

Table 7-2

## Doctoral degrees awarded, by field, citizenship, ethnicity, and race: 2008–18

(Number)

Field, citizenship, ethnicity, and race	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
All fields	61,716	61,730	57,405	59,847	62,181	64,887	67,591	69,115	69,836	71,142	72,332
U.S. citizen and permanent resident	44,509	45,019	41,759	43,514	45,313	47,233	49,267	50,859	51,317	52,258	52,594
Hispanic or Latino <sup>a</sup>	2,410	2,419	2,294	2,457	2,707	2,938	3,239	3,554	3,891	3,929	4,072
Not Hispanic or Latino	42,099	42,600	39,465	41,057	42,606	44,295	46,028	47,305	47,426	48,329	48,522
American Indian or Alaska Native	244	282	224	232	232	261	241	264	246	250	241
Asian	na	na	na	3,125	3,342	3,431	3,440	3,664	3,567	3,791	3,801
Asian or Pacific Islander <sup>b</sup>	3,201	3,203	3,183	na	na	na	na	na	na	na	na
Black or African American	3,478	3,645	3,372	3,759	4,065	4,331	4,780	5,050	5,265	5,709	5,568
Native Hawaiian or Other Pacific Islander	na	na	na	55	55	70	70	76	91	82	81
White	31,342	31,526	28,670	29,455	30,424	31,614	32,622	33,218	33,202	33,281	33,432
More than one race <sup>c</sup>	na	na	na	337	397	522	643	777	980	1,161	1,243
Other or unknown race and ethnicity	3,834	3,944	4,016	4,094	4,091	4,066	4,232	4,256	4,075	4,055	4,156
Temporary resident	17,207	16,711	15,646	16,333	16,868	17,654	18,324	18,256	18,519	18,884	19,738
All S&E	33,359	33,284	32,649	34,205	35,359	36,928	38,939	39,178	39,053	39,528	40,057
U.S. citizen and permanent resident	20,186	20,560	20,570	21,600	22,258	23,218	24,393	24,671	24,544	24,697	24,682
Hispanic or Latino <sup>a</sup>	1,162	1,098	1,169	1,259	1,327	1,490	1,620	1,739	1,944	1,876	1,897
Not Hispanic or Latino	19,024	19,462	19,401	20,341	20,931	21,728	22,773	22,932	22,600	22,821	22,785
American Indian or Alaska Native	102	120	103	108	99	107	110	117	104	89	87
Asian	na	na	na	2,073	2,166	2,173	2,218	2,315	2,244	2,407	2,390
Asian or Pacific Islander <sup>b</sup>	1,933	1,947	2,054	na	na	na	na	na	na	na	na
Black or African American	983	1,041	973	1,101	1,140	1,277	1,375	1,367	1,405	1,453	1,367
Native Hawaiian or Other Pacific Islander	na	na	na	33	20	23	33	26	30	27	29
White	14,220	14,552	14,278	14,748	15,255	15,816	16,497	16,559	16,302	16,370	16,344
More than one race <sup>c</sup>	na	na	na	182	232	276	377	434	545	642	682
Other or unknown race and ethnicity	1,786	1,802	1,993	2,096	2,019	2,056	2,163	2,114	1,970	1,833	1,886
Temporary resident	13,173	12,724	12,079	12,605	13,101	13,710	14,546	14,507	14,509	14,831	15,375
Science	25,249	25,369	24,837	25,727	26,486	27,439	28,804	28,772	28,695	28,981	29,106
U.S. citizen and permanent resident	17,006	17,186	17,063	17,887	18,332	19,095	19,942	20,051	19,942	20,123	20,049
Hispanic or Latino <sup>a</sup>	1,032	945	973	1,077	1,136	1,288	1,373	1,453	1,659	1,570	1,613
Not Hispanic or Latino	15,974	16,241	16,090	16,810	17,196	17,807	18,569	18,598	18,283	18,553	18,436
American Indian or Alaska Native	87	101	93	93	88	100	97	105	94	77	77
Asian	na	na	na	1,474	1,593	1,584	1,581	1,651	1,583	1,720	1,726
Asian or Pacific Islander <sup>b</sup>	1,432	1,443	1,537	na	na	na	na	na	na	na	na
Black or African American	855	902	819	960	965	1,090	1,203	1,202	1,208	1,271	1,196
Native Hawaiian or Other Pacific Islander	na	na	na	29	18	16	25	25	27	22	29
White	12,108	12,317	11,992	12,355	12,663	13,115	13,569	13,536	13,335	13,488	13,387
More than one race <sup>c</sup>	na	na	na	150	190	217	299	347	429	532	545
Other or unknown race and ethnicity	1,492	1,478	1,649	1,749	1,679	1,685	1,795	1,732	1,607	1,443	1,476
Temporary resident	8,243	8,183	7,774	7,840	8,154	8,344	8,862	8,721	8,753	8,858	9,057
Agricultural sciences	1,080	1,143	982	1,053	1,144	1,218	1,228	1,381	1,343	1,364	1,345
U.S. citizen and permanent resident	668	715	639	660	694	770	755	888	849	825	841
Hispanic or Latino <sup>a</sup>	18	21	33	45	41	45	49	47	58	54	57
Not Hispanic or Latino	650	694	606	615	653	725	706	841	791	771	784
American Indian or Alaska Native	8	5	6	5	9	4	5	8	6	3	5
Asian	na	na	na	28	34	29	34	35	43	42	36
Asian or Pacific Islander <sup>b</sup>	34	34	32	na	na	na	na	na	na	na	na
Black or African American	26	28	47	21	38	33	32	31	38	43	42

