3,117	3,086
Social sciences	2,324	2,422	2,442	2,665	2,703	2,529	2,606	2,641	2,644
Anthropology	358	374	389	378	353	343	364	384	345
Area and ethnic studies	141	161	142	187	184	174	205	200	217
Economics	406	421	436	415	466	450	452	427	467
History of science	8	7	18	18	16	19	17	17	24
Linguistics	142	133	140	146	149	158	137	163	155
Political science and public administration	598	652	699	780	766	745	728	714	717
Sociology	419	402	367	435	441	377	423	448	399
Other social sciences	252	272	251	306	328	263	280	288	320
Non-S&E	12,420	13,102	13,606	13,908	14,510	14,880	15,170	15,025	15,719
U.S. citizen or permanent resident									
All fields	23,498	24,673	25,647	27,124	27,905	28,269	28,972	29,163	30,096
S&E	12,751	13,168	13,749	14,813	15,018	15,098	15,492	16,003	16,314
Engineering	920	1,001	1,019	1,102	1,164	1,127	1,165	1,273	1,312
Aerospace	15	24	27	36	30	31	26	27	29
Chemical	141	135	126	140	162	157	158	162	190
Civil	115	122	139	165	182	158	183	174	170

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Electrical	130	158	105	118	112	112	126	136	132
Industrial	37	49	43	43	34	32	47	35	49
Materials	66	88	101	92	98	92	108	121	154
Mechanical	84	93	109	95	121	116	101	119	106
Other	332	332	369	413	425	429	416	499	482
Science	11,831	12,167	12,730	13,711	13,854	13,971	14,327	14,730	15,002
Natural sciences	7,430	7,748	7,989	8,530	8,633	8,958	9,313	9,893	10,173
Agricultural sciences	317	330	370	365	439	410	429	428	460
Biological sciences	2,916	3,096	3,069	3,190	3,033	3,030	3,088	3,208	3,075
Earth, atmospheric, and ocean sciences	190	224	256	277	252	266	277	301	275
Atmospheric sciences	22	23	36	27	29	32	48	43	33
Earth sciences	131	159	168	192	182	179	185	204	185
Oceanography	37	42	52	58	41	55	44	54	57
Mathematics and computer sciences	378	388	423	441	416	424	467	444	490
Computer sciences	148	164	181	187	189	172	214	192	226
Mathematics and statistics	230	224	242	254	227	252	253	252	264
Medical and other health sciences	2,769	2,853	2,955	3,351	3,524	3,878	4,109	4,484	4,845
Medical sciences	764	870	969	1,203	1,488	1,640	1,780	2,006	2,132
Other health sciences	2,005	1,983	1,986	2,148	2,036	2,238	2,329	2,478	2,713
Physical sciences	860	857	916	906	969	950	943	1,028	1,028
Astronomy	40	42	45	45	42	47	52	64	47
Chemistry	651	631	680	680	722	690	713	742	782
Physics	163	180	182	165	191	202	163	216	183
Other physical sciences	6	4	9	16	14	11	15	6	16
Social and behavioral sciences	4,401	4,419	4,741	5,181	5,221	5,013	5,014	4,837	4,829
Psychology	2,678	2,622	2,939	3,191	3,155	3,129	3,077	2,918	2,895
Social sciences	1,723	1,797	1,802	1,990	2,066	1,884	1,937	1,919	1,934
Anthropology	309	330	331	332	308	293	311	334	297
Area and ethnic studies	121	130	128	156	162	147	171	168	174
Economics	156	178	168	157	197	163	179	138	168
History of science	8	4	13	15	10	16	13	16	16
Linguistics	85	77	79	81	83	97	88	98	91
Political science and public administration	476	519	571	629	643	633	580	560	585
Sociology	361	340	302	371	388	321	367	374	335
Other social sciences	207	219	210	249	275	214	228	231	268

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Non-S&E	10,747	11,505	11,898	12,311	12,887	13,171	13,480	13,160	13,782
Hispanic or Latino									
All fields	1,396	1,558	1,753	1,923	2,037	2,299	2,305	2,381	2,583
S&E	746	807	944	1,037	1,110	1,276	1,218	1,270	1,334
Engineering	47	59	67	69	72	76	84	72	91
Aerospace	2	1	3	4	2	5	1	1	1
Chemical	7	12	9	10	9	12	16	8	10
Civil	6	9	11	14	21	11	16	11	20
Electrical	6	7	5	7	4	8	4	6	6
Industrial	6	3	4	4	2	1	4	4	1
Materials	3	7	5	8	2	8	11	5	8
Mechanical	10	5	8	4	6	9	6	8	8
Other	7	15	22	18	26	22	26	29	37
Science	699	748	877	968	1,038	1,200	1,134	1,198	1,243
Natural sciences	349	384	440	458	546	620	597	688	696
Agricultural sciences	24	21	26	21	25	29	29	35	29
Biological sciences	176	186	230	207	236	272	242	280	274
Earth, atmospheric, and ocean sciences	8	11	11	10	17	13	21	25	16
Atmospheric sciences	0	2	1	2	1	2	5	4	2
Earth sciences	7	6	10	4	14	9	12	16	10
Oceanography	1	3	0	4	2	2	4	5	4
Mathematics and computer sciences	9	16	15	17	16	16	22	28	27
Computer sciences	0	6	9	10	9	7	12	13	9
Mathematics and statistics	9	10	6	7	7	9	10	15	18
Medical and other health sciences	92	106	100	158	192	230	224	258	271
Medical sciences	40	37	51	75	105	103	113	134	126
Other health sciences	52	69	49	83	87	127	111	124	145
Physical sciences	40	44	58	45	60	60	59	62	79
Astronomy	2	2	2	0	1	1	2	5	2
Chemistry	30	36	48	39	49	53	50	46	66
Physics	8	6	8	6	10	5	7	11	10
Other physical sciences	0	0	0	0	0	1	0	0	1
Social and behavioral sciences	350	364	437	510	492	580	537	510	547
Psychology	243	246	323	377	370	438	402	373	387
Social sciences	107	118	114	133	122	142	135	137	160

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Anthropology	26	26	25	39	18	22	19	23	23
Area and ethnic studies	10	13	14	12	18	23	20	21	25
Economics	5	2	13	7	16	13	6	3	8
History of science	0	0	0	1	1	1	0	0	0
Linguistics	3	1	3	5	2	6	5	9	4
Political science and public administration	20	26	24	36	25	37	33	31	41
Sociology	31	36	25	19	27	20	42	31	40
Other social sciences	12	14	10	14	15	20	10	19	19
Non-S&E	650	751	809	886	927	1,023	1,087	1,111	1,249
Not Hispanic or Latino									
All fields	22,102	23,115	23,894	25,201	25,868	25,970	26,667	26,782	27,513
S&E	12,005	12,361	12,805	13,776	13,908	13,822	14,274	14,733	14,980
Engineering	873	942	952	1,033	1,092	1,051	1,081	1,201	1,221
Aerospace	13	23	24	32	28	26	25	26	28
Chemical	134	123	117	130	153	145	142	154	180
Civil	109	113	128	151	161	147	167	163	150
Electrical	124	151	100	111	108	104	122	130	126
Industrial	31	46	39	39	32	31	43	31	48
Materials	63	81	96	84	96	84	97	116	146
Mechanical	74	88	101	91	115	107	95	111	98
Other	325	317	347	395	399	407	390	470	445
Science	11,132	11,419	11,853	12,743	12,816	12,771	13,193	13,532	13,759
Natural sciences	7,081	7,364	7,549	8,072	8,087	8,338	8,716	9,205	9,477
Agricultural sciences	293	309	344	344	414	381	400	393	431
Biological sciences	2,740	2,910	2,839	2,983	2,797	2,758	2,846	2,928	2,801
Earth, atmospheric, and ocean sciences	182	213	245	267	235	253	256	276	259
Atmospheric sciences	22	21	35	25	28	30	43	39	31
Earth sciences	124	153	158	188	168	170	173	188	175
Oceanography	36	39	52	54	39	53	40	49	53
Mathematics and computer sciences	369	372	408	424	400	408	445	416	463
Computer sciences	148	158	172	177	180	165	202	179	217
Mathematics and statistics	221	214	236	247	220	243	243	237	246
Medical and other health sciences	2,677	2,747	2,855	3,193	3,332	3,648	3,885	4,226	4,574
Medical sciences	724	833	918	1,128	1,383	1,537	1,667	1,872	2,006
Other health sciences	1,953	1,914	1,937	2,065	1,949	2,111	2,218	2,354	2,568

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Earth sciences	0	0	0	0	2	1	2	0	1
Oceanography	0	0	0	1	0	1	2	0	0
Mathematics and computer sciences	1	1	1	3	0	2	1	1	1
Computer sciences	1	1	0	2	0	1	1	1	1
Mathematics and statistics	0	0	1	1	0	1	0	0	0
Medical and other health sciences	11	13	18	14	14	16	21	26	19
Medical sciences	4	4	6	6	6	7	9	14	8
Other health sciences	7	9	12	8	8	9	12	12	11
Physical sciences	6	3	2	6	4	2	3	2	0
Astronomy	0	0	1	0	0	0	0	0	0
Chemistry	5	2	1	5	3	1	3	2	0
Physics	1	1	0	1	0	1	0	0	0
Other physical sciences	0	0	0	0	1	0	0	0	0
Social and behavioral sciences	35	20	37	37	40	32	20	36	22
Psychology	21	13	23	15	16	16	10	15	14
Social sciences	14	7	14	22	24	16	10	21	8
Anthropology	3	3	4	5	5	3	1	5	1
Area and ethnic studies	4	2	6	5	8	6	3	9	3
Economics	0	0	0	0	1	0	0	0	0
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	1	1	1	0	1	1	1
Political science and public administration	2	1	2	5	6	2	1	3	2
Sociology	3	0	1	5	2	3	2	0	0
Other social sciences	2	1	0	1	1	2	2	3	1
Non-S&E	66	79	74	64	74	71	90	74	76
Asian									
All fields	1,680	1,857	1,875	1,917	2,026	1,913	2,024	2,061	2,205
S&E	1,158	1,315	1,281	1,318	1,394	1,302	1,417	1,466	1,580
Engineering	186	169	199	215	205	201	210	227	227
Aerospace	2	2	4	7	2	5	6	1	7
Chemical	28	30	25	28	34	30	25	40	29
Civil	12	12	11	19	20	17	22	22	13
Electrical	44	30	38	38	26	37	32	35	40
Industrial	5	1	7	10	6	8	10	4	7
Materials	17	17	23	20	15	15	21	21	33

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Mechanical	10	14	18	15	21	24	23	18	16
Other	68	63	73	78	81	65	71	86	82
Science	972	1,146	1,082	1,103	1,189	1,101	1,207	1,239	1,353
Natural sciences	686	831	786	778	855	797	897	902	1,016
Agricultural sciences	16	21	13	19	17	31	22	25	30
Biological sciences	326	403	386	374	396	351	378	352	389
Earth, atmospheric, and ocean sciences	8	13	7	12	8	13	14	11	6
Atmospheric sciences	1	4	2	0	2	2	5	7	0
Earth sciences	6	9	4	9	6	7	7	3	4
Oceanography	1	0	1	3	0	4	2	1	2
Mathematics and computer sciences	72	59	63	66	63	58	71	68	80
Computer sciences	34	37	29	34	32	25	25	34	42
Mathematics and statistics	38	22	34	32	31	33	46	34	38
Medical and other health sciences	175	223	211	203	260	243	313	324	382
Medical sciences	78	100	95	112	157	127	176	179	189
Other health sciences	97	123	116	91	103	116	137	145	193
Physical sciences	89	112	106	104	111	101	99	122	129
Astronomy	2	4	3	3	3	7	4	5	5
Chemistry	68	85	87	79	91	73	74	99	96
Physics	17	23	15	21	17	20	19	18	27
Other physical sciences	2	0	1	1	0	1	2	0	1
Social and behavioral sciences	286	315	296	325	334	304	310	337	337
Psychology	143	174	151	174	197	177	165	178	184
Social sciences	143	141	145	151	137	127	145	159	153
Anthropology	15	16	26	25	12	13	10	18	15
Area and ethnic studies	13	17	11	14	5	7	13	16	14
Economics	32	27	30	34	35	28	29	27	36
History of science	0	0	0	2	1	0	1	1	0
Linguistics	12	14	9	6	7	8	15	7	11
Political science and public administration	34	32	42	27	33	45	42	41	35
Sociology	29	21	17	28	28	19	21	35	22
Other social sciences	8	14	10	15	16	7	14	14	20
Non-S&E	522	542	594	599	632	611	607	595	625
Black or African American									
All fields	2,502	2,694	2,911	3,192	3,472	3,609	3,904	3,736	4,197

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
S&E	925	946	1,046	1,195	1,237	1,371	1,426	1,444	1,629
Engineering	56	67	67	68	55	71	61	58	76
Aerospace	0	2	0	1	2	1	1	4	1
Chemical	7	5	5	7	4	9	7	1	12
Civil	8	5	5	9	4	7	11	7	6
Electrical	10	19	5	7	7	8	7	7	6
Industrial	5	8	9	4	4	4	5	0	9
Materials	4	4	10	8	5	3	4	8	10
Mechanical	3	3	7	2	7	7	3	4	5
Other	19	21	26	30	22	32	23	27	27
Science	869	879	979	1,127	1,182	1,300	1,365	1,386	1,553
Natural sciences	484	522	563	625	633	775	822	916	1,010
Agricultural sciences	8	25	21	18	16	23	25	20	22
Biological sciences	156	168	179	176	144	154	177	188	150
Earth, atmospheric, and ocean sciences	2	7	5	5	3	6	2	5	7
Atmospheric sciences	0	1	2	0	0	4	0	0	2
Earth sciences	1	5	2	2	3	1	1	5	5
Oceanography	1	1	1	3	0	1	1	0	0
Mathematics and computer sciences	21	26	25	25	25	38	30	27	33
Computer sciences	12	16	19	16	19	27	26	15	20
Mathematics and statistics	9	10	6	9	6	11	4	12	13
Medical and other health sciences	252	262	284	352	393	505	547	631	762
Medical sciences	100	109	117	175	211	285	327	362	422
Other health sciences	152	153	167	177	182	220	220	269	340
Physical sciences	45	34	49	49	52	49	41	45	36
Astronomy	1	0	0	0	1	0	0	0	0
Chemistry	40	32	43	45	46	40	37	41	31
Physics	4	2	4	2	5	9	3	4	1
Other physical sciences	0	0	2	2	0	0	1	0	4
Social and behavioral sciences	385	357	416	502	549	525	543	470	543
Psychology	218	194	243	300	330	331	305	263	300
Social sciences	167	163	173	202	219	194	238	207	243
Anthropology	13	12	17	11	14	18	16	15	18
Area and ethnic studies	22	20	18	30	27	22	37	32	32
Economics	7	5	8	4	3	6	8	5	5

