

TABLE S2-11

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
All citizenships, races, and ethnicities																		
All fields	44,947	45,068	44,311	46,177	48,560	52,855	56,309	60,887	61,716	61,730	57,405	59,847	62,181	64,887	67,591	69,115	69,836	71,142
S&E	27,862	28,096	27,588	28,746	30,979	34,468	37,541	40,980	41,480	41,111	36,711	38,470	39,864	41,563	43,995	44,521	44,845	45,729
Engineering	5,384	5,561	5,196	5,282	5,931	6,548	7,402	8,066	8,110	7,915	7,812	8,478	8,873	9,489	10,135	10,406	10,358	10,547
Aerospace	203	202	193	178	190	205	209	234	232	257	228	237	275	310	336	310	332	342
Chemical	665	680	693	608	708	872	911	915	950	886	929	951	969	1,001	1,169	1,197	1,181	1,169
Civil	628	647	669	685	736	830	864	935	909	902	851	894	922	1,036	1,154	1,230	1,166	1,246
Electrical	1,515	1,527	1,361	1,402	1,634	1,782	2,124	2,380	2,279	2,090	2,169	2,352	2,475	2,469	2,642	2,651	2,620	2,669
Industrial	218	262	275	258	280	286	302	364	346	333	290	319	348	389	400	354	375	380
Materials	454	454	381	457	494	514	611	663	665	661	653	651	715	757	734	810	842	877
Mechanical	821	906	813	786	835	963	1,139	1,138	1,149	1,186	1,022	1,172	1,277	1,384	1,454	1,586	1,534	1,498
Other	880	883	811	908	1,054	1,096	1,242	1,437	1,580	1,600	1,670	1,902	1,892	2,143	2,246	2,268	2,308	2,366
Science	22,478	22,535	22,392	23,464	25,048	27,920	30,139	32,914	33,370	33,196	28,899	29,992	30,991	32,074	33,860	34,115	34,487	35,182
Natural sciences	14,296	14,084	14,385	15,340	16,773	19,329	21,563	24,052	24,466	24,649	20,809	21,313	22,152	22,808	24,098	24,165	24,774	25,403
Agricultural sciences	984	934	969	1,060	1,016	1,004	1,037	1,068	1,080	1,143	982	1,053	1,144	1,218	1,228	1,381	1,343	1,364
Biological sciences	4,992	4,750	4,596	5,212	5,491	5,925	6,138	6,703	7,319	7,429	7,571	7,596	7,817	7,825	8,207	7,890	7,858	8,003
Earth, atmospheric, and ocean sciences	579	542	562	544	540	572	600	727	683	724	713	687	737	794	861	827	912	890
Atmospheric sciences	87	70	68	78	77	96	95	87	106	110	100	120	125	137	126	146	142	153