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## Doctoral degrees awarded, by field, citizenship, ethnicity, and race: 2008–18

(Number)

Field, citizenship, ethnicity, and race	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Native Hawaiian or Other Pacific Islander	na	na	na	1	0	1	1	1	0	0	2
White	534	576	480	509	519	586	577	673	633	611	625
More than one race <sup>c</sup>	na	na	na	5	4	7	4	14	15	18	17
Other or unknown race and ethnicity	48	51	41	46	49	65	53	79	56	54	57
Temporary resident	412	428	343	393	450	448	473	493	494	539	504
Biological sciences	7,319	7,429	7,571	7,596	7,817	7,825	8,207	7,890	7,858	8,003	8,096
U.S. citizen and permanent resident	5,091	5,310	5,447	5,513	5,705	5,710	5,957	5,720	5,740	5,930	6,029
Hispanic or Latino <sup>a</sup>	274	282	326	324	329	393	379	425	454	440	472
Not Hispanic or Latino	4,817	5,028	5,121	5,189	5,376	5,317	5,578	5,295	5,286	5,490	5,557
American Indian or Alaska Native	20	27	21	25	33	25	16	24	24	23	10
Asian	na	na	na	596	659	656	646	667	632	686	654
Asian or Pacific Islander <sup>b</sup>	575	567	650	na	na	na	na	na	na	na	na
Black or African American	229	252	206	249	267	284	271	219	245	278	287
Native Hawaiian or Other Pacific Islander	na	na	na	12	10	7	12	8	11	11	7
White	3,608	3,782	3,759	3,787	3,859	3,860	4,067	3,886	3,881	3,951	4,057
More than one race <sup>c</sup>	na	na	na	44	59	62	99	110	127	196	162
Other or unknown race and ethnicity	385	400	485	476	489	423	467	381	366	345	380
Temporary resident	2,228	2,119	2,124	2,083	2,112	2,115	2,250	2,170	2,118	2,073	2,067
Computer sciences	1,696	1,574	1,561	1,562	1,690	1,809	1,935	1,951	1,936	1,934	1,974
U.S. citizen and permanent resident	667	730	782	772	819	849	875	864	816	845	814
Hispanic or Latino <sup>a</sup>	16	23	17	19	26	40	31	42	36	45	48
Not Hispanic or Latino	651	707	765	753	793	809	844	822	780	800	766
American Indian or Alaska Native	0	2	3	3	2	0	7	4	1	2	3
Asian	na	na	na	128	129	128	110	112	88	100	108
Asian or Pacific Islander <sup>b</sup>	87	116	124	na	na	na	na	na	na	na	na
Black or African American	24	30	33	31	39	52	52	57	69	62	54
Native Hawaiian or Other Pacific Islander	na	na	na	2	0	0	0	0	1	1	0
White	446	483	506	514	526	531	554	535	516	529	494
More than one race <sup>c</sup>	na	na	na	3	3	3	7	16	19	14	24
Other or unknown race and ethnicity	94	76	99	72	94	95	114	98	86	92	83
Temporary resident	1,029	844	779	790	871	960	1,060	1,087	1,120	1,089	1,160
Earth, atmospheric, and ocean sciences	683	724	713	687	737	794	861	827	912	890	933
U.S. citizen and permanent resident	436	477	481	472	498	540	583	566	610	622	619
Hispanic or Latino <sup>a</sup>	17	14	16	14	18	24	21	31	27	38	42
Not Hispanic or Latino	419	463	465	458	480	516	562	535	583	584	577
American Indian or Alaska Native	2	2	2	0	2	4	1	3	5	4	0
Asian	na	na	na	22	19	13	21	17	28	29	27
Asian or Pacific Islander <sup>b</sup>	17	15	15	na	na	na	na	na	na	na	na
Black or African American	7	6	5	5	15	11	12	11	11	11	13
Native Hawaiian or Other Pacific Islander	na	na	na	0	1	0	0	1	0	0	1
White	349	390	395	385	404	450	483	444	480	486	477
More than one race <sup>c</sup>	na	na	na	1	6	5	9	8	14	13	23
Other or unknown race and ethnicity	44	50	48	45	33	33	36	51	45	41	36
Temporary resident	247	247	232	215	239	254	278	261	302	268	314
Atmospheric sciences	106	110	100	120	125	137	126	146	142	153	174