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
History of science	0	0	1	1	1	0	0	2	1
Linguistics	4	2	1	2	1	3	2	1	5
Political science and public administration	70	72	93	104	110	101	113	89	126
Sociology	32	36	27	37	45	31	47	44	32
Other social sciences	19	16	8	13	18	13	15	19	24
Non-S&E	1,577	1,748	1,865	1,997	2,235	2,238	2,478	2,292	2,568
Native Hawaiian or Other Pacific Islander									
All fields	30	32	40	35	46	54	58	52	38
S&E	17	11	15	23	21	24	23	29	22
Engineering	2	1	1	2	0	0	1	0	0
Aerospace	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	0	0	0	0	0	0
Civil	0	0	0	1	0	0	0	0	0
Electrical	0	0	0	0	0	0	0	0	0
Industrial	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	1	0	0
Mechanical	0	1	0	0	0	0	0	0	0
Other	2	0	1	1	0	0	0	0	0
Science	15	10	14	21	21	24	22	29	22
Natural sciences	10	10	8	15	17	13	14	22	11
Agricultural sciences	0	0	0	0	1	0	0	2	0
Biological sciences	8	5	5	8	6	6	5	6	7
Earth, atmospheric, and ocean sciences	0	1	0	0	1	0	0	0	0
Atmospheric sciences	0	1	0	0	0	0	0	0	0
Earth sciences	0	0	0	0	1	0	0	0	0
Oceanography	0	0	0	0	0	0	0	0	0
Mathematics and computer sciences	0	0	0	0	0	0	1	0	0
Computer sciences	0	0	0	0	0	0	1	0	0
Mathematics and statistics	0	0	0	0	0	0	0	0	0
Medical and other health sciences	1	2	3	5	7	7	7	10	4
Medical sciences	0	1	1	3	2	6	3	5	3
Other health sciences	1	1	2	2	5	1	4	5	1
Physical sciences	1	2	0	2	2	0	1	4	0
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	1	2	0	0	2	0	1	3	0

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Physics	0	0	0	2	0	0	0	1	0
Other physical sciences	0	0	0	0	0	0	0	0	0
Social and behavioral sciences	5	0	6	6	4	11	8	7	11
Psychology	1	0	3	5	3	10	4	3	6
Social sciences	4	0	3	1	1	1	4	4	5
Anthropology	1	0	0	0	0	0	1	0	1
Area and ethnic studies	0	0	0	0	1	1	0	1	2
Economics	1	0	0	0	0	0	0	0	0
History of science	0	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	0	0	0	0
Political science and public administration	0	0	3	1	0	0	2	3	2
Sociology	2	0	0	0	0	0	0	0	0
Other social sciences	0	0	0	0	0	0	1	0	0
Non-S&E	13	21	25	12	25	30	35	23	16
White									
All fields	15,444	16,036	16,474	17,289	17,453	17,522	17,659	17,823	17,872
S&E	8,551	8,807	9,053	9,697	9,719	9,546	9,818	10,091	10,057
Engineering	549	607	596	635	707	658	678	760	778
Aerospace	10	17	20	22	21	17	18	20	18
Chemical	90	77	77	81	101	96	91	97	114
Civil	81	83	96	110	113	106	117	112	119
Electrical	48	77	43	46	48	49	63	61	55
Industrial	19	31	20	23	18	17	20	23	28
Materials	39	57	58	46	70	54	59	74	93
Mechanical	55	53	71	61	73	68	56	77	63
Other	207	212	211	246	263	251	254	296	288
Science	8,002	8,200	8,457	9,062	9,012	8,888	9,140	9,331	9,279
Natural sciences	5,166	5,295	5,465	5,843	5,799	5,899	6,104	6,416	6,455
Agricultural sciences	239	238	273	277	317	294	305	307	330
Biological sciences	1,975	2,021	2,000	2,114	1,996	1,975	1,996	2,094	1,954
Earth, atmospheric, and ocean sciences	154	177	218	227	190	200	210	233	218
Atmospheric sciences	18	14	30	24	23	20	36	30	25
Earth sciences	107	128	143	157	134	138	144	158	148
Oceanography	29	35	45	46	33	42	30	45	45
Mathematics and computer sciences	238	253	265	270	262	246	289	254	283

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Computer sciences	83	90	95	91	101	89	127	101	125
Mathematics and statistics	155	163	170	179	161	157	162	153	158
Medical and other health sciences	1,986	2,030	2,085	2,353	2,391	2,542	2,656	2,812	2,984
Medical sciences	473	547	602	715	891	968	995	1,114	1,220
Other health sciences	1,513	1,483	1,483	1,638	1,500	1,574	1,661	1,698	1,764
Physical sciences	574	576	624	602	643	642	648	716	686
Astronomy	29	35	36	35	31	35	43	47	35
Chemistry	433	412	448	445	464	461	480	499	518
Physics	108	125	134	110	135	140	114	165	123
Other physical sciences	4	4	6	12	13	6	11	5	10
Social and behavioral sciences	2,836	2,905	2,992	3,219	3,213	2,989	3,036	2,915	2,824
Psychology	1,761	1,730	1,857	2,001	1,922	1,818	1,864	1,755	1,691
Social sciences	1,075	1,175	1,135	1,218	1,291	1,171	1,172	1,160	1,133
Anthropology	218	235	216	213	211	203	215	225	194
Area and ethnic studies	53	67	67	71	82	73	81	66	78
Economics	73	114	92	93	112	87	108	83	102
History of science	6	4	12	8	7	15	12	13	13
Linguistics	55	51	54	54	57	68	57	70	56
Political science and public administration	294	323	321	363	382	365	321	325	311
Sociology	236	219	213	243	245	209	215	230	204
Other social sciences	140	162	160	173	195	151	163	148	175
Non-S&E	6,893	7,229	7,421	7,592	7,734	7,976	7,841	7,732	7,815
More than one race									
All fields	185	212	282	375	426	548	675	714	864
S&E	105	126	171	229	261	328	430	419	529
Engineering	9	14	15	20	33	24	32	35	45
Aerospace	0	1	0	1	1	1	0	0	1
Chemical	2	1	2	0	2	4	4	3	4
Civil	1	1	3	2	6	3	6	6	4
Electrical	2	4	3	2	6	0	3	4	7
Industrial	0	0	0	1	1	0	2	1	0
Materials	2	1	1	3	2	3	4	4	4
Mechanical	1	1	0	1	4	1	5	3	6
Other	1	5	6	10	11	12	8	14	19
Science	96	112	156	209	228	304	398	384	484

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Natural sciences	51	57	96	118	135	199	256	235	298
Agricultural sciences	3	0	3	4	9	9	14	7	11
Biological sciences	24	36	38	49	58	71	104	92	111
Earth, atmospheric, and ocean sciences	1	1	2	6	4	9	5	13	11
Atmospheric sciences	1	0	0	0	0	0	0	0	1
Earth sciences	0	1	2	5	4	7	2	11	7
Oceanography	0	0	0	1	0	2	3	2	3
Mathematics and computer sciences	2	4	4	5	6	16	8	17	16
Computer sciences	1	0	1	1	3	4	2	7	5
Mathematics and statistics	1	4	3	4	3	12	6	10	11
Medical and other health sciences	14	11	35	41	48	61	99	80	110
Medical sciences	6	4	12	15	26	23	39	39	49
Other health sciences	8	7	23	26	22	38	60	41	61
Physical sciences	7	5	14	13	10	33	26	26	39
Astronomy	2	0	0	2	0	2	0	2	3
Chemistry	3	3	12	8	9	22	20	17	30
Physics	2	2	2	2	1	8	6	6	6
Other physical sciences	0	0	0	1	0	1	0	1	0
Social and behavioral sciences	45	55	60	91	93	105	142	149	186
Psychology	29	32	36	56	59	72	89	86	108
Social sciences	16	23	24	35	34	33	53	63	78
Anthropology	2	6	3	7	6	3	10	13	19
Area and ethnic studies	2	3	2	6	4	6	7	9	7
Economics	6	3	1	2	4	2	5	4	6
History of science	0	0	0	0	0	0	0	0	1
Linguistics	0	1	1	1	3	4	3	2	7
Political science and public administration	4	5	10	6	8	8	11	16	16
Sociology	1	3	4	7	8	6	8	12	17
Other social sciences	1	2	3	6	1	4	9	7	5
Non-S&E	80	86	111	146	165	220	245	295	335
Other or unknown race or ethnicity									
All fields	2,126	2,143	2,161	2,252	2,287	2,181	2,195	2,245	2,197
S&E	1,180	1,094	1,162	1,237	1,192	1,179	1,098	1,207	1,099
Engineering	70	81	74	91	88	94	95	119	91
Aerospace	1	1	0	1	2	2	0	1	1

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Chemical	7	10	8	14	11	6	14	13	17
Civil	7	11	13	10	18	14	11	16	8
Electrical	20	21	11	18	21	10	17	23	18
Industrial	2	5	3	1	3	2	5	3	4
Materials	1	2	4	7	4	9	7	9	6
Mechanical	5	15	5	12	8	7	7	8	8
Other	27	16	30	28	21	44	34	46	29
Science	1,110	1,013	1,088	1,146	1,104	1,085	1,003	1,088	1,008
Natural sciences	651	610	591	655	608	618	585	675	649
Agricultural sciences	23	21	31	24	48	21	32	30	35
Biological sciences	240	259	215	250	183	189	179	188	176
Earth, atmospheric, and ocean sciences	17	14	13	16	27	23	21	14	16
Atmospheric sciences	2	1	1	1	3	4	2	2	3
Earth sciences	10	10	7	15	18	16	17	11	10
Oceanography	5	3	5	0	6	3	2	1	3
Mathematics and computer sciences	35	29	50	55	44	48	45	49	50
Computer sciences	17	14	28	33	25	19	20	21	24
Mathematics and statistics	18	15	22	22	19	29	25	28	26
Medical and other health sciences	238	206	219	225	219	274	242	343	313
Medical sciences	63	68	85	102	90	121	118	159	115
Other health sciences	175	138	134	123	129	153	124	184	198
Physical sciences	98	81	63	85	87	63	66	51	59
Astronomy	4	1	3	5	6	2	3	5	2
Chemistry	71	59	41	59	58	40	48	35	41
Physics	23	21	19	21	23	19	14	11	16
Other physical sciences	0	0	0	0	0	2	1	0	0
Social and behavioral sciences	459	403	497	491	496	467	418	413	359
Psychology	262	233	303	263	258	267	238	245	205
Social sciences	197	170	194	228	238	200	180	168	154
Anthropology	31	32	40	32	42	31	39	35	26
Area and ethnic studies	17	8	10	18	17	9	10	14	13
Economics	32	27	24	17	26	27	23	16	11
History of science	2	0	0	3	0	0	0	0	1
Linguistics	11	8	10	12	12	8	5	8	7
Political science and public administration	52	60	76	87	79	75	57	52	52

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Sociology	27	25	15	32	33	33	32	22	20
Other social sciences	25	10	19	27	29	17	14	21	24
Non-S&E	946	1,049	999	1,015	1,095	1,002	1,097	1,038	1,098
Temporary visa holder									
All fields	6,015	6,186	6,501	6,707	6,755	6,757	6,879	7,281	7,471
S&E	4,342	4,589	4,793	5,110	5,132	5,048	5,189	5,416	5,534
Engineering	978	1,005	1,158	1,209	1,262	1,302	1,345	1,413	1,479
Aerospace	15	16	22	17	17	18	12	15	25
Chemical	139	158	172	188	199	206	189	186	212
Civil	124	119	159	149	189	156	210	222	235
Electrical	257	266	259	295	278	306	330	353	313
Industrial	63	55	70	79	87	81	72	68	74
Materials	90	84	101	105	119	124	120	130	118
Mechanical	78	101	103	122	102	125	137	136	170
Other	212	206	272	254	271	286	275	303	332
Science	3,364	3,584	3,635	3,901	3,870	3,746	3,844	4,003	4,055
Natural sciences	2,578	2,773	2,816	3,056	3,045	2,937	2,984	3,082	3,154
Agricultural sciences	174	210	200	228	226	218	247	211	256
Biological sciences	1,071	1,056	1,098	1,185	1,146	1,106	1,092	1,100	1,007
Earth, atmospheric, and ocean sciences	77	95	109	97	107	107	103	110	122
Atmospheric sciences	14	26	22	14	26	19	20	23	28
Earth sciences	55	56	64	69	67	73	69	79	76
Oceanography	8	13	23	14	14	15	14	8	18
Mathematics and computer sciences	387	444	459	501	526	493	492	545	602
Computer sciences	163	197	170	216	250	217	223	234	271
Mathematics and statistics	224	247	289	285	276	276	269	311	331
Medical and other health sciences	311	381	350	377	362	392	421	453	449
Medical sciences	186	238	252	264	246	261	278	292	299
Other health sciences	125	143	98	113	116	131	143	161	150
Physical sciences	558	587	600	668	678	621	629	663	718
Astronomy	17	15	18	17	10	12	21	18	26
Chemistry	396	397	422	470	484	444	441	451	491
Physics	139	170	153	166	176	152	157	186	195
Other physical sciences	6	5	7	15	8	13	10	8	6
Social and behavioral sciences	786	811	819	845	825	809	860	921	901

Table SHED-7

Doctoral degrees awarded, by sex, citizenship, race, ethnicity, and field: 2011–19

(Number)

Sex, citizenship, race, ethnicity, and field	2011	2012	2013	2014	2015	2016	2017	2018	2019
Psychology	185	186	179	170	188	164	191	199	191
Social sciences	601	625	640	675	637	645	669	722	710
Anthropology	49	44	58	46	45	50	53	50	48
Area and ethnic studies	20	31	14	31	22	27	34	32	43
Economics	250	243	268	258	269	287	273	289	299
History of science	0	3	5	3	6	3	4	1	8
Linguistics	57	56	61	65	66	61	49	65	64
Political science and public administration	122	133	128	151	123	112	148	154	132
Sociology	58	62	65	64	53	56	56	74	64
Other social sciences	45	53	41	57	53	49	52	57	52
Non-S&E	1,673	1,597	1,708	1,597	1,623	1,709	1,690	1,865	1,937

Note(s):

Racial and ethnic breakouts include U.S. citizens and permanent residents only; temporary visa holder includes all racial and ethnic groups. Hispanic may be any race, and 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, Table Builder.