Earth sciences	393	380	404	368	369	379	430	513	469	503	496	467	497	530	606	575	631	629
Oceanography	99	92	90	98	94	97	75	127	108	111	117	100	115	127	129	106	139	108
Mathematics and computer sciences	1,858	1,769	1,677	1,825	1,975	2,301	2,713	2,953	3,058	3,110	3,155	3,152	3,360	3,633	3,799	3,753	3,791	3,859
Computer sciences	777	768	750	816	910	1,121	1,416	1,597	1,696	1,574	1,561	1,562	1,690	1,809	1,935	1,951	1,936	1,934
Mathematics and statistics	1,081	1,001	927	1,009	1,065	1,180	1,297	1,356	1,362	1,536	1,594	1,590	1,670	1,824	1,864	1,802	1,855	1,925
Medical and other health sciences	2,439	2,643	3,334	3,321	4,406	5,907	7,089	8,392	8,121	7,827	4,062	4,265	4,505	4,635	5,056	5,343	5,792	6,201
Medical sciences	893	864	882	850	1,010	1,144	1,252	1,293	1,320	1,254	1,506	1,497	1,716	1,867	2,148	2,433	2,597	2,853
Other health sciences	1,546	1,779	2,452	2,471	3,396	4,763	5,837	7,099	6,801	6,573	2,556	2,768	2,789	2,768	2,908	2,910	3,195	3,348
Physical sciences	3,444	3,446	3,247	3,378	3,345	3,620	3,986	4,209	4,205	4,416	4,326	4,560	4,589	4,703	4,947	4,971	5,078	5,086
Astronomy	101	103	70	101	101	115	114	128	163	143	160	166	170	174	179	153	169	196
Chemistry	2,090	2,134	2,037	2,158	2,105	2,226	2,502	2,606	2,495	2,652	2,564	2,685	2,630	2,730	2,921	2,906	3,002	2,990
Physics	1,208	1,169	1,096	1,089	1,119	1,254	1,341	1,442	1,507	1,580	1,570	1,670	1,752	1,740	1,768	1,840	1,833	1,826
Other physical sciences	45	40	44	30	20	25	29	33	40	41	32	39	37	59	79	72	74	74
Social and behavioral sciences	8,182	8,451	8,007	8,124	8,275	8,591	8,576	8,862	8,904	8,547	8,090	8,679	8,839	9,266	9,762	9,950	9,713	9,779
Psychology	4,200	4,538	4,185	4,258	4,389	4,681	4,484	4,696	4,600	4,046	3,606	3,952	3,867	4,280	4,574	4,533	4,526	4,486
Social sciences	3,982	3,913	3,822	3,866	3,886	3,910	4,092	4,166	4,304	4,501	4,484	4,727	4,972	4,986	5,188	5,417	5,187	5,293
Anthropology	471	428	508	487	537	459	480	519	491	527	534	596	585	595	606	577	591	581
Area and ethnic studies	212	216	209	176	204	184	220	226	246	226	237	257	274	272	316	309	302	323