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## Doctoral degrees awarded, by field, citizenship, ethnicity, and race: 2008–18

(Number)

Field, citizenship, ethnicity, and race	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
U.S. citizen and permanent resident	58	68	50	83	75	91	85	99	96	106	103
Hispanic or Latino <sup>a</sup>	2	0	0	1	2	2	3	2	8	7	9
Not Hispanic or Latino	56	68	50	82	73	89	82	97	88	99	94
American Indian or Alaska Native	0	0	1	0	0	0	0	0	0	0	0
Asian	na	na	na	6	5	2	3	6	5	9	9
Asian or Pacific Islander <sup>b</sup>	1	1	2	na	na	na	na	na	na	na	na
Black or African American	1	2	0	1	3	4	0	4	6	1	2
Native Hawaiian or Other Pacific Islander	na	na	na	0	1	0	0	0	0	0	0
White	49	61	43	67	61	75	77	82	73	82	78
More than one race <sup>c</sup>	na	na	na	1	1	1	0	0	0	2	1
Other or unknown race and ethnicity	5	4	4	7	2	7	2	5	4	5	4
Temporary resident	48	42	50	37	50	46	41	47	46	47	71
Earth sciences	469	503	496	467	497	530	606	575	631	629	648
U.S. citizen and permanent resident	302	333	350	312	339	363	395	391	411	427	434
Hispanic or Latino <sup>a</sup>	13	12	13	11	11	19	13	25	16	23	28
Not Hispanic or Latino	289	321	337	301	328	344	382	366	395	404	406
American Indian or Alaska Native	2	1	1	0	1	4	0	3	4	2	0
Asian	na	na	na	12	13	9	14	11	15	16	16
Asian or Pacific Islander <sup>b</sup>	12	10	11	na	na	na	na	na	na	na	na
Black or African American	5	4	5	3	10	5	9	6	4	7	10
Native Hawaiian or Other Pacific Islander	na	na	na	0	0	0	0	1	0	0	1
White	235	263	280	258	274	302	322	302	325	340	332
More than one race <sup>c</sup>	na	na	na	0	5	4	7	8	11	7	18
Other or unknown race and ethnicity	35	43	40	28	25	20	30	35	36	32	29
Temporary resident	167	170	146	155	158	167	211	184	220	202	214
Ocean sciences	108	111	117	100	115	127	129	106	139	108	111
U.S. citizen and permanent resident	76	76	81	77	84	86	103	76	103	89	82
Hispanic or Latino <sup>a</sup>	2	2	3	2	5	3	5	4	3	8	5
Not Hispanic or Latino	74	74	78	75	79	83	98	72	100	81	77
American Indian or Alaska Native	0	1	0	0	1	0	1	0	1	2	0
Asian	na	na	na	4	1	2	4	0	8	4	2
Asian or Pacific Islander <sup>b</sup>	4	4	2	na	na	na	na	na	na	na	na
Black or African American	1	0	0	1	2	2	3	1	1	3	1
Native Hawaiian or Other Pacific Islander	na	na	na	0	0	0	0	0	0	0	0
White	65	66	72	60	69	73	84	60	82	64	67
More than one race <sup>c</sup>	na	na	na	0	0	0	2	0	3	4	4
Other or unknown race and ethnicity	4	3	4	10	6	6	4	11	5	4	3
Temporary resident	32	35	36	23	31	41	26	30	36	19	29
Mathematics and statistics	1,362	1,536	1,594	1,590	1,670	1,824	1,864	1,802	1,855	1,925	2,013
U.S. citizen and permanent resident	671	788	863	849	852	912	948	900	982	982	1,010
Hispanic or Latino <sup>a</sup>	29	35	31	29	39	34	35	35	62	46	59
Not Hispanic or Latino	642	753	832	820	813	878	913	865	920	936	951
American Indian or Alaska Native	2	3	2	5	0	3	1	1	4	3	1
Asian	na	na	na	89	70	102	79	80	101	127	111
Asian or Pacific Islander <sup>b</sup>	53	78	84	na	na	na	na	na	na	na	na
Black or African American	22	27	24	23	21	27	27	20	36	21	31

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## Doctoral degrees awarded, by field, citizenship, ethnicity, and race: 2008–18

(Number)