Science and Engineering Indicators

Table SHED-8

Associate's degrees in S&E technologies awarded to U.S. citizens and permanent residents, by sex, race, ethnicity, and field: 2019

(Number)

Field	U.S. citizen or permanent resident	Male	Female	Hispanic or Latino	Not Hispanic or Latino	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Other or unknown race or ethnicity
S&E technologies	122,003	44,592	77,411	23,126	98,877	1,037	5,713	14,260	386	68,989	3,444	5,048
Engineering technologies	30,306	25,800	4,506	4,921	25,385	287	1,029	2,786	78	19,232	827	1,146
Engineering technology, general	1,308	1,096	212	158	1,150	15	115	95	2	817	50	56
Architectural engineering technologies/ technicians	643	440	203	87	556	7	26	63	3	352	14	91
Audiovisual communications technologies/ technicians	2,174	1,586	588	485	1,689	5	56	459	3	1,008	76	82
Civil engineering technologies/ technicians	721	649	72	96	625	3	23	76	3	484	12	24
Communications technologies/ technicians and support services, other	62	33	29	9	53	0	4	11	0	35	2	1
Communications technology/ technician	175	113	62	17	158	0	0	22	0	128	4	4
Computer engineering technologies/ technicians	1,447	1,257	190	198	1,249	6	92	192	2	860	40	57
Construction engineering technologies	638	548	90	140	498	12	15	65	0	380	10	16
Drafting/ design engineering technologies/ technicians	1,760	1,397	363	286	1,474	9	90	86	14	1,174	43	58
Electrical engineering technologies/ technicians	3,728	3,435	293	636	3,092	21	128	321	23	2,376	87	136
Electromechanical instrumentation and maintenance technologies/ technicians	4,703	3,954	749	788	3,915	39	189	356	3	3,030	133	165
Engineering-related fields	29	27	2	2	27	0	0	1	1	23	1	1
Engineering-related technologies	299	273	26	28	271	2	6	8	1	244	4	6
Environmental control technologies/ technicians	1,617	1,406	211	402	1,215	16	62	117	1	922	48	49
Industrial production technologies/ technicians	3,885	3,332	553	386	3,499	33	90	445	10	2,713	98	110
Mechanical engineering related technologies/ technicians	2,120	1,940	180	362	1,758	31	62	146	3	1,354	59	103
Mining and petroleum technologies/ technicians	237	210	27	36	201	2	1	31	0	153	7	7

Table SHED-8

Associate's degrees in S&E technologies awarded to U.S. citizens and permanent residents, by sex, race, ethnicity, and field: 2019

(Number)

Field	U.S. citizen or permanent resident	Male	Female	Hispanic or Latino	Not Hispanic or Latino	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Other or unknown race or ethnicity
Nanotechnology	19	13	6	0	19	0	0	0	0	15	3	1
Nuclear engineering technologies/ technicians	92	79	13	2	90	1	4	5	0	72	4	4
Precision metal working	3,300	3,006	294	588	2,712	68	36	157	6	2,236	103	106
Quality control and safety technologies/ technicians	955	695	260	184	771	12	14	98	3	560	26	58
Engineering technologies/ technicians, other	394	311	83	31	363	5	16	32	0	296	3	11
Health technologies	87,048	15,894	71,154	17,156	69,892	722	4,429	10,879	298	47,321	2,446	3,797
Allied health and medical assisting services	28,189	4,609	23,580	5,807	22,382	195	1,292	3,245	123	15,528	828	1,171
Allied health diagnostic, intervention, and treatment professions	27,212	7,685	19,527	5,534	21,678	178	1,411	2,263	96	16,201	695	834
American Sign Language	1,024	130	894	248	776	8	10	74	1	616	41	26
Clinical/ medical laboratory science/ research and allied professions	2,970	644	2,326	399	2,571	37	260	369	12	1,641	76	176
Dental support services and allied professions	7,242	430	6,812	1,345	5,897	49	545	430	14	4,473	200	186
Dietetics and clinical nutrition services	163	16	147	28	135	2	15	14	1	91	9	3
Health aides/ attendants/ orderlies	36	6	30	0	36	0	0	2	1	33	0	0
Health and medical administrative services	11,531	694	10,837	1,445	10,086	114	333	2,934	31	5,278	340	1,056
Health/ medical preparatory programs	2,211	431	1,780	784	1,427	26	283	266	2	711	88	51
Medical illustration and informatics	43	12	31	2	41	0	4	8	0	29	0	0
Mental and social health services and allied professions	4,061	808	3,253	669	3,392	58	81	1,088	7	1,924	117	117
Ophthalmic and optometric support services and allied professions	469	119	350	118	351	10	37	56	0	222	10	16
Practical nursing, vocational nursing and nursing assistants	1,611	229	1,382	721	890	41	148	88	10	419	35	149

Table SHED-8

Associate's degrees in S&E technologies awarded to U.S. citizens and permanent residents, by sex, race, ethnicity, and field: 2019

(Number)

Field	U.S. citizen or permanent resident	Male	Female	Hispanic or Latino	Not Hispanic or Latino	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Other or unknown race or ethnicity
Rehabilitation and therapeutic professions	286	81	205	56	230	4	10	42	0	155	7	12
Science technologies	3,447	1,973	1,474	856	2,591	23	217	433	4	1,720	116	78
Science technologies/ technicians, general	62	19	43	14	48	2	3	1	1	36	2	3
Biology technician/ biotechnology laboratory technician	307	109	198	31	276	2	30	33	0	183	14	14
Nuclear and industrial radiologic technologies/ technicians	168	140	28	26	142	4	2	9	0	118	6	3
Physical science technologies/ technicians	1,492	1,139	353	469	1,023	11	53	248	1	660	29	21
Science technologies/ technicians, other	1,418	566	852	316	1,102	4	129	142	2	723	65	37
Other S&E technologies	1,202	925	277	193	1,009	5	38	162	6	716	55	27
Intelligence, command control and information operations	867	648	219	138	729	3	29	100	2	547	37	11
Military applied sciences	179	144	35	34	145	1	3	42	3	80	11	5
Military systems and maintenance technology	112	96	16	13	99	1	5	17	1	64	7	4
Military technologies and applied sciences, other	44	37	7	8	36	0	1	3	0	25	0	7

Note(s):

Awards at the detailed field level in this table will not match other tables and figures in this report due to the allocation of all Industrial production technologies/technicians awards under Engineering technologies.

Source(s):

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

Science and Engineering Indicators

Table SHED-9

International undergraduate student enrollment in U.S. universities, by field and selected regions, countries, or economies of origin: 2019–20

(Number)

Region, country, or economy	All fields	S&E									Non-S&E	
		All S&E fields	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences		
2019												
Total	418,660	174,920	50,860	3,030	17,510	37,440	16,930	8,010	10,460	30,690	243,730	
China	139,090	62,990	11,310	1,290	4,190	12,430	12,300	3,390	3,600	14,490	76,090	
India	22,760	13,200	4,510	100	1,200	4,200	600	450	530	1,600	9,560	
South Korea	23,740	8,710	2,060	140	960	2,170	700	460	640	1,590	15,020	
Saudi Arabia	17,390	8,030	5,070	30	450	1,440	70	360	140	470	9,360	
Vietnam	18,000	6,700	1,750	70	1,090	2,140	360	460	290	530	11,300	
Kuwait	6,750	5,300	4,680	10	190	40	40	90	50	210	1,450	
Nepal	7,370	4,490	1,000	40	440	2,450	150	150	90	180	2,880	
Canada	13,790	4,070	880	110	960	500	150	160	430	860	9,720	
Nigeria	6,030	2,960	1,090	10	620	760	40	70	100	260	3,070	
Brazil	10,020	2,650	860	40	340	470	70	90	270	520	7,370	
Malaysia	4,030	2,420	1,000	50	260	370	200	150	170	230	1,600	
Taiwan	7,130	2,360	570	60	290	560	140	100	220	410	4,780	
Japan	8,900	2,260	270	60	220	430	100	100	260	820	6,640	
Mexico	5,800	2,080	930	50	230	290	60	100	140	300	3,720	
Indonesia	4,570	1,870	670	80	170	390	150	50	90	270	2,710	
Pakistan	3,270	1,700	570	10	120	530	60	50	50	300	1,570	
United Kingdom	6,210	1,530	210	40	200	170	80	80	280	470	4,680	
Turkey	3,200	1,500	630	10	90	380	40	30	90	230	1,700	
Oman	2,170	1,360	990	10	40	100	20	100	10	90	820	
Hong Kong	3,680	1,340	240	50	110	290	110	70	150	330	2,340	
Other locations	104,770	37,420	11,550	780	5,350	7,340	1,480	1,510	2,880	6,520	67,350	
2020												
Total	314,560	137,620	37,430	2,260	14,330	32,380	13,340	5,990	8,780	23,120	176,930	
China	98,130	47,760	7,770	830	3,220	10,280	9,620	2,420	2,950	10,670	50,370	
India	17,950	10,810	3,350	80	1,030	3,840	520	350	430	1,220	7,140	
Vietnam	15,180	5,990	1,530	70	930	2,120	310	380	270	400	9,190	
South Korea	14,730	5,530	1,280	90	690	1,490	430	270	390	880	9,200	
Saudi Arabia	11,620	5,460	3,420	20	310	990	50	240	110	310	6,160	
Kuwait	5,030	3,910	3,350	10	180	40	30	80	50	160	1,120	
Nepal	5,960	3,870	820	30	340	2,210	110	110	90	160	2,090	
Canada	11,890	3,630	750	110	870	470	160	150	390	740	8,260	
Nigeria	4,930	2,380	840	10	500	680	30	50	80	200	2,550	
Brazil	7,910	2,250	650	30	270	470	50	70	280	440	5,660	
Taiwan	4,990	1,870	430	40	250	480	120	80	160	300	3,120	
Mexico	4,920	1,790	770	40	210	270	50	80	130	250	3,130	
Japan	6,510	1,770	210	50	190	370	80	80	200	580	4,740	
Malaysia	2,530	1,550	600	20	140	310	130	80	100	160	980	
Pakistan	2,670	1,470	440	10	120	530	60	30	40	240	1,200	
Indonesia	3,230	1,410	470	60	130	330	110	30	70	210	1,820	

Table SHED-9

International undergraduate student enrollment in U.S. universities, by field and selected regions, countries, or economies of origin: 2019–20

(Number)

Region, country, or economy	All fields	S&E									Non-S&E
		All S&E fields	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
United Kingdom	5,000	1,320	180	20	180	150	70	60	250	410	3,690
Turkey	2,390	1,170	450	10	90	340	40	30	80	150	1,210
Oman	1,940	1,170	790	10	40	100	20	110	0	90	770
Spain	3,210	1,070	340	20	180	140	80	50	110	160	2,140
Other locations	83,860	31,470	8,980	700	4,470	6,790	1,280	1,230	2,610	5,400	52,400

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 and the inclusion of a small number of students who could not be classified according to field of study. 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 (2021) of the Student and Exchange Visitor Information System (SEVIS) database.

Science and Engineering Indicators

Table SHED-10

International graduate student enrollment in U.S. universities, by field and selected regions, countries, or economies of origin: 2019–20

(Number)

Region, country, or economy	All fields	S&E									Non-S&E
		All S&E fields	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
2019											
Total	363,290	230,770	81,550	4,490	16,990	63,760	21,220	18,480	3,790	20,520	132,520
China	129,340	86,110	30,470	1,410	6,270	18,350	13,590	7,230	1,070	7,730	43,230
India	89,760	69,900	25,470	570	3,070	33,940	2,460	2,560	390	1,450	19,860
South Korea	16,130	6,910	2,220	140	600	810	530	610	320	1,690	9,220
Iran	7,770	6,480	4,040	100	280	920	170	670	60	250	1,290
Taiwan	8,760	4,920	1,920	90	480	1,140	400	490	110	280	3,840
Bangladesh	5,810	4,910	2,440	80	370	890	180	610	10	340	900
Saudi Arabia	8,270	4,100	1,610	60	470	870	310	330	100	330	4,180
Nepal	4,020	3,160	710	260	480	630	110	750	20	190	860
Nigeria	5,960	3,060	980	160	350	600	170	350	60	400	2,900
Canada	9,010	2,700	590	70	430	240	210	310	360	510	6,300
Turkey	3,390	2,160	850	20	180	320	100	140	100	450	1,230
Vietnam	3,530	1,840	430	20	170	500	260	230	50	190	1,680
Brazil	4,550	1,770	500	210	240	190	70	140	70	350	2,780
Pakistan	2,400	1,580	560	20	90	450	70	140	20	220	820
Sri Lanka	1,760	1,540	290	40	140	100	180	740	10	50	210
Mexico	3,190	1,540	440	80	230	100	100	190	50	370	1,650
Ghana	2,230	1,350	270	70	150	120	240	150	20	330	880
Colombia	2,700	1,320	420	80	170	90	90	140	30	300	1,380
Germany	2,230	1,040	200	40	150	100	100	130	50	290	1,190
France	2,200	1,040	450	20	80	100	110	80	30	190	1,160
Other locations	50,300	23,340	6,680	930	2,610	3,340	1,770	2,490	890	4,630	26,960
2020											
Total	290,140	188,200	65,450	4,160	15,420	50,870	16,460	16,470	3,270	16,090	101,940
China	98,170	68,290	24,290	1,200	5,470	14,780	9,730	6,260	940	5,620	29,880
India	68,920	52,990	18,390	510	2,670	25,630	2,010	2,330	340	1,120	15,940
South Korea	13,830	6,310	2,040	140	580	730	490	560	300	1,480	7,520
Iran	6,390	5,270	3,230	90	250	760	140	550	50	200	1,110
Bangladesh	5,320	4,570	2,330	80	340	820	160	570	10	260	760
Taiwan	6,950	4,170	1,560	90	430	940	340	470	100	240	2,780
Saudi Arabia	6,780	3,390	1,350	50	380	750	240	260	80	270	3,390
Nepal	3,690	2,950	650	240	450	630	130	670	20	180	740
Nigeria	5,070	2,770	920	140	360	510	160	320	50	310	2,300
Canada	7,680	2,430	530	110	420	240	170	290	290	390	5,250
Turkey	2,950	1,950	770	20	170	280	100	130	90	390	1,010
Vietnam	3,290	1,790	410	20	190	480	240	240	40	160	1,500
Brazil	3,730	1,620	450	210	220	180	80	140	50	280	2,110
Mexico	2,890	1,460	420	70	220	100	100	190	40	310	1,440
Pakistan	2,150	1,440	510	20	90	450	70	130	20	150	710
Sri Lanka	1,520	1,360	260	40	130	90	160	630	10	40	160
Colombia	2,340	1,230	420	70	170	70	100	140	30	240	1,110
Ghana	1,960	1,210	270	70	150	100	210	150	20	240	750