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Economics	1,001	1,016	961	967	978	1,111	1,057	1,107	1,172	1,172	1,120	1,152	1,271	1,227	1,212	1,283	1,298	1,325
History of science	23	21	20	27	20	28	34	27	34	19	31	27	24	29	41	31	31	30
Linguistics	202	193	152	201	194	172	216	219	215	240	203	235	249	237	240	266	259	229
Political science and public administration	1,019	1,047	992	1,055	1,001	1,049	1,098	1,093	1,104	1,244	1,312	1,314	1,402	1,507	1,537	1,622	1,518	1,557
Sociology	602	550	547	598	564	534	574	573	594	635	612	671	635	626	692	733	658	697
Other social sciences	452	442	433	355	388	373	413	402	448	438	435	475	532	493	544	596	530	551
Non-S&E	17,085	16,972	16,723	17,431	17,581	18,387	18,768	19,907	20,236	20,619	20,694	21,377	22,317	23,324	23,596	24,594	24,991	25,413
U.S. citizen or permanent resident																		
All fields	34,113	34,105	33,382	34,551	35,807	38,512	40,334	43,888	44,509	45,019	41,759	43,514	45,313	47,233	49,267	50,859	51,317	52,258
S&E	19,401	19,382	19,110	19,731	21,136	23,113	24,816	27,283	27,594	27,753	24,106	25,296	26,093	27,209	28,785	29,338	29,622	30,137
Engineering	2,656	2,562	2,261	2,237	2,347	2,452	2,714	2,994	3,180	3,374	3,507	3,713	3,926	4,123	4,451	4,620	4,602	4,574
Aerospace	125	101	77	72	73	91	80	108	103	137	122	130	163	169	208	194	208	214
Chemical	364	357	354	295	340	360	423	373	417	437	469	440	442	428	520	564	559	563
Civil	319	300	273	283	257	296	296	359	330	348	347	353	366	410	465	535	468	470
Electrical	641	587	506	478	531	567	560	645	704	711	757	815	847	813	822	855	810	746
Industrial	104	109	115	93	119	107	117	129	125	112	116	124	124	133	136	111	126	142
Materials	240	217	172	198	205	191	242	286	284	281	316	283	363	348	348	374	415	437
Mechanical	384	414	335	336	307	338	388	376	406	472	425	505	556	614	643	683	680	654
Other	479	477	429	482	515	502	608	718	811	876	955	1,063	1,065	1,208	1,309	1,304	1,336	1,348
Science	16,745	16,820	16,849	17,494	18,789	20,661	22,102	24,289	24,414	24,379	20,599	21,583	22,167	23,086	24,334	24,718	25,020	25,563
Natural sciences	9,779	9,682	10,048	10,765	11,872	13,661	15,139	17,116	17,248	17,699	14,237	14,614	15,112	15,546	16,333	16,579	17,091	17,659
Agricultural sciences	553	544	549	626	601	611	640	643	668	715	639	660	694	770	755	888	849	825
Biological sciences	3,724	3,579	3,443	3,901	4,118	4,330	4,377	4,713	5,091	5,310	5,447	5,513	5,705	5,710	5,957	5,720	5,740	5,930
Earth, atmospheric, and ocean sciences	409	362	368	376	356	360	389	481	436	477	481	472	498	540	583	566	610	622
Atmospheric sciences	57	40	43	46	45	54	45	48	58	68	50	83	75	91	85	99	96	106
Earth sciences	280	258	266	259	245	244	296	347	302	333	350	312	339	363	395	391	411	427
Oceanography	72	64	59	71	66	62	48	86	76	76	81	77	84	86	103	76	103	89
Mathematics and computer sciences	990	920	848	926	963	1,040	1,134	1,325	1,338	1,518	1,645	1,621	1,671	1,761	1,823	1,764	1,798	1,827
Computer sciences	402	395	410	413	455	500	551	680	667	730	782	772	819	849	875	864	816	845
Mathematics and statistics	588	525	438	513	508	540	583	645	671	788	863	849	852	912	948	900	982	982
Medical and other health sciences	1,955	2,121	2,796	2,876	3,865	5,284	6,416	7,688	7,408	7,193	3,536	3,696	3,835	3,991	4,392	4,667	5,078	5,440
Medical sciences	615	582	568	577	655	735	816	862	910	848	1,142	1,108	1,248	1,393	1,656	1,945	2,090	2,319
Other health sciences	1,340	1,539	2,228	2,299	3,210	4,549	5,600	6,826	6,498	6,345	2,394	2,588	2,587	2,598	2,736	2,722	2,988	3,121
Physical sciences	2,148	2,156	2,044	2,060	1,969	2,036	2,183	2,266	2,307	2,486	2,489	2,652	2,709	2,774	2,823	2,974	3,016	3,015
Astronomy	76	78	53	79	75	73	73	89	117	98	119	108	124	120	131	118	124	140
Chemistry	1,336	1,383	1,355	1,374	1,321	1,366	1,461	1,464	1,414	1,586	1,542	1,592	1,584	1,653	1,703	1,787	1,806	1,838