Field, citizenship, ethnicity, and race	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Native Hawaiian or Other Pacific Islander	na	na	na	1	2	0	1	2	0	0	2
White	490	559	634	627	636	652	708	676	656	683	688
More than one race <sup>c</sup>	na	na	na	2	9	11	13	8	35	27	29
Other or unknown race and ethnicity	75	86	88	73	75	83	84	78	88	75	89
Temporary resident	691	748	731	741	818	912	916	902	873	943	1,003
Physical sciences	4,205	4,416	4,326	4,560	4,589	4,703	4,947	4,971	5,078	5,086	5,204
U.S. citizen and permanent resident	2,307	2,486	2,489	2,652	2,709	2,774	2,823	2,974	3,016	3,015	3,087
Hispanic or Latino <sup>a</sup>	112	115	108	123	132	133	151	154	159	174	179
Not Hispanic or Latino	2,195	2,371	2,381	2,529	2,577	2,641	2,672	2,820	2,857	2,841	2,908
American Indian or Alaska Native	5	10	11	10	6	8	16	11	5	8	9
Asian	na	na	na	204	237	236	240	256	250	276	304
Asian or Pacific Islander <sup>b</sup>	216	204	217	na	na	na	na	na	na	na	na
Black or African American	77	78	80	86	79	95	107	107	99	88	93
Native Hawaiian or Other Pacific Islander	na	na	na	6	4	0	3	5	2	1	7
White	1,685	1,852	1,801	1,913	1,958	2,041	2,002	2,132	2,218	2,203	2,238
More than one race <sup>c</sup>	na	na	na	26	28	38	43	46	62	65	76
Other or unknown race and ethnicity	212	227	272	284	265	223	261	263	221	200	181
Temporary resident	1,898	1,930	1,837	1,908	1,880	1,929	2,124	1,997	2,062	2,071	2,117
Astronomy	163	143	160	166	170	174	179	153	169	196	211
U.S. citizen and permanent resident	117	98	119	108	124	120	131	118	124	140	163
Hispanic or Latino <sup>a</sup>	3	4	4	5	5	3	3	9	6	7	11
Not Hispanic or Latino	114	94	115	103	119	117	128	109	118	133	152
American Indian or Alaska Native	0	0	1	0	1	2	1	0	0	0	0
Asian	na	na	na	4	7	6	7	9	12	10	12
Asian or Pacific Islander <sup>b</sup>	4	3	4	na	na	na	na	na	na	na	na
Black or African American	0	0	2	1	0	0	1	1	1	1	1
Native Hawaiian or Other Pacific Islander	na	na	na	0	0	0	0	0	0	0	0
White	94	85	97	84	105	98	100	80	92	115	124
More than one race <sup>c</sup>	na	na	na	2	0	0	3	3	2	3	3
Other or unknown race and ethnicity	16	6	11	12	6	11	16	16	11	4	12
Temporary resident	46	45	41	58	46	54	48	35	45	56	48
Chemistry	2,495	2,652	2,564	2,685	2,630	2,730	2,921	2,906	3,002	2,990	3,059
U.S. citizen and permanent resident	1,414	1,586	1,542	1,592	1,584	1,653	1,703	1,787	1,806	1,838	1,873
Hispanic or Latino <sup>a</sup>	89	86	72	79	76	89	100	100	109	109	115
Not Hispanic or Latino	1,325	1,500	1,470	1,513	1,508	1,564	1,603	1,687	1,697	1,729	1,758
American Indian or Alaska Native	4	7	8	7	4	4	12	5	4	7	7
Asian	na	na	na	135	165	155	149	174	161	183	208
Asian or Pacific Islander <sup>b</sup>	150	148	151	na	na	na	na	na	na	na	na
Black or African American	62	66	59	67	58	78	81	88	72	66	79
Native Hawaiian or Other Pacific Islander	na	na	na	4	4	0	1	3	0	1	5
White	993	1,145	1,095	1,131	1,104	1,197	1,178	1,243	1,307	1,308	1,320
More than one race <sup>c</sup>	na	na	na	14	15	24	24	32	40	45	41
Other or unknown race and ethnicity	116	134	157	155	158	106	158	142	113	119	98
Temporary resident	1,081	1,066	1,022	1,093	1,046	1,077	1,218	1,119	1,196	1,152	1,186
Physics	1,507	1,580	1,570	1,670	1,752	1,740	1,768	1,840	1,833	1,826	1,879

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## Doctoral degrees awarded, by field, citizenship, ethnicity, and race: 2008–18

(Number)