Table SHED-10

International graduate student enrollment in U.S. universities, by field and selected regions, countries, or economies of origin: 2019–20

(Number)

Region, country, or economy	All fields	S&E									Non-S&E
		All S&E fields	Engineering	Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
Egypt	1,310	970	520	10	80	160	20	110	10	70	340
Japan	1,960	900	190	30	100	130	50	80	30	280	1,060
Other locations	43,240	21,150	5,930	940	2,570	3,060	1,780	2,240	760	3,860	22,100

Note(s):

Data include active foreign national students on F-1 visas and exclude those on optional practical training. Graduate enrollment includes master's and doctoral degrees. Numbers are rounded to the nearest 10. Places of origin are ordered by total number of S&E students. Detail may not add to total because of rounding and the inclusion of a small number of students who could not be classified according to field of study. 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 (2021) of the Student and Exchange Visitor Information System (SEVIS) database.

Science and Engineering Indicators

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Argentina									
All fields	79,533	80,296	82,919	76,413	76,413	88,639	NA	NA	NA
S&E fields	24,940	25,868	27,543	16,192	16,192	30,072	NA	NA	NA
Physical and biological sciences and mathematics and statistics	2,713	2,830	2,832	4,686	4,686	3,448	NA	NA	NA
Computer sciences	2,385	2,367	2,482	NA	NA	2,120	NA	NA	NA
Agricultural sciences	2,586	3,023	2,968	3,273	3,273	2,893	NA	NA	NA
Social and behavioral sciences	10,312	10,400	11,004	NA	NA	11,643	NA	NA	NA
Engineering	6,944	7,248	8,257	8,233	8,233	9,968	NA	NA	NA
Australia									
All fields	203,906	217,961	220,797	194,610	194,308	192,490	198,097	199,694	206,726
S&E fields	49,494	52,492	53,831	53,249	53,884	55,182	55,093	55,196	59,137
Physical and biological sciences and mathematics and statistics	11,094	11,664	11,893	12,838	13,801	16,008	16,020	15,808	16,292
Computer sciences	7,055	6,994	6,943	6,395	6,141	6,279	6,442	6,754	7,927
Agricultural sciences	1,522	1,519	1,479	1,222	1,133	1,071	1,159	1,321	1,471
Social and behavioral sciences	14,121	15,428	16,155	16,649	16,749	17,859	17,418	17,156	17,924
Engineering	15,702	16,887	17,361	16,145	16,060	13,966	14,054	14,158	15,522
Austria									
All fields	32,143	35,633	38,735	40,811	37,254	37,264	37,358	36,242	35,028
S&E fields	12,738	14,164	15,183	15,962	15,503	14,900	15,809	13,911	12,151
Physical and biological sciences and mathematics and statistics	2,114	2,423	2,399	3,030	2,660	2,556	2,576	2,646	2,651
Computer sciences	1,454	1,444	1,392	1,354	1,410	1,322	1,342	1,300	1,433
Agricultural sciences	313	409	451	392	376	327	390	401	388
Social and behavioral sciences	4,344	5,119	6,221	6,964	6,478	6,419	6,965	5,290	3,453
Engineering	4,513	4,769	4,720	4,222	4,580	4,276	4,537	4,275	4,225
Belgium									
All fields	67,683	62,323	64,725	65,947	67,114	70,513	70,060	69,357	69,797
S&E fields	16,187	16,901	17,365	17,435	18,207	16,482	17,446	16,934	17,117
Physical and biological sciences and mathematics and statistics	1,410	1,491	1,517	1,459	1,575	1,954	1,829	1,590	1,656
Computer sciences	1,339	1,395	1,389	1,266	1,290	990	1,479	1,822	2,130
Agricultural sciences	1,463	1,462	1,487	1,451	1,536	1,270	1,406	1,500	1,314
Social and behavioral sciences	5,687	6,086	6,107	6,261	6,427	5,702	5,334	5,123	5,194
Engineering	6,288	6,467	6,865	6,998	7,379	6,566	7,398	6,899	6,823
Brazil									
All fields	973,839	1,016,713	1,050,413	991,010	1,027,092	1,150,067	1,169,449	1,199,769	1,264,288
S&E fields	192,616	201,636	209,920	208,304	219,525	235,267	262,301	282,278	314,863
Physical and biological sciences and mathematics and statistics	16,500	19,204	21,137	19,927	20,806	23,066	23,717	25,882	15,901
Computer sciences	39,360	36,767	37,266	35,249	35,560	37,464	37,943	35,841	43,562
Agricultural sciences	18,271	19,985	18,839	19,111	20,120	22,641	24,920	25,935	30,468
Social and behavioral sciences	48,441	50,788	47,029	43,198	43,734	46,165	50,163	53,628	61,622
Engineering	70,044	74,892	85,649	90,819	99,305	105,931	125,558	140,992	163,310
Bulgaria									
All fields	36,477	NA	NA	38,303	35,556	34,158	33,313	31,101	29,700
S&E fields	15,547	NA	NA	16,648	14,786	14,118	13,224	12,139	11,302
Physical and biological sciences and mathematics and statistics	1,438	NA	NA	1,412	1,243	1,224	1,110	1,059	953
Computer sciences	949	NA	NA	1,247	1,100	1,222	1,123	1,301	1,303

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agricultural sciences	758	NA	NA	537	523	547	610	547	536
Social and behavioral sciences	6,757	NA	NA	7,577	6,734	6,266	5,706	4,884	4,702
Engineering	5,645	NA	NA	5,875	5,186	4,859	4,675	4,348	3,808
Canada									
All fields	179,337	184,138	189,942	193,455	197,776	203,561	194,598	196,669	198,564
S&E fields	68,170	69,333	76,876	77,886	77,149	81,880	77,834	85,578	86,461
Physical and biological sciences and mathematics and statistics	18,047	18,566	20,800	21,024	17,959	19,090	17,362	19,264	19,457
Computer sciences	3,332	3,448	3,618	3,740	3,525	3,773	3,732	4,273	4,333
Agricultural sciences	1,287	1,195	1,050	1,092	2,979	3,077	2,943	3,120	3,151
Social and behavioral sciences	30,252	30,238	35,584	35,610	37,337	39,256	37,509	41,460	41,834
Engineering	15,252	15,887	15,824	16,418	15,349	16,685	16,288	17,461	17,686
Chile									
All fields	53,286	54,901	56,659	32,093	37,286	43,815	43,710	49,105	47,035
S&E fields	16,358	16,767	18,232	10,454	10,275	11,383	11,158	12,564	12,925
Physical and biological sciences and mathematics and statistics	906	966	1,116	2,525	207	185	193	215	166
Computer sciences	1,056	1,077	1,273	20	2,860	2,904	2,866	2,636	2,379
Agricultural sciences	1,977	2,023	2,091	364	438	440	477	477	526
Social and behavioral sciences	4,666	4,961	5,209	1,626	175	210	103	112	36
Engineering	7,753	7,740	8,543	5,920	6,596	7,645	7,520	9,125	9,820
China ^a									
All fields	2,590,535	2,796,229	3,038,473	3,199,716	3,413,787	3,585,940	3,743,680	3,841,839	3,868,358
S&E fields	1,288,999	1,387,374	1,500,689	1,559,840	1,653,565	1,716,413	1,772,830	1,802,760	1,821,950
Physical and biological sciences and mathematics and statistics	269,053	279,101	294,060	248,790	255,304	255,632	257,436	257,768	255,595
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	48,442	51,148	53,789	58,752	59,796	60,908	64,499	66,641	67,537
Social and behavioral sciences	158,286	172,583	188,257	193,530	206,239	219,365	224,165	230,543	229,645
Engineering	813,218	884,542	964,583	1,058,768	1,132,226	1,180,508	1,226,730	1,247,808	1,269,173
Colombia									
All fields	120,737	132,839	153,573	161,732	167,897	178,379	192,631	208,914	226,506
S&E fields	45,132	47,036	53,355	56,577	59,894	62,529	68,613	75,783	82,551
Physical and biological sciences and mathematics and statistics	2,818	2,947	2,991	3,108	3,054	2,949	2,895	3,274	3,431
Computer sciences	6,140	6,145	7,156	7,430	7,526	7,407	7,845	7,568	7,955
Agricultural sciences	3,185	3,294	3,511	3,299	3,533	3,105	3,452	3,816	3,891
Social and behavioral sciences	12,772	13,374	15,141	15,947	16,608	18,180	19,674	22,524	25,904
Engineering	20,217	21,276	24,556	26,793	29,173	30,888	34,747	38,601	41,370
Costa Rica									
All fields	NA	NA	NA	38,487	41,546	39,937	38,324	38,096	36,049
S&E fields	NA	NA	NA	21,588	8,834	7,838	9,005	9,084	8,281
Physical and biological sciences and mathematics and statistics	NA	NA	NA	2,561	335	563	724	774	734
Computer sciences	NA	NA	NA	NA	2,020	1,766	1,903	1,981	1,869
Agricultural sciences	NA	NA	NA	476	427	274	421	539	437
Social and behavioral sciences	NA	NA	NA	15,791	2,848	2,068	2,988	2,614	2,186
Engineering	NA	NA	NA	2,760	3,204	3,167	2,969	3,176	3,055
Croatia									
All fields	NA	NA	NA	19,362	18,059	18,951	18,027	18,210	18,409
S&E fields	NA	NA	NA	6,615	6,387	6,694	6,756	7,375	7,152

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Physical and biological sciences and mathematics and statistics	NA	NA	NA	598	730	772	734	891	892
Computer sciences	NA	NA	NA	1,041	698	871	884	1,158	779
Agricultural sciences	NA	NA	NA	721	707	761	738	740	635
Social and behavioral sciences	NA	NA	NA	1,409	1,373	1,395	1,273	1,299	1,349
Engineering	NA	NA	NA	2,846	2,879	2,895	3,127	3,287	3,497
Cyprus									
All fields	2,348	NA	NA	3,374	3,589	3,564	3,521	3,538	3,098
S&E fields	787	NA	NA	1,075	1,144	1,191	1,181	1,155	1,081
Physical and biological sciences and mathematics and statistics	95	NA	NA	125	146	153	190	168	143
Computer sciences	137	NA	NA	129	147	147	132	141	129
Agricultural sciences	*	NA	NA	22	29	34	32	48	27
Social and behavioral sciences	278	NA	NA	304	312	323	367	335	364
Engineering	277	NA	NA	495	510	534	460	463	418
Czechia									
All fields	60,525	60,617	60,195	62,521	59,735	48,479	45,636	46,785	44,426
S&E fields	20,521	19,711	19,790	20,497	19,955	18,035	17,261	15,926	15,372
Physical and biological sciences and mathematics and statistics	2,971	2,841	2,845	3,052	3,722	2,389	2,339	2,035	2,144
Computer sciences	2,647	2,613	2,629	2,856	2,716	2,087	1,871	2,252	2,156
Agricultural sciences	1,948	2,076	2,284	2,211	1,818	1,605	1,639	1,536	1,501
Social and behavioral sciences	5,437	5,638	5,512	5,291	4,730	5,305	4,869	4,046	3,951
Engineering	7,518	6,543	6,520	7,087	6,969	6,649	6,543	6,057	5,620
Denmark									
All fields	33,957	34,294	34,292	37,610	41,234	42,581	45,505	43,587	44,158
S&E fields	7,963	8,408	8,578	8,697	10,416	10,798	12,791	11,461	12,412
Physical and biological sciences and mathematics and statistics	1,101	1,106	1,128	1,179	1,356	1,338	2,251	1,928	1,967
Computer sciences	847	1,086	1,119	1,277	1,537	936	1,447	1,491	1,484
Agricultural sciences	184	232	157	232	409	615	522	361	354
Social and behavioral sciences	2,686	2,482	2,576	2,313	3,031	3,519	4,480	3,625	3,732
Engineering	3,145	3,502	3,598	3,696	4,083	4,390	4,091	4,056	4,875
Estonia									
All fields	4,837	5,172	4,747	8,007	7,398	7,346	7,139	6,543	5,941
S&E fields	1,722	1,916	1,848	2,687	2,450	2,497	2,504	2,278	2,035
Physical and biological sciences and mathematics and statistics	276	313	347	523	349	381	388	303	296
Computer sciences	214	226	233	342	371	359	441	471	335
Agricultural sciences	155	198	181	178	130	132	124	122	112
Social and behavioral sciences	545	602	519	511	536	569	628	427	430
Engineering	532	577	568	1,133	1,064	1,056	923	955	862
Finland									
All fields	30,518	32,755	33,470	34,362	35,061	37,761	36,915	37,198	38,362
S&E fields	10,783	11,154	11,200	11,656	11,821	12,946	12,918	11,934	12,851
Physical and biological sciences and mathematics and statistics	891	964	877	899	929	1,212	1,125	1,179	1,168
Computer sciences	2,382	2,267	2,217	2,307	2,274	2,415	2,518	2,237	2,617
Agricultural sciences	726	726	693	716	714	818	802	807	786
Social and behavioral sciences	1,527	1,610	1,623	1,596	1,671	1,878	1,799	1,888	1,827
Engineering	5,257	5,587	5,790	6,138	6,233	6,623	6,674	5,823	6,453