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(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Physics	708	677	604	591	562	585	635	696	754	781	808	928	985	970	951	1,028	1,041	1,004
Other physical sciences	28	18	32	16	11	12	14	17	22	21	20	24	16	31	38	41	45	33
Social and behavioral sciences	6,966	7,138	6,801	6,729	6,917	7,000	6,963	7,173	7,166	6,680	6,362	6,969	7,055	7,540	8,001	8,139	7,929	7,904
Psychology	4,042	4,381	4,042	4,059	4,191	4,452	4,230	4,450	4,359	3,770	3,334	3,694	3,616	4,017	4,320	4,261	4,292	4,217
Social sciences	2,924	2,757	2,759	2,670	2,726	2,548	2,733	2,723	2,807	2,910	3,028	3,275	3,439	3,523	3,681	3,878	3,637	3,687
Anthropology	409	356	430	420	466	392	425	433	416	431	444	505	490	508	507	489	486	485
Area and ethnic studies	180	180	180	149	168	154	187	202	190	178	191	214	220	240	265	263	254	262
Economics	474	422	419	377	396	368	371	369	438	408	459	456	538	535	500	566	537	538
History of science	18	20	16	24	14	21	28	16	29	12	25	24	17	24	29	19	25	25
Linguistics	105	100	84	102	105	95	114	123	114	145	118	146	139	131	139	155	152	140
Political science and public administration	856	859	821	827	809	806	827	811	822	919	967	1,013	1,086	1,181	1,234	1,284	1,221	1,223
Sociology	510	473	474	492	460	436	466	459	477	499	504	555	536	517	580	623	552	591
Other social sciences	372	347	335	279	308	276	315	310	321	318	320	362	413	387	427	479	410	423
Non-S&E	14,712	14,723	14,272	14,820	14,671	15,399	15,518	16,605	16,915	17,266	17,653	18,218	19,220	20,024	20,482	21,521	21,695	22,121
Hispanic or Latino ^a																		
All fields	1,382	1,594	1,503	1,609	1,739	1,914	1,980	2,138	2,410	2,419	2,294	2,457	2,707	2,938	3,239	3,554	3,891	3,929
S&E	775	905	840	878	1,057	1,121	1,190	1,301	1,499	1,335	1,312	1,397	1,483	1,641	1,828	2,019	2,240	2,181
Engineering	86	88	88	106	101	98	105	138	130	153	196	182	191	202	247	286	285	306
Aerospace	2	7	3	4	3	4	0	7	3	8	7	8	9	11	16	8	15	9
Chemical	18	8	17	13	9	20	20	16	20	22	33	23	30	17	28	31	39	33
Civil	11	14	6	14	21	13	16	25	14	21	26	18	27	24	28	40	35	41
Electrical	17	17	26	22	19	14	11	33	27	27	42	41	36	34	41	54	49	52
Industrial	3	4	9	2	2	4	12	12	9	6	11	10	5	10	12	11	9	9
Materials	7	10	5	9	6	13	12	9	7	10	19	9	14	16	26	26	31	32
Mechanical	10	16	11	15	13	14	12	13	17	28	23	31	28	34	34	35	40	48
Other	18	12	11	27	28	16	22	23	33	31	35	42	42	56	62	81	67	82
Science	689	817	752	772	956	1,023	1,085	1,163	1,369	1,182	1,116	1,215	1,292	1,439	1,581	1,733	1,955	1,875
Natural sciences	319	386	342	382	468	503	573	619	803	727	674	692	741	820	874	1,014	1,092	1,102
Agricultural sciences	13	21	20	16	17	14	36	15	18	21	33	45	41	45	49	47	58	54
Biological sciences	149	155	139	171	186	216	212	226	274	282	326	324	329	393	379	425	454	440
Earth, atmospheric, and ocean sciences	9	10	4	8	10	11	12	18	17	14	16	14	18	24	21	31	27	38
Atmospheric sciences	1	0	1	1	0	1	2	2	2	0	0	1	2	2	3	2	8	7
Earth sciences	6	6	1	3	10	9	10	12	13	12	13	11	11	19	13	25	16	23
Oceanography	2	4	2	4	0	1	0	4	2	2	3	2	5	3	5	4	3	8
Mathematics and computer sciences	25	29	28	28	41	38	33	38	45	58	48	48	65	74	66	77	98	91
Computer sciences	13	12	19	11	18	17	6	17	16	23	17	19	26	40	31	42	36	45