Field, citizenship, ethnicity, and race	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
U.S. citizen and permanent resident	754	781	808	928	985	970	951	1,028	1,041	1,004	1,025
Hispanic or Latino <sup>a</sup>	20	25	32	37	51	41	48	44	43	57	53
Not Hispanic or Latino	734	756	776	891	934	929	903	984	998	947	972
American Indian or Alaska Native	1	3	2	3	1	2	3	5	1	1	2
Asian	na	na	na	63	65	72	82	73	73	80	84
Asian or Pacific Islander <sup>b</sup>	57	53	60	na	na	na	na	na	na	na	na
Black or African American	15	11	18	17	21	15	21	18	24	19	12
Native Hawaiian or Other Pacific Islander	na	na	na	2	0	0	2	2	1	0	2
White	582	603	592	681	734	721	695	774	788	759	773
More than one race <sup>c</sup>	na	na	na	9	13	14	15	10	19	17	30
Other or unknown race and ethnicity	79	86	104	116	100	105	85	102	92	71	69
Temporary resident	753	799	762	742	767	770	817	812	792	822	854
Other	40	41	32	39	37	59	79	72	74	74	55
U.S. citizen and permanent resident	22	21	20	24	16	31	38	41	45	33	26
Hispanic or Latino <sup>a</sup>	0	0	0	2	0	0	0	1	1	1	0
Not Hispanic or Latino	22	21	20	22	16	31	38	40	44	32	26
American Indian or Alaska Native	0	0	0	0	0	0	0	1	0	0	0
Asian	na	na	na	2	0	3	2	0	4	3	0
Asian or Pacific Islander <sup>b</sup>	5	0	2	na	na	na	na	na	na	na	na
Black or African American	0	1	1	1	0	2	4	0	2	2	1
Native Hawaiian or Other Pacific Islander	na	na	na	0	0	0	0	0	1	0	0
White	16	19	17	17	15	25	29	35	31	21	21
More than one race <sup>c</sup>	na	na	na	1	0	0	1	1	1	0	2
Other or unknown race and ethnicity	1	1	0	1	1	1	2	3	5	6	2
Temporary resident	18	20	12	15	21	28	41	31	29	41	29
Psychology	4,600	4,046	3,606	3,952	3,867	4,280	4,574	4,533	4,526	4,486	4,325
U.S. citizen and permanent resident	4,359	3,770	3,334	3,694	3,616	4,017	4,320	4,261	4,292	4,217	4,042
Hispanic or Latino <sup>a</sup>	420	316	277	335	342	408	483	488	590	530	502
Not Hispanic or Latino	3,939	3,454	3,057	3,359	3,274	3,609	3,837	3,773	3,702	3,687	3,540
American Indian or Alaska Native	31	23	19	23	21	31	20	21	22	14	18
Asian	na	na	na	189	213	199	213	255	228	216	229
Asian or Pacific Islander <sup>b</sup>	252	207	197	na	na	na	na	na	na	na	na
Black or African American	271	259	212	275	238	299	362	414	406	388	332
Native Hawaiian or Other Pacific Islander	na	na	na	1	0	4	6	3	10	4	4
White	3,036	2,664	2,342	2,471	2,435	2,633	2,799	2,661	2,566	2,647	2,526
More than one race <sup>c</sup>	na	na	na	40	45	47	72	78	104	108	107
Other or unknown race and ethnicity	349	301	287	360	322	396	365	341	366	310	324
Temporary resident	241	276	272	258	251	263	254	272	234	269	283
Social sciences	4,304	4,501	4,484	4,727	4,972	4,986	5,188	5,417	5,187	5,293	5,216
U.S. citizen and permanent resident	2,807	2,910	3,028	3,275	3,439	3,523	3,681	3,878	3,637	3,687	3,607
Hispanic or Latino <sup>a</sup>	146	139	165	188	209	211	224	231	273	243	254
Not Hispanic or Latino	2,661	2,771	2,863	3,087	3,230	3,312	3,457	3,647	3,364	3,444	3,353
American Indian or Alaska Native	19	29	29	22	15	25	31	33	27	20	31
Asian	na	na	na	218	232	221	238	229	213	244	257
Asian or Pacific Islander <sup>b</sup>	198	222	218	na	na	na	na	na	na	na	na
Black or African American	199	222	212	270	268	289	340	343	304	380	344

Table 7-2

## Doctoral degrees awarded, by field, citizenship, ethnicity, and race: 2008–18

(Number)