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
France									
All fields	197,082	203,211	236,120	239,564	240,836	340,449	356,330	260,621	354,407
S&E fields	77,374	78,294	81,209	80,800	80,885	127,138	129,028	81,736	128,197
Physical and biological sciences and mathematics and statistics	22,478	18,586	19,296	18,721	18,694	26,993	28,292	26,228	29,734
Computer sciences	8,202	8,814	8,054	8,091	8,602	12,465	12,852	7,867	13,457
Agricultural sciences	1,289	1,320	1,161	1,155	1,076	4,455	4,061	649	4,599
Social and behavioral sciences	27,588	30,737	33,507	33,290	32,969	32,145	31,449	25,346	30,396
Engineering	17,817	18,837	19,191	19,543	19,544	51,080	52,374	21,646	50,011
Germany									
All fields	369,059	383,166	386,090	369,046	374,904	380,059	380,089	378,647	368,985
S&E fields	144,724	152,872	155,223	157,719	158,833	161,118	155,533	151,585	146,831
Physical and biological sciences and mathematics and statistics	41,441	43,267	41,630	30,014	29,826	28,210	26,050	24,270	23,448
Computer sciences	16,560	16,276	16,312	15,105	15,474	16,392	16,127	16,455	16,596
Agricultural sciences	3,836	4,396	4,266	7,165	7,195	7,261	7,067	6,985	7,033
Social and behavioral sciences	33,876	34,671	34,368	23,691	24,009	23,138	22,974	24,217	23,543
Engineering	49,011	54,262	58,647	81,744	82,330	86,117	83,316	79,658	76,211
Greece									
All fields	32,723	32,988	32,809	53,394	51,044	51,044	51,935	49,043	48,004
S&E fields	15,040	15,222	14,687	26,199	22,381	22,381	21,905	22,014	21,657
Physical and biological sciences and mathematics and statistics	3,320	3,353	3,275	3,375	3,930	3,930	3,572	3,860	3,590
Computer sciences	1,017	1,016	1,074	2,440	1,370	1,370	1,419	1,292	1,375
Agricultural sciences	986	1,079	1,143	3,039	1,660	1,660	1,294	1,384	1,468
Social and behavioral sciences	5,514	5,811	5,352	6,987	5,222	5,222	6,137	6,298	6,200
Engineering	4,203	3,963	3,843	10,358	10,199	10,199	9,483	9,180	9,024
Hungary									
All fields	41,298	36,797	37,134	37,979	39,578	41,917	40,271	35,865	36,814
S&E fields	13,338	12,686	13,109	13,597	14,355	15,489	15,271	14,117	14,083
Physical and biological sciences and mathematics and statistics	1,418	1,397	1,308	1,606	1,721	1,878	1,839	1,604	1,318
Computer sciences	1,242	1,011	958	956	935	1,099	2,135	1,991	2,184
Agricultural sciences	888	646	576	758	846	961	1,314	1,375	1,320
Social and behavioral sciences	4,553	4,200	4,267	4,376	4,326	4,277	3,630	3,210	3,443
Engineering	5,237	5,432	6,000	5,901	6,527	7,274	6,353	5,937	5,818
Iceland									
All fields	2,864	NA	2,828	2,543	NA	2,578	2,700	2,625	2,516
S&E fields	828	NA	1,060	928	NA	1,022	1,132	1,129	984
Physical and biological sciences and mathematics and statistics	122	NA	140	134	NA	129	132	122	104
Computer sciences	63	NA	87	97	NA	158	225	243	186
Agricultural sciences	14	NA	31	33	NA	37	49	45	52
Social and behavioral sciences	340	NA	483	384	NA	387	393	412	354
Engineering	289	NA	319	280	NA	311	333	307	288
India									
All fields	NA	5,469,330	6,194,887	5,926,096	6,294,907	6,331,999	6,456,386	6,419,639	6,474,715
S&E fields	NA	1,475,992	1,698,064	1,747,614	1,880,149	2,099,657	2,325,221	2,327,061	2,298,809
Physical and biological sciences and mathematics and statistics	NA	652,550	781,687	754,430	849,258	876,127	1,021,524	1,053,294	1,054,489
Computer sciences	NA	250,200	253,937	180,190	182,261	177,502	164,239	158,108	160,100

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agricultural sciences	NA	24,335	25,399	31,194	31,993	35,382	46,109	44,860	48,787
Social and behavioral sciences	NA	NA	NA	NA	NA	161,155	198,912	197,393	203,929
Engineering	NA	548,907	637,041	781,800	816,637	849,491	894,437	873,406	831,504
Indonesia									
All fields	577,985	531,943	604,435	NA	899,759	673,231	822,182	NA	NA
S&E fields	214,762	206,049	234,221	NA	270,865	217,393	NA	NA	NA
Physical and biological sciences and mathematics and statistics	23,700	22,403	25,450	NA	13,712	18,101	NA	NA	NA
Computer sciences	14,405	13,532	15,380	NA	91,191	37,342	NA	NA	NA
Agricultural sciences	39,494	37,553	42,659	NA	30,604	24,360	NA	NA	NA
Social and behavioral sciences	34,663	31,564	35,846	NA	49,685	82,806	NA	NA	NA
Engineering	102,500	100,997	114,886	NA	85,673	54,784	NA	NA	NA
Ireland									
All fields	27,084	27,443	27,368	29,391	40,856	41,072	39,939	41,258	47,411
S&E fields	7,611	7,853	10,931	7,683	12,111	14,541	14,294	14,140	16,179
Physical and biological sciences and mathematics and statistics	1,740	2,530	2,685	1,689	2,633	3,724	3,635	3,967	4,011
Computer sciences	988	530	895	953	1,993	2,587	2,822	3,024	4,281
Agricultural sciences	274	301	301	263	611	872	930	823	989
Social and behavioral sciences	1,479	1,429	3,946	1,699	1,902	2,453	2,250	2,195	2,422
Engineering	3,130	3,063	3,104	3,079	4,972	4,905	4,657	4,131	4,476
Israel									
All fields	43,744	45,611	48,627	49,567	51,761	50,688	51,856	52,045	56,274
S&E fields	20,966	22,112	22,932	23,358	23,892	23,766	23,380	23,443	22,611
Physical and biological sciences and mathematics and statistics	2,379	2,164	2,202	2,330	2,079	2,145	2,313	2,242	2,328
Computer sciences	1,907	2,040	2,197	2,418	2,513	2,467	2,680	2,999	3,351
Agricultural sciences	217	216	231	213	250	255	256	289	256
Social and behavioral sciences	11,749	12,569	12,841	12,810	13,252	13,127	12,460	12,175	10,775
Engineering	4,716	5,124	5,462	5,587	5,799	5,773	5,671	5,739	5,902
Italy									
All fields	211,770	216,509	204,675	221,907	225,599	219,037	225,115	234,263	238,792
S&E fields	84,546	84,737	72,315	82,834	85,799	87,381	83,830	86,033	92,327
Physical and biological sciences and mathematics and statistics	13,094	13,237	12,493	14,266	14,471	14,650	14,538	14,646	15,801
Computer sciences	2,778	2,420	2,223	2,247	2,240	8,537	2,483	2,578	3,085
Agricultural sciences	3,311	4,133	4,092	4,365	4,843	5,075	5,780	6,196	6,569
Social and behavioral sciences	32,644	32,118	30,231	29,354	30,631	33,120	28,858	29,394	33,336
Engineering	32,719	32,829	23,276	32,602	33,614	25,999	32,171	33,219	33,536
Japan^b									
All fields	541,428	541,428	558,692	558,853	574,005	578,990	576,012	584,071	582,020
S&E fields	321,168	325,365	319,783	316,730	173,283	180,888	178,891	173,573	172,899
Physical and biological sciences and mathematics and statistics	18,413	18,297	18,116	18,063	18,063	18,233	18,112	18,245	17,994
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	17,071	17,235	17,388	17,330	17,330	17,610	17,379	17,562	17,594
Social and behavioral sciences	196,061	199,784	196,735	195,024	51,577	59,069	58,100	50,224	49,476
Engineering	89,623	90,049	87,544	86,313	86,313	85,976	85,300	87,542	87,835
Latvia									
All fields	19,209	15,158	12,886	12,763	8,838	8,908	8,358	7,968	8,245
S&E fields	4,843	4,131	4,043	3,613	2,794	3,112	2,913	2,684	2,916

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Physical and biological sciences and mathematics and statistics	363	405	396	292	280	326	258	241	259
Computer sciences	472	455	402	386	330	364	360	340	350
Agricultural sciences	157	167	161	157	160	200	165	138	258
Social and behavioral sciences	1,986	1,665	1,560	1,117	978	1,081	1,031	961	969
Engineering	1,865	1,439	1,524	1,661	1,046	1,141	1,099	1,004	1,080
Lithuania									
All fields	34,175	33,326	33,243	30,688	25,344	24,518	22,563	20,916	20,091
S&E fields	11,630	11,139	11,276	10,777	9,394	8,965	8,443	7,773	7,698
Physical and biological sciences and mathematics and statistics	709	698	768	798	773	797	840	663	680
Computer sciences	970	824	838	676	529	442	468	579	663
Agricultural sciences	661	547	526	590	535	559	529	563	714
Social and behavioral sciences	3,025	2,992	2,977	3,167	2,948	2,813	2,472	1,889	1,595
Engineering	6,265	6,078	6,167	5,546	4,609	4,354	4,134	4,079	4,046
Luxembourg									
All fields	NA	NA	635	617	599	625	750	618	627
S&E fields	NA	NA	197	177	199	190	268	236	223
Physical and biological sciences and mathematics and statistics	NA	NA	38	15	34	19	29	30	28
Computer sciences	NA	NA	26	24	14	21	33	22	34
Agricultural sciences	NA	NA	NA	0	0	0	31	0	0
Social and behavioral sciences	NA	NA	93	92	100	107	123	131	125
Engineering	NA	NA	40	46	51	43	52	53	36
Malta									
All fields	NA	NA	NA	2,153	2,108	2,067	2,071	2,506	2,383
S&E fields	NA	NA	NA	827	840	848	769	894	947
Physical and biological sciences and mathematics and statistics	NA	NA	NA	191	163	280	120	118	138
Computer sciences	NA	NA	NA	219	221	212	135	230	222
Agricultural sciences	NA	NA	NA	0	12	2	11	14	13
Social and behavioral sciences	NA	NA	NA	256	246	227	275	312	340
Engineering	NA	NA	NA	161	198	127	228	220	234
Mexico									
All fields	372,997	402,476	425,754	450,922	467,079	486,967	580,231	605,579	624,411
S&E fields	145,971	159,873	170,472	180,755	189,782	194,886	221,456	231,571	241,291
Physical and biological sciences and mathematics and statistics	11,668	11,601	12,745	12,768	14,197	15,176	16,167	14,284	14,975
Computer sciences	12,392	12,621	12,676	12,557	11,706	9,395	10,155	33,875	32,866
Agricultural sciences	6,656	6,794	8,008	8,895	9,575	10,394	11,135	12,390	13,308
Social and behavioral sciences	43,712	44,621	46,651	46,204	46,965	48,511	58,518	60,787	61,452
Engineering	71,543	84,236	90,392	100,331	107,339	111,410	125,481	110,235	118,690
Netherlands									
All fields	89,608	92,457	100,799	92,323	93,306	98,461	99,426	103,025	104,948
S&E fields	22,605	23,649	26,736	25,987	26,714	28,257	28,577	29,174	29,753
Physical and biological sciences and mathematics and statistics	1,379	1,569	1,777	3,547	3,762	3,977	4,171	4,465	4,738
Computer sciences	3,838	3,637	3,995	2,047	2,067	2,250	2,538	2,738	3,026
Agricultural sciences	1,021	999	1,007	927	984	1,014	937	1,012	1,059
Social and behavioral sciences	9,054	9,769	11,315	11,890	12,276	13,220	13,144	12,889	12,492
Engineering	7,313	7,675	8,642	7,576	7,625	7,796	7,787	8,070	8,438