TABLE S2-11

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(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Mathematics and statistics	12	17	9	17	23	21	27	21	29	35	31	29	39	34	35	35	62	46
Medical and other health sciences	56	90	82	94	141	148	187	230	337	237	143	138	156	151	208	280	296	305
Medical sciences	16	28	22	29	31	30	34	51	84	38	63	67	65	79	100	150	135	148
Other health sciences	40	62	60	65	110	118	153	179	253	199	80	71	91	72	108	130	161	157
Physical sciences	67	81	69	65	73	76	93	92	112	115	108	123	132	133	151	154	159	174
Astronomy	3	4	1	2	2	2	1	5	3	4	4	5	5	3	3	9	6	7
Chemistry	45	59	48	44	58	57	70	65	89	86	72	79	76	89	100	100	109	109
Physics	19	18	19	19	13	16	21	22	20	25	32	37	51	41	48	44	43	57
Other physical sciences	0	0	1	0	0	1	1	0	0	0	0	2	0	0	0	1	1	1
Social and behavioral sciences	370	431	410	390	488	520	512	544	566	455	442	523	551	619	707	719	863	773
Psychology	267	308	297	247	339	388	367	417	420	316	277	335	342	408	483	488	590	530
Social sciences	103	123	113	143	149	132	145	127	146	139	165	188	209	211	224	231	273	243
Anthropology	8	19	20	29	37	20	25	18	29	34	27	40	36	36	51	33	40	32
Area and ethnic studies	7	9	10	8	13	12	13	14	11	8	16	14	21	24	23	26	34	33
Economics	18	18	13	20	25	22	21	22	16	18	22	16	17	37	23	35	37	22
History of science	1	2	0	0	0	1	2	1	0	0	2	1	1	0	2	1	1	0
Linguistics	1	5	3	4	2	3	4	3	3	4	3	3	3	5	7	4	13	9
Political science and public administration	28	34	35	36	43	35	35	34	36	37	46	50	58	49	61	54	73	64
Sociology	24	24	22	37	24	29	37	23	38	22	29	49	53	40	34	54	40	67
Other social sciences	16	12	10	9	5	10	8	12	13	16	20	15	20	20	23	24	35	16
Non-S&E	607	689	663	731	682	793	790	837	911	1,084	982	1,060	1,224	1,297	1,411	1,535	1,651	1,748
Not Hispanic or Latino																		
All fields	32,731	32,511	31,879	32,942	34,068	36,598	38,354	41,750	42,099	42,600	39,465	41,057	42,606	44,295	46,028	47,305	47,426	48,329
S&E	18,626	18,477	18,270	18,853	20,079	21,992	23,626	25,982	26,095	26,418	22,794	23,899	24,610	25,568	26,957	27,319	27,382	27,956
Engineering	2,570	2,474	2,173	2,131	2,246	2,354	2,609	2,856	3,050	3,221	3,311	3,531	3,735	3,921	4,204	4,334	4,317	4,268
Aerospace	123	94	74	68	70	87	80	101	100	129	115	122	154	158	192	186	193	205
Chemical	346	349	337	282	331	340	403	357	397	415	436	417	412	411	492	533	520	530
Civil	308	286	267	269	236	283	280	334	316	327	321	335	339	386	437	495	433	429
Electrical	624	570	480	456	512	553	549	612	677	684	715	774	811	779	781	801	761	694
Industrial	101	105	106	91	117	103	105	117	116	106	105	114	119	123	124	100	117	133
Materials	233	207	167	189	199	178	230	277	277	271	297	274	349	332	322	348	384	405
Mechanical	374	398	324	321	294	324	376	363	389	444	402	474	528	580	609	648	640	606
Other	461	465	418	455	487	486	586	695	778	845	920	1,021	1,023	1,152	1,247	1,223	1,269	1,266
Science	16,056	16,003	16,097	16,722	17,833	19,638	21,017	23,126	23,045	23,197	19,483	20,368	20,875	21,647	22,753	22,985	23,065	23,688
Natural sciences	9,460	9,296	9,706	10,383	11,404	13,158	14,566	16,497	16,445	16,972	13,563	13,922	14,371	14,726	15,459	15,565	15,999	16,557
Agricultural sciences	540	523	529	610	584	597	604	628	650	694	606	615	653	725	706	841	791	771