Field, citizenship, ethnicity, and race	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Native Hawaiian or Other Pacific Islander	na	na	na	6	1	4	2	5	3	5	6
White	1,960	2,011	2,075	2,149	2,326	2,362	2,379	2,529	2,385	2,378	2,282
More than one race <sup>c</sup>	na	na	na	29	36	44	52	67	53	91	107
Other or unknown race and ethnicity	285	287	329	393	352	367	415	441	379	326	326
Temporary resident	1,497	1,591	1,456	1,452	1,533	1,463	1,507	1,539	1,550	1,606	1,609
Anthropology	491	527	534	596	585	595	606	577	591	581	573
U.S. citizen and permanent resident	416	431	444	505	490	508	507	489	486	485	483
Hispanic or Latino <sup>a</sup>	29	34	27	40	36	36	51	33	40	32	31
Not Hispanic or Latino	387	397	417	465	454	472	456	456	446	453	452
American Indian or Alaska Native	1	6	9	4	6	6	7	8	6	4	6
Asian	na	na	na	23	21	35	32	21	20	13	25
Asian or Pacific Islander <sup>b</sup>	29	18	19	na	na	na	na	na	na	na	na
Black or African American	18	22	21	18	14	20	21	17	21	30	19
Native Hawaiian or Other Pacific Islander	na	na	na	1	0	1	0	1	0	1	0
White	299	308	318	365	359	349	330	331	341	336	332
More than one race <sup>c</sup>	na	na	na	4	9	5	10	9	6	13	18
Other or unknown race and ethnicity	40	43	50	50	45	56	56	69	52	56	52
Temporary resident	75	96	90	91	95	87	99	88	105	96	90
Area and ethnic studies	246	226	237	257	274	272	316	309	302	323	316
U.S. citizen and permanent resident	190	178	191	214	220	240	265	263	254	262	266
Hispanic or Latino <sup>a</sup>	11	8	16	14	21	24	23	26	34	33	32
Not Hispanic or Latino	179	170	175	200	199	216	242	237	220	229	234
American Indian or Alaska Native	6	11	6	6	6	10	6	10	7	4	12
Asian	na	na	na	21	24	16	25	14	12	17	22
Asian or Pacific Islander <sup>b</sup>	9	10	21	na	na	na	na	na	na	na	na
Black or African American	36	33	30	30	36	38	42	39	39	49	49
Native Hawaiian or Other Pacific Islander	na	na	na	1	0	0	1	2	2	0	2
White	109	95	92	113	106	129	122	138	131	136	116
More than one race <sup>c</sup>	na	na	na	2	4	2	10	7	7	9	11
Other or unknown race and ethnicity	19	21	26	27	23	21	36	27	22	14	22
Temporary resident	56	48	46	43	54	32	51	46	48	61	50
Economics	1,172	1,172	1,120	1,152	1,271	1,227	1,212	1,283	1,298	1,325	1,326
U.S. citizen and permanent resident	438	408	459	456	538	535	500	566	537	538	516
Hispanic or Latino <sup>a</sup>	16	18	22	16	17	37	23	35	37	22	28
Not Hispanic or Latino	422	390	437	440	521	498	477	531	500	516	488
American Indian or Alaska Native	1	1	1	1	0	0	1	3	0	1	0
Asian	na	na	na	55	60	58	60	65	57	65	60
Asian or Pacific Islander <sup>b</sup>	49	48	53	na	na	na	na	na	na	na	na
Black or African American	15	8	10	19	15	21	18	11	17	18	21
Native Hawaiian or Other Pacific Islander	na	na	na	1	0	0	0	0	0	0	0
White	292	281	322	279	375	355	331	372	359	357	340
More than one race <sup>c</sup>	na	na	na	10	4	5	6	12	9	15	15
Other or unknown race and ethnicity	65	52	51	75	67	59	61	68	58	60	52
Temporary resident	734	764	661	696	733	692	712	717	761	787	810
History of science	34	19	31	27	24	29	41	31	31	30	27





Table 7-2

## Doctoral degrees awarded, by field, citizenship, ethnicity, and race: 2008–18

(Number)