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
New Zealand									
All fields	29,201	31,995	34,485	34,756	35,178	36,728	36,520	37,208	30,002
S&E fields	9,541	10,410	11,242	11,412	11,499	12,042	12,450	12,523	10,427
Physical and biological sciences and mathematics and statistics	2,330	2,533	2,748	2,717	2,599	2,707	2,583	2,711	2,800
Computer sciences	1,295	1,268	1,466	1,544	1,815	2,186	2,476	2,468	1,671
Agricultural sciences	363	349	383	455	461	545	490	406	402
Social and behavioral sciences	3,257	3,914	4,102	4,031	3,855	3,755	3,828	3,727	3,858
Engineering	2,296	2,346	2,543	2,666	2,769	2,850	3,074	3,212	1,697
Norway									
All fields	25,863	29,094	28,387	31,573	33,297	34,110	34,290	37,758	38,963
S&E fields	6,092	6,906	6,739	8,047	8,674	8,990	8,669	10,220	10,531
Physical and biological sciences and mathematics and statistics	586	764	719	1,025	1,097	1,148	984	1,279	1,137
Computer sciences	655	854	797	962	1,121	1,122	1,194	1,448	1,590
Agricultural sciences	105	110	106	187	198	240	233	266	292
Social and behavioral sciences	2,747	3,095	2,856	2,768	3,095	3,019	2,907	3,191	3,460
Engineering	1,999	2,083	2,261	3,105	3,163	3,461	3,351	4,036	4,052
Poland									
All fields	391,830	423,200	420,099	282,071	256,910	238,225	218,759	222,746	196,266
S&E fields	111,317	121,906	120,656	103,833	96,989	95,076	92,830	92,795	79,725
Physical and biological sciences and mathematics and statistics	12,451	12,419	13,203	11,772	10,534	10,151	9,446	8,593	7,275
Computer sciences	12,810	13,058	12,957	9,534	8,636	8,785	8,756	9,361	9,074
Agricultural sciences	6,164	5,700	5,063	4,562	4,037	4,103	3,805	4,445	4,200
Social and behavioral sciences	44,304	45,877	42,172	34,509	29,672	26,259	26,060	26,133	21,883
Engineering	35,588	44,852	47,261	43,456	44,110	45,778	44,763	44,263	37,293
Portugal									
All fields	51,191	51,484	50,965	59,168	55,424	55,360	54,991	55,666	57,269
S&E fields	18,988	19,116	19,353	24,450	22,685	23,102	23,605	23,570	23,742
Physical and biological sciences and mathematics and statistics	2,128	2,223	2,392	2,731	2,765	2,866	2,979	2,979	3,056
Computer sciences	769	778	702	782	658	576	557	653	743
Agricultural sciences	815	867	676	1,068	1,052	1,157	1,185	1,180	1,291
Social and behavioral sciences	5,890	5,776	5,993	6,410	6,002	6,119	6,059	6,066	6,606
Engineering	9,386	9,472	9,590	13,459	12,208	12,384	12,825	12,692	12,046
Romania									
All fields	NA	NA	NA	97,661	82,850	76,780	72,147	71,125	73,430
S&E fields	NA	NA	NA	45,300	39,795	33,530	32,089	32,343	33,454
Physical and biological sciences and mathematics and statistics	NA	NA	NA	3,923	3,772	4,558	4,192	3,829	3,975
Computer sciences	NA	NA	NA	1,543	1,455	4,855	4,333	4,891	5,414
Agricultural sciences	NA	NA	NA	1,661	1,418	3,234	2,966	3,248	3,226
Social and behavioral sciences	NA	NA	NA	15,002	13,043	7,246	6,846	6,374	7,511
Engineering	NA	NA	NA	23,171	20,107	13,637	13,752	14,001	13,328
Russia									
All fields	1,442,317	1,441,533	1,406,050	129,375	1,234,449	1,150,775	1,223,070	1,078,609	831,676
S&E fields	463,356	445,876	429,052	67,013	473,720	407,487	527,757	482,510	391,474
Physical and biological sciences and mathematics and statistics	34,475	23,627	22,913	5,066	21,648	27,939	36,641	29,976	26,180
Computer sciences	68,668	67,765	63,072	8,342	48,064	46,443	56,036	43,654	38,026

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agricultural sciences	21,184	20,292	21,093	957	19,495	17,961	17,929	16,773	14,271
Social and behavioral sciences	90,903	94,145	92,818	33,439	165,999	96,085	159,441	172,580	143,738
Engineering	248,126	240,047	229,156	19,209	218,514	219,059	257,710	219,527	169,259
Saudi Arabia									
All fields	NA	85,105	90,562	96,380	130,577	130,577	154,596	NA	NA
S&E fields	NA	28,540	32,860	5,544	41,389	41,389	48,916	NA	NA
Physical and biological sciences and mathematics and statistics	NA	12,261	13,685	NA	15,264	15,264	16,916	NA	NA
Computer sciences	NA	3,967	4,919	NA	5,663	5,663	7,176	NA	NA
Agricultural sciences	NA	220	281	395	320	320	387	NA	NA
Social and behavioral sciences	NA	8,675	9,929	NA	14,195	14,195	17,596	NA	NA
Engineering	NA	3,417	4,046	5,149	5,947	5,947	6,841	NA	NA
Slovakia									
All fields	42,027	38,602	36,263	34,478	32,354	29,346	26,933	24,001	22,191
S&E fields	12,459	11,384	10,932	11,839	11,034	10,153	9,457	8,172	7,543
Physical and biological sciences and mathematics and statistics	1,751	1,596	1,407	1,784	1,607	1,551	1,442	1,243	1,103
Computer sciences	1,487	1,364	1,261	970	971	1,054	992	951	967
Agricultural sciences	779	644	667	765	682	644	716	638	630
Social and behavioral sciences	3,421	3,262	3,332	4,124	3,931	3,443	3,223	2,756	2,443
Engineering	5,021	4,518	4,265	4,196	3,843	3,461	3,084	2,584	2,400
Slovenia									
All fields	9,616	10,255	14,686	13,918	13,181	12,545	21,244	9,621	9,441
S&E fields	3,506	4,011	5,997	5,608	5,284	4,911	8,186	3,694	3,678
Physical and biological sciences and mathematics and statistics	405	545	741	814	759	690	837	615	621
Computer sciences	188	305	531	498	551	402	660	337	326
Agricultural sciences	295	305	374	314	277	261	565	228	266
Social and behavioral sciences	1,296	1,324	2,058	1,794	1,697	1,613	2,484	1,066	955
Engineering	1,322	1,532	2,293	2,188	2,000	1,945	3,640	1,449	1,511
South Africa									
All fields	57,188	61,194	64,547	72,762	85,203	92,321	NA	NA	NA
S&E fields	21,625	22,497	23,458	8,718	32,208	35,944	NA	NA	NA
Physical and biological sciences and mathematics and statistics	3,748	5,163	5,714	NA	7,600	8,060	NA	NA	NA
Computer sciences	1,751	1,873	1,693	NA	2,670	2,746	NA	NA	NA
Agricultural sciences	1,101	1,123	1,360	1,639	1,676	1,809	NA	NA	NA
Social and behavioral sciences	9,498	8,623	8,626	NA	13,156	15,258	NA	NA	NA
Engineering	5,527	5,715	6,065	7,079	7,106	8,071	NA	NA	NA
South Korea									
All fields	311,175	325,695	330,104	325,113	329,444	350,706	359,288	359,862	347,179
S&E fields	128,716	135,254	134,600	130,533	130,648	141,363	146,438	145,567	139,111
Physical and biological sciences and mathematics and statistics	23,701	24,522	23,776	19,184	20,102	25,682	26,456	21,325	20,227
Computer sciences	7,562	7,774	7,397	15,818	15,456	7,450	7,837	17,172	16,841
Agricultural sciences	3,283	3,162	3,132	4,727	4,929	3,039	3,047	5,445	5,330
Social and behavioral sciences	20,814	22,439	23,319	23,334	23,424	25,203	26,731	26,239	24,791
Engineering	73,356	77,357	76,976	67,470	66,737	79,989	82,367	75,386	71,922
Spain									
All fields	197,890	220,221	208,961	216,903	235,672	225,531	203,253	198,568	195,382
S&E fields	68,021	77,137	75,110	81,704	83,052	83,145	71,040	68,837	62,383

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Physical and biological sciences and mathematics and statistics	7,575	8,988	9,545	12,014	12,233	12,853	11,277	11,525	11,480
Computer sciences	8,831	7,407	7,768	7,179	6,859	6,374	5,196	5,144	4,423
Agricultural sciences	4,122	3,587	3,741	4,196	4,033	3,313	3,255	3,533	2,683
Social and behavioral sciences	16,358	16,303	18,195	20,842	21,241	19,466	18,728	18,814	19,062
Engineering	31,135	40,852	35,861	37,473	38,686	41,139	32,584	29,821	24,735
Sweden									
All fields	40,702	46,018	43,113	34,016	36,176	36,471	50,796	46,736	47,881
S&E fields	14,044	15,519	16,114	11,222	12,408	12,886	19,241	17,265	17,367
Physical and biological sciences and mathematics and statistics	1,455	1,499	1,319	901	1,061	1,243	1,456	1,288	1,180
Computer sciences	803	988	1,084	1,062	1,273	1,338	1,450	1,426	1,490
Agricultural sciences	246	278	344	119	145	167	297	333	296
Social and behavioral sciences	4,812	5,520	6,142	5,603	5,975	6,152	7,256	6,083	6,132
Engineering	6,728	7,234	7,225	3,537	3,954	3,986	8,782	8,135	8,269
Switzerland									
All fields	47,286	47,780	48,408	50,083	52,433	53,798	53,378	54,548	55,268
S&E fields	14,306	14,926	15,109	15,914	16,205	17,106	17,371	17,381	17,835
Physical and biological sciences and mathematics and statistics	1,936	2,032	2,177	2,290	2,208	2,324	2,288	2,313	2,528
Computer sciences	1,312	1,288	1,281	1,394	1,368	1,543	1,593	1,647	1,711
Agricultural sciences	908	889	760	939	770	838	856	782	895
Social and behavioral sciences	3,045	3,275	3,111	3,123	3,030	3,178	3,191	3,019	3,022
Engineering	7,105	7,442	7,780	8,168	8,829	9,223	9,443	9,620	9,679
Taiwan									
All fields	227,174	228,878	232,448	226,799	228,762	229,546	232,417	228,793	231,003
S&E fields	94,431	94,128	94,607	90,467	89,067	87,291	86,352	85,448	85,718
Physical and biological sciences and mathematics and statistics	10,387	10,289	10,662	10,396	9,836	9,568	9,917	11,364	11,187
Computer sciences	14,489	14,012	14,447	13,884	13,694	13,691	12,959	16,025	16,849
Agricultural sciences	4,414	4,679	4,779	5,002	5,006	4,723	4,949	2,772	2,718
Social and behavioral sciences	12,676	13,069	12,830	12,670	12,533	12,380	13,140	10,134	10,418
Engineering	52,465	52,079	51,889	48,515	47,998	46,929	45,387	45,153	44,546
Turkey									
All fields	289,013	284,459	329,175	340,396	399,049	458,564	437,446	454,207	454,995
S&E fields	110,119	85,489	99,812	101,214	128,672	139,684	146,128	149,730	149,986
Physical and biological sciences and mathematics and statistics	18,035	22,568	26,876	26,876	28,154	24,464	18,826	16,277	14,575
Computer sciences	3,057	3,037	3,379	3,379	917	1,118	665	810	918
Agricultural sciences	6,016	5,772	5,612	7,014	8,050	7,498	7,501	7,301	7,075
Social and behavioral sciences	57,485	28,423	34,618	34,618	47,834	54,652	59,999	59,758	57,958
Engineering	25,526	25,689	29,327	29,327	43,717	51,952	59,137	65,584	69,460
United Kingdom									
All fields	350,179	367,875	389,296	402,682	444,152	394,636	394,636	399,718	405,105
S&E fields	135,845	143,176	150,787	160,363	180,340	165,792	165,792	169,832	179,823
Physical and biological sciences and mathematics and statistics	39,140	41,731	44,119	63,771	72,818	64,498	64,498	66,964	70,889
Computer sciences	14,202	14,335	15,089	15,497	17,843	15,567	15,567	15,275	17,513
Agricultural sciences	3,039	3,375	3,474	3,621	4,011	3,783	3,783	3,844	3,598
Social and behavioral sciences	47,551	50,648	54,343	43,021	48,579	48,626	48,626	50,821	53,469
Engineering	31,914	33,087	33,762	34,453	37,089	33,319	33,319	32,928	34,353

Table SHED-11

S&E first university degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
United States									
All fields	1,652,104	1,717,291	1,794,282	1,842,617	1,872,052	1,897,211	1,922,705	1,958,757	1,987,274
S&E fields	624,289	653,341	687,221	712,383	733,698	751,195	768,291	790,324	811,195
Physical and biological sciences and mathematics and statistics	138,824	146,798	158,524	168,027	174,909	181,792	187,463	193,137	198,064
Computer sciences	44,468	47,960	52,430	56,047	60,365	64,836	69,435	76,720	85,189
Agricultural sciences	16,545	17,065	17,588	18,382	19,486	20,461	20,846	21,152	21,630
Social and behavioral sciences	326,215	339,341	351,197	358,268	361,964	361,183	359,261	358,592	358,600
Engineering	98,237	102,177	107,482	111,659	116,974	122,923	131,286	140,723	147,712

NA = not available.

^a China data include computer sciences under engineering.^b 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 also 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 vary slightly from the National Center for Science and Engineering Statistics 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; National Bureau of Statistics of China, *China Statistical Yearbook* (various years); People's Republic of China, Ministry of Education data (various years); Ministry of Education, *Educational Statistics of the Republic of China (Taiwan)* (various years); Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education (various years); Government of India, Ministry of Human Resource Development, Department of Higher Education, All India Survey on Higher Education (various years).