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(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Biological sciences	3,575	3,424	3,304	3,730	3,932	4,114	4,165	4,487	4,817	5,028	5,121	5,189	5,376	5,317	5,578	5,295	5,286	5,490
Earth, atmospheric, and ocean sciences	400	352	364	368	346	349	377	463	419	463	465	458	480	516	562	535	583	584
Atmospheric sciences	56	40	42	45	45	53	43	46	56	68	50	82	73	89	82	97	88	99
Earth sciences	274	252	265	256	235	235	286	335	289	321	337	301	328	344	382	366	395	404
Oceanography	70	60	57	67	66	61	48	82	74	74	78	75	79	83	98	72	100	81
Mathematics and computer sciences	965	891	820	898	922	1,002	1,101	1,287	1,293	1,460	1,597	1,573	1,606	1,687	1,757	1,687	1,700	1,736
Computer sciences	389	383	391	402	437	483	545	663	651	707	765	753	793	809	844	822	780	800
Mathematics and statistics	576	508	429	496	485	519	556	624	642	753	832	820	813	878	913	865	920	936
Medical and other health sciences	1,899	2,031	2,714	2,782	3,724	5,136	6,229	7,458	7,071	6,956	3,393	3,558	3,679	3,840	4,184	4,387	4,782	5,135
Medical sciences	599	554	546	548	624	705	782	811	826	810	1,079	1,041	1,183	1,314	1,556	1,795	1,955	2,171
Other health sciences	1,300	1,477	2,168	2,234	3,100	4,431	5,447	6,647	6,245	6,146	2,314	2,517	2,496	2,526	2,628	2,592	2,827	2,964
Physical sciences	2,081	2,075	1,975	1,995	1,896	1,960	2,090	2,174	2,195	2,371	2,381	2,529	2,577	2,641	2,672	2,820	2,857	2,841
Astronomy	73	74	52	77	73	71	72	84	114	94	115	103	119	117	128	109	118	133
Chemistry	1,291	1,324	1,307	1,330	1,263	1,309	1,391	1,399	1,325	1,500	1,470	1,513	1,508	1,564	1,603	1,687	1,697	1,729
Physics	689	659	585	572	549	569	614	674	734	756	776	891	934	929	903	984	998	947
Other physical sciences	28	18	31	16	11	11	13	17	22	21	20	22	16	31	38	40	44	32
Social and behavioral sciences	6,596	6,707	6,391	6,339	6,429	6,480	6,451	6,629	6,600	6,225	5,920	6,446	6,504	6,921	7,294	7,420	7,066	7,131
Psychology	3,775	4,073	3,745	3,812	3,852	4,064	3,863	4,033	3,939	3,454	3,057	3,359	3,274	3,609	3,837	3,773	3,702	3,687
Social sciences	2,821	2,634	2,646	2,527	2,577	2,416	2,588	2,596	2,661	2,771	2,863	3,087	3,230	3,312	3,457	3,647	3,364	3,444
Anthropology	401	337	410	391	429	372	400	415	387	397	417	465	454	472	456	456	446	453
Area and ethnic studies	173	171	170	141	155	142	174	188	179	170	175	200	199	216	242	237	220	229
Economics	456	404	406	357	371	346	350	347	422	390	437	440	521	498	477	531	500	516
History of science	17	18	16	24	14	20	26	15	29	12	23	23	16	24	27	18	24	25
Linguistics	104	95	81	98	103	92	110	120	111	141	115	143	136	126	132	151	139	131
Political science and public administration	828	825	786	791	766	771	792	777	786	882	921	963	1,028	1,132	1,173	1,230	1,148	1,159
Sociology	486	449	452	455	436	407	429	436	439	477	475	506	483	477	546	569	512	524
Other social sciences	356	335	325	270	303	266	307	298	308	302	300	347	393	367	404	455	375	407
Non-S&E	14,105	14,034	13,609	14,089	13,989	14,606	14,728	15,768	16,004	16,182	16,671	17,158	17,996	18,727	19,071	19,986	20,044	20,373
American Indian or Alaska Native																		
All fields	155	170	175	185	206	224	214	232	244	282	224	232	232	261	241	264	246	250
S&E	82	88	84	106	117	109	111	128	139	154	121	122	117	130	131	137	127	114
Engineering	5	10	6	12	8	6	7	8	15	19	10	15	11	7	13	12	10	12
Aerospace	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0
Chemical	0	3	1	1	1	0	1	1	2	5	0	4	1	1	1	4	0	1
Civil	1	0	1	0	1	0	0	3	2	3	1	1	2	0	0	2	1	1
Electrical	1	3	0	3	3	0	2	1	2	2	4	0	1	2	3	1	2	0

TABLE S2-11

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

(Number)