Field, citizenship, ethnicity, and race	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Black or African American	45	48	51	47	48	51	55	65	51	66	70
Native Hawaiian or Other Pacific Islander	na	na	na	2	0	0	0	0	0	0	0
White	321	354	355	375	355	360	391	401	362	355	367
More than one race <sup>c</sup>	na	na	na	3	7	9	8	11	9	16	18
Other or unknown race and ethnicity	32	34	38	40	42	34	49	54	46	51	32
Temporary resident	117	136	108	116	99	109	112	110	106	106	115
Other	448	438	435	475	532	493	544	596	530	551	520
U.S. citizen and permanent resident	321	318	320	362	413	387	427	479	410	423	399
Hispanic or Latino <sup>a</sup>	13	16	20	15	20	20	23	24	35	16	23
Not Hispanic or Latino	308	302	300	347	393	367	404	455	375	407	376
American Indian or Alaska Native	0	2	4	3	1	1	2	1	2	2	4
Asian	na	na	na	11	19	11	23	22	10	27	22
Asian or Pacific Islander <sup>b</sup>	18	21	14	na	na	na	na	na	na	na	na
Black or African American	16	14	18	30	26	13	23	23	27	24	25
Native Hawaiian or Other Pacific Islander	na	na	na	0	0	0	0	0	0	1	0
White	246	241	230	266	310	299	306	344	295	315	280
More than one race <sup>c</sup>	na	na	na	1	3	4	6	4	5	11	9
Other or unknown race and ethnicity	28	24	34	36	34	39	44	61	36	27	36
Temporary resident	127	120	115	113	119	106	117	117	120	128	121
Engineering	8,110	7,915	7,812	8,478	8,873	9,489	10,135	10,406	10,358	10,547	10,951
U.S. citizen and permanent resident	3,180	3,374	3,507	3,713	3,926	4,123	4,451	4,620	4,602	4,574	4,633
Hispanic or Latino <sup>a</sup>	130	153	196	182	191	202	247	286	285	306	284
Not Hispanic or Latino	3,050	3,221	3,311	3,531	3,735	3,921	4,204	4,334	4,317	4,268	4,349
American Indian or Alaska Native	15	19	10	15	11	7	13	12	10	12	10
Asian	na	na	na	599	573	589	637	664	661	687	664
Asian or Pacific Islander <sup>b</sup>	501	504	517	na	na	na	na	na	na	na	na
Black or African American	128	139	154	141	175	187	172	165	197	182	171
Native Hawaiian or Other Pacific Islander	na	na	na	4	2	7	8	1	3	5	0
White	2,112	2,235	2,286	2,393	2,592	2,701	2,928	3,023	2,967	2,882	2,957
More than one race <sup>c</sup>	na	na	na	32	42	59	78	87	116	110	137
Other or unknown race and ethnicity	294	324	344	347	340	371	368	382	363	390	410
Temporary resident	4,930	4,541	4,305	4,765	4,947	5,366	5,684	5,786	5,756	5,973	6,318
Aerospace engineering	232	257	228	237	275	310	336	310	332	342	347
U.S. citizen and permanent resident	103	137	122	130	163	169	208	194	208	214	197
Hispanic or Latino <sup>a</sup>	3	8	7	8	9	11	16	8	15	9	15
Not Hispanic or Latino	100	129	115	122	154	158	192	186	193	205	182
American Indian or Alaska Native	1	0	0	0	1	0	1	0	0	0	0
Asian	na	na	na	16	15	16	18	12	20	26	13
Asian or Pacific Islander <sup>b</sup>	9	16	12	na	na	na	na	na	na	na	na
Black or African American	2	3	3	4	9	4	2	5	4	6	8
Native Hawaiian or Other Pacific Islander	na	na	na	0	0	0	1	0	0	0	0
White	81	99	90	93	112	128	156	150	153	155	153
More than one race <sup>c</sup>	na	na	na	2	6	3	3	5	4	5	4
Other or unknown race and ethnicity	7	11	10	7	11	7	11	14	12	13	4
Temporary resident	129	120	106	107	112	141	128	116	124	128	150





Table 7-2

## Doctoral degrees awarded, by field, citizenship, ethnicity, and race: 2008–18

(Number)