Science and Engineering Indicators

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Argentina									
All fields	937	1,518	1,674	2,088	2,088	2,406	NA	NA	NA
All S&E	709	1,122	1,203	1,726	1,726	1,716	NA	NA	NA
Physical and biological sciences and mathematics and statistics	372	590	709	934	934	904	NA	NA	NA
Computer sciences	68	83	19	NA	NA	28	NA	NA	NA
Agricultural sciences	60	106	82	87	87	99	NA	NA	NA
Social and behavioral sciences	141	221	305	551	551	527	NA	NA	NA
Engineering	68	122	88	154	154	158	NA	NA	NA
Australia									
All fields	6,398	6,849	7,166	8,101	8,400	8,627	9,089	9,242	8,777
All S&E	3,665	3,975	4,193	4,576	4,865	5,011	5,285	5,507	5,332
Physical and biological sciences and mathematics and statistics	1,306	1,495	1,512	1,621	1,668	1,900	1,988	2,117	2,094
Computer sciences	231	248	262	315	311	327	346	351	368
Agricultural sciences	281	280	326	306	300	353	406	390	319
Social and behavioral sciences	891	968	927	998	1,088	1,040	1,043	1,080	962
Engineering	956	984	1,166	1,336	1,498	1,391	1,502	1,569	1,589
Austria									
All fields	2,484	2,345	2,398	2,228	2,207	2,189	2,239	2,628	2,779
All S&E	1,377	1,363	1,410	1,332	1,305	1,243	1,316	1,429	1,484
Physical and biological sciences and mathematics and statistics	461	453	436	505	427	431	440	446	504
Computer sciences	129	96	139	112	114	113	113	109	102
Agricultural sciences	96	93	80	71	56	67	70	96	70
Social and behavioral sciences	229	260	270	223	209	166	158	251	299
Engineering	463	461	486	421	501	467	537	528	510
Belgium									
All fields	2,125	2,165	2,373	2,464	2,581	2,800	2,890	2,918	3,051
All S&E	1,280	1,313	1,433	1,546	1,575	1,677	1,662	1,423	1,745
Physical and biological sciences and mathematics and statistics	421	438	464	455	504	804	590	602	670
Computer sciences	54	58	55	67	64	2	16	14	16
Agricultural sciences	111	105	115	133	135	73	86	82	66
Social and behavioral sciences	193	205	238	264	266	273	303	320	304
Engineering	501	507	561	627	606	525	667	405	689
Brazil									
All fields	11,314	12,321	13,912	NA	16,745	18,625	20,605	21,609	22,927
All S&E	NA	NA	NA	NA	9,124	9,414	10,469	10,752	11,365
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	2,798	2,899	3,143	3,284	3,413
Computer sciences	NA	NA	NA	NA	224	289	332	410	346
Agricultural sciences	NA	NA	NA	NA	1,941	2,116	2,389	2,356	2,559
Social and behavioral sciences	NA	NA	NA	NA	1,302	1,396	1,544	1,620	1,720
Engineering	NA	NA	NA	NA	2,859	2,714	3,061	3,082	3,327
Bulgaria									
All fields	596	NA	NA	1,202	1,363	1,442	1,464	1,423	1,365
All S&E	313	NA	NA	561	692	710	634	707	621
Physical and biological sciences and mathematics and statistics	84	NA	NA	140	174	191	176	215	171
Computer sciences	7	NA	NA	25	33	36	18	39	27

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agricultural sciences	20	NA	NA	37	47	61	43	44	34
Social and behavioral sciences	66	NA	NA	135	177	167	162	216	236
Engineering	136	NA	NA	224	261	255	235	193	153
Canada									
All fields	5,673	5,906	6,396	7,059	7,190	7,546	7,768	8,003	8,247
All S&E	4,089	4,346	4,694	5,187	5,075	5,325	5,556	5,719	5,888
Physical and biological sciences and mathematics and statistics	1,756	1,925	2,081	2,299	1,947	2,043	2,083	2,065	2,127
Computer sciences	227	238	255	283	259	272	251	273	280
Agricultural sciences	164	157	170	188	203	213	248	290	299
Social and behavioral sciences	818	855	935	1,027	1,215	1,276	1,341	1,406	1,454
Engineering	1,124	1,171	1,253	1,391	1,451	1,522	1,632	1,685	1,728
Chile									
All fields	423	461	540	593	606	670	699	697	807
All S&E	330	343	399	436	408	469	495	478	571
Physical and biological sciences and mathematics and statistics	223	198	231	215	205	254	278	255	289
Computer sciences	2	6	4	22	9	11	13	12	11
Agricultural sciences	29	34	44	50	46	53	58	52	68
Social and behavioral sciences	21	29	30	32	53	48	50	73	102
Engineering	55	76	90	117	96	103	96	87	101
China ^a									
All fields	48,987	50,289	51,713	53,139	53,653	53,778	55,011	58,032	60,724
All S&E	31,410	32,208	32,331	33,490	34,103	34,440	35,147	37,506	39,768
Physical and biological sciences and mathematics and statistics	9,638	9,881	9,762	10,396	10,922	10,978	11,589	12,208	12,831
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	1,973	2,241	2,365	2,435	2,382	2,549	2,445	2,654	2,762
Social and behavioral sciences	2,371	2,383	2,314	2,328	2,262	2,184	2,046	2,152	2,142
Engineering	17,428	17,703	17,890	18,331	18,537	18,729	19,067	20,492	22,033
Colombia									
All fields	NA	NA	258	330	408	466	600	770	803
All S&E	NA	NA	175	206	262	300	395	472	491
Physical and biological sciences and mathematics and statistics	NA	NA	80	83	90	106	139	157	160
Computer sciences	NA	NA	0	13	9	15	17	20	19
Agricultural sciences	NA	NA	21	17	34	33	40	34	37
Social and behavioral sciences	NA	NA	4	31	41	59	63	95	92
Engineering	NA	NA	70	62	88	87	136	166	183
Costa Rica									
All fields	NA	NA	NA	103	82	106	140	108	89
All S&E	NA	NA	NA	36	11	14	23	21	20
Physical and biological sciences and mathematics and statistics	NA	NA	NA	10	6	9	10	12	7
Computer sciences	NA	NA	NA	NA	0	0	2	0	4
Agricultural sciences	NA	NA	NA	0	1	0	2	1	0
Social and behavioral sciences	NA	NA	NA	26	4	5	9	8	8
Engineering	NA	NA	NA	0	0	0	0	0	1
Croatia									
All fields	NA	NA	NA	830	855	878	646	716	647
All S&E	NA	NA	NA	430	563	491	302	357	322

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Physical and biological sciences and mathematics and statistics	NA	NA	NA	108	155	166	84	120	108
Computer sciences	NA	NA	NA	24	29	11	23	7	15
Agricultural sciences	NA	NA	NA	59	50	64	35	39	29
Social and behavioral sciences	NA	NA	NA	104	186	105	68	78	71
Engineering	NA	NA	NA	135	143	145	92	113	99
Cyprus									
All fields	30	NA	NA	52	60	77	99	92	120
All S&E	17	NA	NA	35	37	47	63	53	66
Physical and biological sciences and mathematics and statistics	6	NA	NA	13	14	14	25	12	12
Computer sciences	6	NA	NA	4	4	2	4	8	8
Agricultural sciences	0	NA	NA	1	0	3	0	4	3
Social and behavioral sciences	2	NA	NA	4	6	10	15	14	21
Engineering	3	NA	NA	13	13	18	19	15	22
Czechia									
All fields	2,229	2,462	2,683	2,433	2,484	2,440	2,379	2,435	2,409
All S&E	1,413	1,564	1,672	1,515	1,551	1,452	1,408	1,503	1,502
Physical and biological sciences and mathematics and statistics	586	623	621	585	613	543	529	573	561
Computer sciences	75	81	97	101	79	76	86	77	74
Agricultural sciences	132	165	183	150	150	117	119	109	102
Social and behavioral sciences	132	188	187	166	153	145	158	170	176
Engineering	488	507	584	513	556	571	516	574	589
Denmark									
All fields	1,428	1,569	1,640	1,888	2,126	2,176	2,198	2,232	2,094
All S&E	831	967	1,033	1,224	1,289	1,354	1,385	1,329	1,252
Physical and biological sciences and mathematics and statistics	269	283	303	335	373	397	379	388	321
Computer sciences	0	0	0	0	0	0	0	0	0
Agricultural sciences	76	112	138	210	230	211	167	139	171
Social and behavioral sciences	171	201	176	197	213	228	282	275	219
Engineering	315	371	416	482	473	518	557	527	541
Estonia									
All fields	175	250	190	233	213	208	239	253	244
All S&E	112	167	142	148	151	143	165	184	164
Physical and biological sciences and mathematics and statistics	56	74	62	68	71	64	72	84	62
Computer sciences	12	17	14	13	9	16	16	19	29
Agricultural sciences	6	6	9	8	12	7	11	13	7
Social and behavioral sciences	11	36	22	18	23	18	21	33	15
Engineering	27	34	35	41	36	38	45	35	51
Finland									
All fields	1,748	1,843	1,828	1,899	2,013	2,000	2,009	1,853	1,865
All S&E	983	1,034	1,006	1,104	1,145	1,170	1,164	1,047	1,063
Physical and biological sciences and mathematics and statistics	308	323	311	315	339	355	364	308	294
Computer sciences	119	147	137	155	166	152	156	133	145
Agricultural sciences	38	57	47	55	62	77	73	58	55
Social and behavioral sciences	214	229	212	222	222	206	220	216	207
Engineering	304	278	299	357	356	380	351	332	362

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
France									
All fields	12,666	13,188	13,278	13,419	13,729	13,774	13,016	13,583	13,729
All S&E	9,025	9,466	9,692	9,731	10,023	10,020	9,564	9,755	8,987
Physical and biological sciences and mathematics and statistics	5,336	5,488	5,726	5,805	5,731	5,848	5,788	5,813	4,723
Computer sciences	659	697	672	698	736	778	630	729	709
Agricultural sciences	0	0	0	0	0	0	0	0	155
Social and behavioral sciences	1,457	1,453	1,480	1,433	1,684	1,493	1,389	1,289	1,419
Engineering	1,573	1,828	1,814	1,795	1,872	1,901	1,757	1,924	1,981
Germany									
All fields	26,039	27,354	27,099	27,707	28,147	29,218	29,303	28,404	27,838
All S&E	12,576	13,281	13,666	14,936	14,912	15,957	15,871	15,761	15,061
Physical and biological sciences and mathematics and statistics	6,816	7,127	7,385	8,276	8,140	8,476	8,382	8,252	8,084
Computer sciences	838	906	886	941	994	1,103	1,021	973	873
Agricultural sciences	880	902	925	803	834	899	898	986	821
Social and behavioral sciences	1,528	1,562	1,658	1,769	1,730	1,736	1,860	1,790	1,672
Engineering	2,514	2,784	2,812	3,147	3,214	3,743	3,710	3,760	3,611
Greece									
All fields	1,898	1,696	1,734	1,527	1,794	1,794	2,003	1,877	1,558
All S&E	1,070	900	745	834	786	786	894	933	683
Physical and biological sciences and mathematics and statistics	278	244	221	221	223	223	221	254	206
Computer sciences	133	85	70	95	58	58	71	83	46
Agricultural sciences	159	80	79	88	51	51	57	42	47
Social and behavioral sciences	139	137	95	149	106	106	187	122	111
Engineering	361	354	280	281	348	348	358	432	273
Hungary									
All fields	1,275	1,234	1,242	1,069	1,154	1,206	1,255	1,177	1,287
All S&E	643	533	569	604	659	589	609	545	608
Physical and biological sciences and mathematics and statistics	345	254	257	249	236	240	233	240	255
Computer sciences	51	31	36	52	66	55	44	36	47
Agricultural sciences	84	83	97	57	67	32	67	36	52
Social and behavioral sciences	63	93	80	150	162	136	161	146	137
Engineering	100	72	99	96	128	126	104	87	117
Iceland									
All fields	36	NA	40	55	88	67	72	64	61
All S&E	26	NA	19	29	41	36	33	32	32
Physical and biological sciences and mathematics and statistics	17	NA	12	19	23	25	19	22	17
Computer sciences	2	NA	2	2	3	1	1	0	2
Agricultural sciences	1	NA	0	0	2	0	1	0	0
Social and behavioral sciences	0	NA	2	5	6	3	3	6	10
Engineering	6	NA	3	3	7	7	9	4	3
India									
All fields	NA	21,544	23,630	23,861	21,830	24,171	28,779	34,400	40,813
All S&E	NA	14,191	15,132	15,500	13,616	15,780	17,905	23,246	26,890
Physical and biological sciences and mathematics and statistics	NA	5,442	4,381	5,910	5,721	6,678	8,089	8,914	10,055
Computer sciences	NA	240	291	491	321	487	383	382	499

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agricultural sciences	NA	1,997	3,422	2,627	1,867	2,353	2,246	4,763	5,154
Social and behavioral sciences	NA	4,431	4,852	3,889	3,110	3,477	3,821	4,280	4,022
Engineering	NA	2,081	2,186	2,583	2,597	2,785	3,366	4,907	7,160
Indonesia									
All fields	2,260	3,911	4,104	NA	3,591	5,363	3,838	NA	NA
All S&E	NA	NA	NA	NA	930	1,309	NA	NA	NA
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	170	95	NA	NA	NA
Computer sciences	NA	NA	NA	NA	46	25	NA	NA	NA
Agricultural sciences	NA	NA	NA	NA	410	357	NA	NA	NA
Social and behavioral sciences	NA	NA	NA	NA	0	676	NA	NA	NA
Engineering	NA	NA	NA	NA	304	156	NA	NA	NA
Ireland									
All fields	1,222	1,447	1,448	1,532	1,738	1,749	1,429	1,445	1,466
All S&E	714	802	846	849	833	1,069	856	833	822
Physical and biological sciences and mathematics and statistics	323	369	384	385	423	502	369	322	356
Computer sciences	71	83	128	76	106	85	86	56	61
Agricultural sciences	37	15	15	40	20	32	23	32	39
Social and behavioral sciences	86	120	111	130	127	222	180	203	181
Engineering	197	215	208	218	157	228	198	220	185
Israel									
All fields	1,534	1,536	1,586	1,541	1,546	1,617	1,570	1,618	1,570
All S&E	1,009	1,048	1,056	1,040	1,113	1,203	1,151	1,150	982
Physical and biological sciences and mathematics and statistics	572	614	608	617	707	739	680	644	526
Computer sciences	76	62	61	57	63	74	62	95	72
Agricultural sciences	27	31	25	36	25	40	23	28	26
Social and behavioral sciences	206	195	219	190	183	203	210	200	182
Engineering	128	146	143	140	135	147	176	183	176
Italy									
All fields	NA	11,270	11,458	10,687	10,678	10,485	9,803	9,399	7,974
All S&E	NA	6,409	6,294	6,131	6,185	5,976	5,656	5,531	4,758
Physical and biological sciences and mathematics and statistics	NA	2,531	2,569	2,502	2,571	2,569	2,346	2,173	1,882
Computer sciences	NA	140	124	135	134	664	477	225	188
Agricultural sciences	NA	684	688	650	619	622	499	513	382
Social and behavioral sciences	NA	971	877	810	808	523	538	599	520
Engineering	NA	2,083	2,036	2,034	2,053	1,598	1,796	2,021	1,786
Japan ^b									
All fields	16,760	15,911	15,902	15,427	16,471	15,714	15,804	15,674	15,690
All S&E	7,470	7,100	7,100	6,791	7,357	7,540	7,391	6,745	6,754
Physical and biological sciences and mathematics and statistics	1,534	1,436	1,394	1,423	2,207	2,359	2,316	2,090	2,090
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	1,233	1,046	1,059	1,062	1,000	911	881	909	899
Social and behavioral sciences	1,010	1,019	1,011	850	481	776	754	422	415
Engineering	3,693	3,599	3,636	3,456	3,669	3,494	3,440	3,324	3,350
Latvia									
All fields	132	297	267	315	264	255	197	151	123
All S&E	78	154	158	173	164	146	116	77	80