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

TABLE S2-11

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
History of science	na	na	na	na	na	na	na	na	na	na	na	1	1	0	2	1	0	2
Linguistics	na	na	na	na	na	na	na	na	na	na	na	14	19	9	8	12	9	17
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	58	57	70	51	59	67	71
Sociology	na	na	na	na	na	na	na	na	na	na	na	35	31	22	37	35	38	32
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	11	19	11	23	22	10	27
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	792	874	964	927	995	963	959
Asian or Pacific Islander ^b																		
All fields	2,297	2,440	2,184	2,259	2,464	2,695	2,996	3,251	3,201	3,203	3,183	na	na	na	na	na	na	na
S&E	1,714	1,767	1,606	1,651	1,816	2,071	2,249	2,414	2,393	2,394	2,325	na	na	na	na	na	na	na
Engineering	380	398	357	292	346	372	470	508	501	504	517	na	na	na	na	na	na	na
Aerospace	9	11	3	8	8	8	11	8	9	16	12	na	na	na	na	na	na	na
Chemical	50	49	65	44	64	43	70	63	55	56	65	na	na	na	na	na	na	na
Civil	37	33	30	19	25	40	44	50	38	35	37	na	na	na	na	na	na	na
Electrical	120	127	111	112	97	128	121	156	174	156	154	na	na	na	na	na	na	na
Industrial	13	14	10	12	14	17	10	15	17	15	15	na	na	na	na	na	na	na
Materials	27	26	22	14	27	17	38	55	27	32	43	na	na	na	na	na	na	na
Mechanical	67	76	49	40	52	42	66	52	45	50	46	na	na	na	na	na	na	na
Other	57	62	67	43	59	77	110	109	136	144	145	na	na	na	na	na	na	na
Science	1,334	1,369	1,249	1,359	1,470	1,699	1,779	1,906	1,892	1,890	1,808	na	na	na	na	na	na	na
Natural sciences	979	982	914	1,000	1,086	1,313	1,361	1,451	1,442	1,461	1,393	na	na	na	na	na	na	na
Agricultural sciences	26	24	17	28	28	22	25	24	34	34	32	na	na	na	na	na	na	na
Biological sciences	429	399	388	475	489	508	477	563	575	567	650	na	na	na	na	na	na	na
Earth, atmospheric, and ocean sciences	15	25	12	15	12	16	23	11	17	15	15	na	na	na	na	na	na	na
Atmospheric sciences	3	5	1	6	4	6	6	1	1	1	2	na	na	na	na	na	na	na
Earth sciences	12	19	8	7	8	6	16	8	12	10	11	na	na	na	na	na	na	na
Oceanography	0	1	3	2	0	4	1	2	4	4	2	na	na	na	na	na	na	na
Mathematics and computer sciences	127	108	98	98	110	142	155	190	140	194	208	na	na	na	na	na	na	na
Computer sciences	56	53	72	55	62	88	92	111	87	116	124	na	na	na	na	na	na	na
Mathematics and statistics	71	55	26	43	48	54	63	79	53	78	84	na	na	na	na	na	na	na
Medical and other health sciences	196	211	229	214	276	416	461	441	460	447	271	na	na	na	na	na	na	na
Medical sciences	69	69	67	67	69	107	124	104	107	102	136	na	na	na	na	na	na	na
Other health sciences	127	142	162	147	207	309	337	337	353	345	135	na	na	na	na	na	na	na
Physical sciences	186	215	170	170	171	209	220	222	216	204	217	na	na	na	na	na	na	na
Astronomy	8	4	3	5	7	6	6	6	4	3	4	na	na	na	na	na	na	na
Chemistry	124	138	120	111	127	139	160	155	150	148	151	na	na	na	na	na	na	na
Physics	52	73	45	53	37	62	54	60	57	53	60	na	na	na	na	na	na	na