Field, citizenship, ethnicity, and race	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Black or African American	18	10	16	13	18	23	10	10	9	21	1
Native Hawaiian or Other Pacific Islander	na	na	na	0	0	0	0	0	0	0	0
White	71	71	66	77	78	76	89	64	82	73	71
More than one race <sup>c</sup>	na	na	na	0	1	0	3	3	6	4	5
Other or unknown race and ethnicity	9	10	7	10	12	12	6	6	8	12	11
Temporary resident	221	221	174	195	224	256	264	243	249	238	286
Materials engineering	665	661	653	651	715	757	734	810	842	877	891
U.S. citizen and permanent resident	284	281	316	283	363	348	348	374	415	437	434
Hispanic or Latino <sup>a</sup>	7	10	19	9	14	16	26	26	31	32	29
Not Hispanic or Latino	277	271	297	274	349	332	322	348	384	405	405
American Indian or Alaska Native	1	1	1	3	1	0	2	0	0	1	0
Asian	na	na	na	46	56	51	45	50	51	57	53
Asian or Pacific Islander <sup>b</sup>	27	32	43	na	na	na	na	na	na	na	na
Black or African American	13	15	18	10	14	20	12	8	15	12	26
Native Hawaiian or Other Pacific Islander	na	na	na	0	0	0	0	1	1	1	0
White	209	194	208	183	253	234	233	263	269	292	280
More than one race <sup>c</sup>	na	na	na	5	5	6	6	7	14	16	16
Other or unknown race and ethnicity	27	29	27	27	20	21	24	19	34	26	30
Temporary resident	381	380	337	368	352	409	386	436	427	440	457
Mechanical engineering	1,149	1,186	1,022	1,172	1,277	1,384	1,454	1,586	1,534	1,498	1,665
U.S. citizen and permanent resident	406	472	425	505	556	614	643	683	680	654	698
Hispanic or Latino <sup>a</sup>	17	28	23	31	28	34	34	35	40	48	45
Not Hispanic or Latino	389	444	402	474	528	580	609	648	640	606	653
American Indian or Alaska Native	3	2	2	4	2	1	0	3	1	3	3
Asian	na	na	na	59	47	60	85	81	81	78	85
Asian or Pacific Islander <sup>b</sup>	45	50	46	na	na	na	na	na	na	na	na
Black or African American	23	19	15	13	21	29	17	21	21	16	19
Native Hawaiian or Other Pacific Islander	na	na	na	0	1	1	1	0	0	1	0
White	282	320	310	343	402	428	437	484	477	437	472
More than one race <sup>c</sup>	na	na	na	6	3	9	12	12	13	17	21
Other or unknown race and ethnicity	36	53	29	49	52	52	57	47	47	54	53
Temporary resident	743	714	597	667	721	770	811	903	854	844	967
Other	1,580	1,600	1,670	1,902	1,892	2,143	2,246	2,268	2,308	2,366	2,488
U.S. citizen and permanent resident	811	876	955	1,063	1,065	1,208	1,309	1,304	1,336	1,348	1,403
Hispanic or Latino <sup>a</sup>	33	31	35	42	42	56	62	81	67	82	87
Not Hispanic or Latino	778	845	920	1,021	1,023	1,152	1,247	1,223	1,269	1,266	1,316
American Indian or Alaska Native	3	6	1	3	2	2	6	2	6	4	4
Asian	na	na	na	181	161	191	182	207	208	205	217
Asian or Pacific Islander <sup>b</sup>	136	144	145	na	na	na	na	na	na	na	na
Black or African American	25	42	49	40	46	50	55	53	69	62	58
Native Hawaiian or Other Pacific Islander	na	na	na	3	1	3	4	0	1	2	0
White	545	583	620	694	708	766	879	838	815	856	856
More than one race <sup>c</sup>	na	na	na	9	13	16	21	24	40	25	47
Other or unknown race and ethnicity	69	70	105	91	92	124	100	99	130	112	134
Temporary resident	769	724	715	839	827	935	937	964	972	1,018	1,085

Table 7-2

**Doctoral degrees awarded, by field, citizenship, ethnicity, and race: 2008–18**

(Number)

Field, citizenship, ethnicity, and race	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Non-S&E	28,357	28,446	24,756	25,642	26,822	27,959	28,652	29,937	30,783	31,614	32,275
U.S. citizen and permanent resident	24,323	24,459	21,189	21,914	23,055	24,015	24,874	26,188	26,773	27,561	27,912
Hispanic or Latino <sup>a</sup>	1,248	1,321	1,125	1,198	1,380	1,448	1,619	1,815	1,947	2,053	2,175
Not Hispanic or Latino	23,075	23,138	20,064	20,716	21,675	22,567	23,255	24,373	24,826	25,508	25,737
American Indian or Alaska Native	142	162	121	124	133	154	131	147	142	161	154
Asian	na	na	na	1,052	1,176	1,258	1,222	1,349	1,323	1,384	1,411
Asian or Pacific Islander <sup>b</sup>	1,268	1,256	1,129	na	na	na	na	na	na	na	na
Black or African American	2,495	2,604	2,399	2,658	2,925	3,054	3,405	3,683	3,860	4,256	4,201
Native Hawaiian or Other Pacific Islander	na	na	na	22	35	47	37	50	61	55	52
White	17,122	16,974	14,392	14,707	15,169	15,798	16,125	16,659	16,900	16,911	17,088
More than one race <sup>c</sup>	na	na	na	155	165	246	266	343	435	519	561
Other or unknown race and ethnicity	2,048	2,142	2,023	1,998	2,072	2,010	2,069	2,142	2,105	2,222	2,270
Temporary resident	4,034	3,987	3,567	3,728	3,767	3,944	3,778	3,749	4,010	4,053	4,363

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

S&E = science and engineering.

<sup>a</sup> Hispanic or Latino may be any race; race categories exclude Hispanic origin.

<sup>b</sup> The Asian or Pacific Islander category included Asians, Native Hawaiians, and Other Pacific Islanders.

<sup>c</sup> In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race for the early years following 2011 is likely to be an undercount. Prior to the 2011 collection cycle, more than one race was reported under Other or unknown race or ethnicity.

**Note(s):**

Data in this table differ from doctoral degree data in this report that are based on the National Center for Science and Engineering Statistics' Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology, education, and medical and other health sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With the new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship. Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with 2011, data reflects the Office of Management and Budget's latest race and ethnicity categories. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs.

**Source(s):**

Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, unrevised provisional release data, accessed 14 January 2020.