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Physical and biological sciences and mathematics and statistics	16	64	38	51	34	54	45	19	33
Computer sciences	4	10	15	17	12	9	8	7	4
Agricultural sciences	10	12	5	10	9	1	6	4	7
Social and behavioral sciences	18	27	40	30	37	28	23	17	13
Engineering	30	41	60	65	72	54	34	30	23
Lithuania									
All fields	406	353	398	441	411	417	324	329	349
All S&E	254	219	266	281	262	246	187	214	214
Physical and biological sciences and mathematics and statistics	75	63	72	64	84	92	62	83	83
Computer sciences	11	11	4	13	11	8	6	8	6
Agricultural sciences	16	31	29	21	23	16	18	16	25
Social and behavioral sciences	71	53	71	62	47	45	44	32	36
Engineering	81	61	90	121	97	85	57	75	64
Luxembourg									
All fields	NA	NA	57	64	82	107	107	152	135
All S&E	NA	NA	41	45	55	74	78	109	107
Physical and biological sciences and mathematics and statistics	NA	NA	17	12	17	24	26	35	46
Computer sciences	NA	NA	12	13	16	28	19	34	24
Agricultural sciences	NA	NA	0	0	0	0	0	0	0
Social and behavioral sciences	NA	NA	5	11	14	15	19	23	19
Engineering	NA	NA	7	9	8	7	14	17	18
Malta									
All fields	NA	NA	NA	24	22	30	45	54	53
All S&E	NA	NA	NA	12	13	15	19	20	17
Physical and biological sciences and mathematics and statistics	NA	NA	NA	2	4	6	10	8	8
Computer sciences	NA	NA	NA	1	0	0	1	1	2
Agricultural sciences	NA	NA	NA	0	0	0	0	0	0
Social and behavioral sciences	NA	NA	NA	3	0	3	2	3	5
Engineering	NA	NA	NA	6	9	6	6	8	2
Mexico									
All fields	4,167	3,795	5,119	5,013	5,782	6,050	9,268	9,310	10,486
All S&E	2,015	1,672	2,223	2,213	2,365	2,560	2,654	2,874	3,180
Physical and biological sciences and mathematics and statistics	890	608	756	720	753	758	792	968	1,227
Computer sciences	26	22	30	47	65	64	65	127	98
Agricultural sciences	104	101	218	133	148	183	233	224	219
Social and behavioral sciences	588	534	617	680	617	672	848	855	973
Engineering	407	407	602	633	782	883	716	700	663
Netherlands									
All fields	3,736	3,715	4,040	4,321	4,528	4,663	NA	4,747	4,781
All S&E	946	949	1,232	1,730	1,790	NA	NA	2,221	2,197
Physical and biological sciences and mathematics and statistics	NA	NA	NA	642	626	NA	NA	760	800
Computer sciences	NA	NA	NA	NA	NA	NA	NA	115	102
Agricultural sciences	237	230	213	280	340	NA	NA	325	314
Social and behavioral sciences	NA	NA	NA	NA	NA	NA	NA	486	421
Engineering	709	719	1,019	808	824	NA	NA	535	560

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
New Zealand									
All fields	1,005	1,106	1,053	1,288	1,414	1,332	1,296	1,483	1,413
All S&E	613	655	642	819	907	851	804	897	873
Physical and biological sciences and mathematics and statistics	287	264	300	353	358	363	348	355	346
Computer sciences	59	49	49	63	70	58	52	59	57
Agricultural sciences	26	41	23	37	77	33	39	56	42
Social and behavioral sciences	135	173	132	188	172	180	180	211	195
Engineering	107	129	138	178	231	218	185	216	233
Norway									
All fields	1,202	1,298	1,408	1,549	1,442	1,407	1,368	1,489	1,500
All S&E	507	129	148	850	776	734	732	764	780
Physical and biological sciences and mathematics and statistics	NA	NA	NA	454	393	389	376	404	411
Computer sciences	432	NA	NA	39	28	23	26	29	24
Agricultural sciences	14	22	20	21	33	21	16	20	22
Social and behavioral sciences	55	100	119	174	166	176	168	165	169
Engineering	6	7	9	162	156	125	146	146	154
Poland									
All fields	3,317	3,055	3,590	3,719	3,376	3,787	3,764	3,196	3,657
All S&E	NA	NA	NA	NA	1,811	2,051	2,017	1,701	1,856
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	734	850	808	712	756
Computer sciences	NA	NA	NA	NA	10	82	59	48	59
Agricultural sciences	NA	NA	NA	NA	227	182	183	136	172
Social and behavioral sciences	NA	NA	NA	NA	279	361	382	302	365
Engineering	NA	NA	NA	NA	561	576	585	503	504
Portugal									
All fields	1,414	1,608	1,859	2,463	2,503	2,351	2,344	2,135	2,266
All S&E	882	1,054	1,119	1,491	1,441	1,294	1,329	1,177	1,237
Physical and biological sciences and mathematics and statistics	330	386	430	508	467	357	430	385	393
Computer sciences	27	32	44	60	88	88	72	72	76
Agricultural sciences	34	36	29	39	37	43	42	39	40
Social and behavioral sciences	194	189	257	360	358	315	286	264	293
Engineering	297	411	359	524	491	491	499	417	435
Romania									
All fields	NA	NA	NA	5,370	3,777	3,992	2,260	1,888	1,843
All S&E	NA	NA	NA	2,756	1,982	2,038	1,070	839	811
Physical and biological sciences and mathematics and statistics	NA	NA	NA	517	350	340	237	156	155
Computer sciences	NA	NA	NA	0	0	103	53	38	61
Agricultural sciences	NA	NA	NA	390	231	328	134	92	100
Social and behavioral sciences	NA	NA	NA	431	337	361	229	205	169
Engineering	NA	NA	NA	1,418	1,064	906	417	348	326
Russia									
All fields	33,203	32,718	34,403	36,533	44,128	29,632	27,212	27,338	18,322
All S&E	21,436	16,763	NA	19,340	24,522	18,502	14,376	15,465	10,410
Physical and biological sciences and mathematics and statistics	5,684	5,718	NA	6,055	5,762	4,590	3,781	4,581	3,085
Computer sciences	2,050	1,498	NA	3,015	2,504	2,033	1,860	1,913	839

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agricultural sciences	1,359	1,547	NA	1,223	2,971	1,064	1,045	1,003	861
Social and behavioral sciences	7,457	3,160	NA	3,371	6,989	5,267	2,468	2,294	2,770
Engineering	4,886	4,840	NA	5,676	6,296	5,548	5,222	5,674	2,855
Saudi Arabia									
All fields	NA	391	557	400	NA	NA	247	NA	NA
All S&E	NA	95	112	21	68	68	65	NA	NA
Physical and biological sciences and mathematics and statistics	NA	52	58	NA	33	33	32	NA	NA
Computer sciences	NA	0	1	NA	NA	NA	8	NA	NA
Agricultural sciences	NA	0	1	4	18	18	3	NA	NA
Social and behavioral sciences	NA	31	38	NA	12	12	13	NA	NA
Engineering	NA	12	14	17	5	5	9	NA	NA
Slovakia									
All fields	2,878	1,672	2,181	2,119	2,182	1,914	1,771	1,660	1,408
All S&E	1,386	814	1,115	1,152	1,148	1,005	911	825	711
Physical and biological sciences and mathematics and statistics	408	192	257	350	372	318	302	281	265
Computer sciences	61	45	32	57	55	56	57	33	34
Agricultural sciences	131	70	81	67	86	47	70	48	46
Social and behavioral sciences	210	97	179	177	211	192	165	162	125
Engineering	576	410	566	501	424	392	317	301	241
Slovenia									
All fields	1,248	1,239	1,158	1,166	1,003	1,000	3,763	514	461
All S&E	659	593	677	742	662	625	1,602	235	211
Physical and biological sciences and mathematics and statistics	185	92	146	221	203	168	258	68	65
Computer sciences	35	43	68	44	36	44	188	17	28
Agricultural sciences	26	33	105	110	110	117	117	2	1
Social and behavioral sciences	194	204	194	141	133	108	562	23	16
Engineering	219	221	164	226	180	188	477	125	101
South Africa									
All fields	1,381	1,422	1,586	1,845	2,270	2,536	NA	NA	NA
All S&E	714	784	886	242	1,175	1,313	NA	NA	NA
Physical and biological sciences and mathematics and statistics	331	409	444	NA	572	616	NA	NA	NA
Computer sciences	24	30	42	NA	55	51	NA	NA	NA
Agricultural sciences	76	71	93	90	79	121	NA	NA	NA
Social and behavioral sciences	178	163	174	NA	293	304	NA	NA	NA
Engineering	105	111	133	152	176	221	NA	NA	NA
South Korea									
All fields	10,542	11,645	12,243	12,625	12,931	13,077	13,882	14,316	14,674
All S&E	4,421	5,454	5,713	5,963	6,087	6,104	6,557	6,903	7,077
Physical and biological sciences and mathematics and statistics	1,194	1,582	1,699	1,604	1,734	1,751	1,861	1,897	1,862
Computer sciences	116	151	149	472	491	150	154	471	495
Agricultural sciences	276	276	260	332	328	271	286	345	332
Social and behavioral sciences	461	510	579	558	547	668	737	693	727
Engineering	2,374	2,935	3,026	2,997	2,987	3,264	3,519	3,497	3,661
Spain									
All fields	8,846	8,747	9,483	10,504	10,889	11,316	14,694	20,049	17,286
All S&E	5,101	5,576	5,812	6,474	6,708	7,174	8,373	10,711	9,480

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Physical and biological sciences and mathematics and statistics	2,099	3,211	3,053	3,374	3,400	4,267	4,706	5,536	5,177
Computer sciences	474	507	422	439	520	726	775	958	822
Agricultural sciences	294	218	298	297	235	193	248	360	288
Social and behavioral sciences	938	1,032	1,237	1,439	1,367	1,132	1,503	2,256	1,950
Engineering	1,296	608	802	925	1,186	856	1,141	1,601	1,243
Sweden									
All fields	3,371	3,356	3,343	3,345	3,584	3,647	3,533	3,586	3,212
All S&E	1,953	1,971	1,974	2,055	2,149	2,211	2,188	2,184	1,806
Physical and biological sciences and mathematics and statistics	673	678	726	670	695	763	745	728	616
Computer sciences	106	139	141	125	184	175	177	187	171
Agricultural sciences	59	60	58	68	55	51	81	82	35
Social and behavioral sciences	272	272	220	246	260	266	258	295	259
Engineering	843	822	829	946	955	956	927	892	725
Switzerland									
All fields	3,591	3,490	3,650	3,641	3,849	3,853	3,935	4,150	4,163
All S&E	1,986	2,075	2,142	2,103	2,352	2,325	2,441	2,536	2,531
Physical and biological sciences and mathematics and statistics	1,027	1,109	1,126	1,152	1,217	1,191	1,253	1,324	1,297
Computer sciences	100	96	137	83	116	122	120	143	118
Agricultural sciences	158	119	118	106	105	98	122	124	107
Social and behavioral sciences	264	306	269	296	317	330	319	323	365
Engineering	437	445	492	466	597	584	627	622	644
Taiwan									
All fields	3,705	3,846	3,861	4,241	4,048	4,000	3,623	3,512	3,423
All S&E	2,532	2,498	2,519	2,706	2,514	2,461	2,164	2,073	1,949
Physical and biological sciences and mathematics and statistics	568	569	597	685	620	600	565	603	572
Computer sciences	74	76	74	79	57	59	51	151	141
Agricultural sciences	108	93	120	116	117	121	101	68	63
Social and behavioral sciences	174	159	185	189	204	220	203	142	126
Engineering	1,608	1,601	1,543	1,637	1,516	1,461	1,244	1,109	1,047
Turkey									
All fields	9,785	9,653	8,734	8,734	4,516	5,192	6,052	6,045	7,332
All S&E	2,562	2,479	2,392	2,392	2,188	2,532	3,004	3,036	3,637
Physical and biological sciences and mathematics and statistics	778	969	1,088	1,088	844	961	1,207	1,130	1,239
Computer sciences	74	74	69	69	5	6	34	13	39
Agricultural sciences	382	282	249	249	212	220	210	224	322
Social and behavioral sciences	594	366	358	358	388	411	465	524	616
Engineering	734	788	628	628	739	934	1,088	1,145	1,421
United Kingdom									
All fields	18,756	20,076	20,438	25,896	25,020	26,636	26,636	27,366	29,469
All S&E	11,322	11,859	12,103	14,732	14,271	15,338	15,338	15,757	17,366
Physical and biological sciences and mathematics and statistics	4,696	4,965	4,874	7,454	7,198	7,634	7,634	7,763	8,737
Computer sciences	843	871	902	1,038	925	1,023	1,023	1,136	1,216
Agricultural sciences	215	218	232	305	288	313	313	334	364
Social and behavioral sciences	2,787	2,954	3,091	2,349	2,339	2,599	2,599	2,559	2,750
Engineering	2,780	2,851	3,004	3,586	3,521	3,768	3,768	3,965	4,299

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
United States									
All fields	57,407	59,814	62,276	65,020	67,438	68,923	69,525	71,042	72,731
All S&E	33,672	35,113	36,356	37,951	39,682	39,933	39,710	40,319	41,071
Physical and biological sciences and mathematics and statistics	14,777	15,114	15,519	15,949	16,588	16,344	16,466	16,735	17,076
Computer sciences	1,563	1,572	1,703	1,822	1,946	1,963	1,951	1,955	1,996
Agricultural sciences	825	884	937	992	952	1,052	1,003	1,034	1,021
Social and behavioral sciences	8,534	8,934	9,097	9,467	9,834	9,949	9,708	9,799	9,802
Engineering	7,973	8,609	9,100	9,721	10,362	10,625	10,582	10,796	11,176

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 also 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 vary slightly from the National Center for Science and Engineering Statistics 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; National Bureau of Statistics of China, *China Statistical Yearbook* (various years); People's Republic of China, Ministry of Education data (various years); Ministry of Education, *Educational Statistics of the Republic of China (Taiwan)* (various years); Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education (various years); Government of India, Ministry of Human Resource Development, Department of Higher Education, All India Survey on Higher Education (various years).

Science and Engineering Indicators