TABLE S2-11

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Other physical sciences	2	0	2	1	0	2	0	1	5	0	2	na	na	na	na	na	na	na
Social and behavioral sciences	355	387	335	359	384	386	418	455	450	429	415	na	na	na	na	na	na	na
Psychology	181	209	177	195	224	221	242	265	252	207	197	na	na	na	na	na	na	na
Social sciences	174	178	158	164	160	165	176	190	198	222	218	na	na	na	na	na	na	na
Anthropology	16	19	13	22	23	17	23	23	29	18	19	na	na	na	na	na	na	na
Area and ethnic studies	7	11	13	17	18	13	14	16	9	10	21	na	na	na	na	na	na	na
Economics	44	42	44	38	33	46	47	50	49	48	53	na	na	na	na	na	na	na
History of science	0	0	0	1	0	1	2	1	1	0	0	na	na	na	na	na	na	na
Linguistics	15	13	10	10	10	10	20	24	9	27	12	na	na	na	na	na	na	na
Political science and public administration	44	46	41	42	38	41	38	42	45	60	71	na	na	na	na	na	na	na
Sociology	27	33	25	25	25	26	21	23	38	38	28	na	na	na	na	na	na	na
Other social sciences	21	14	12	9	13	11	11	11	18	21	14	na	na	na	na	na	na	na
Non-S&E	583	673	578	608	648	624	747	837	808	809	858	na	na	na	na	na	na	na
Black or African American																		
All fields	2,147	2,091	2,268	2,362	2,725	2,854	2,884	3,452	3,478	3,645	3,372	3,759	4,065	4,331	4,780	5,050	5,265	5,709
S&E	821	838	871	893	1,034	1,071	1,204	1,287	1,352	1,451	1,239	1,426	1,486	1,637	1,816	1,855	2,024	2,151
Engineering	91	98	80	94	99	101	110	117	128	139	154	141	175	187	172	165	197	182
Aerospace	4	1	1	1	0	1	4	2	2	3	3	4	9	4	2	5	4	6
Chemical	8	15	10	8	7	9	13	18	17	11	14	15	11	13	17	11	18	15
Civil	8	9	11	11	6	10	9	10	9	9	12	14	13	14	19	26	17	23
Electrical	23	28	17	19	33	28	20	24	21	30	27	32	43	34	40	31	44	27
Industrial	6	5	6	6	10	6	11	8	18	10	16	13	18	23	10	10	9	21
Materials	5	5	4	9	6	7	11	8	13	15	18	10	14	20	12	8	15	12
Mechanical	24	17	16	12	18	12	13	16	23	19	15	13	21	29	17	21	21	16
Other	13	18	15	28	19	28	29	31	25	42	49	40	46	50	55	53	69	62
Science	730	740	791	799	935	970	1,094	1,170	1,224	1,312	1,085	1,285	1,311	1,450	1,644	1,690	1,827	1,969
Natural sciences	316	308	344	366	459	492	605	664	754	831	661	740	805	862	942	933	1,117	1,201
Agricultural sciences	20	16	16	26	20	19	28	24	26	28	47	21	38	33	32	31	38	43
Biological sciences	106	101	112	110	159	152	173	173	229	252	206	249	267	284	271	219	245	278
Earth, atmospheric, and ocean sciences	3	3	3	11	5	3	3	7	7	6	5	5	15	11	12	11	11	11
Atmospheric sciences	1	0	1	2	1	0	2	2	1	2	0	1	3	4	0	4	6	1
Earth sciences	2	3	2	6	3	2	0	3	5	4	5	3	10	5	9	6	4	7
Oceanography	0	0	0	3	1	1	1	2	1	0	0	1	2	2	3	1	1	3
Mathematics and computer sciences	28	26	35	36	26	37	41	51	46	57	57	54	60	79	79	77	105	83
Computer sciences	15	9	21	17	18	19	21	30	24	30	33	31	39	52	52	57	69	62
Mathematics and statistics	13	17	14	19	8	18	20	21	22	27	24	23	21	27	27	20	36	21

TABLE S2-11

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Medical and other health sciences	94	90	109	118	185	229	305	323	369	410	266	325	346	360	441	488	619	698	
Medical sciences	36	30	29	36	46	62	74	75	73	78	106	132	156	157	233	262	335	415	
Other health sciences	58	60	80	82	139	167	231	248	296	332	160	193	190	203	208	226	284	283	
Physical sciences	65	72	69	65	64	52	55	86	77	78	80	86	79	95	107	107	99	88	
Astronomy	1	0	1	1	1	0	1	2	0	0	2	1	0	0	1	1	1	1	
Chemistry	45	56	46	47	51	37	43	64	62	66	59	67	58	78	81	88	72	66	
Physics	19	16	22	17	11	15	11	20	15	11	18	17	21	15	21	18	24	19	
Other physical sciences	0	0	0	0	1	0	0	0	0	1	1	1	0	2	4	0	2	2	
Social and behavioral sciences	414	432	447	433	476	478	489	506	470	481	424	545	506	588	702	757	710	768	
Psychology	214	240	231	241	281	275	256	278	271	259	212	275	238	299	362	414	406	388	
Social sciences	200	192	216	192	195	203	233	228	199	222	212	270	268	289	340	343	304	380	
Anthropology	20	12	25	23	26	24	21	19	18	22	21	18	14	20	21	17	21	30	
Area and ethnic studies	17	25	28	17	22	21	36	38	36	33	30	30	36	38	42	39	39	49	
Economics	22	9	19	11	19	9	18	18	15	8	10	19	15	21	18	11	17	18	
History of science	0	1	1	0	0	1	1	1	0	1	0	0	0	1	1	1	0	0	
Linguistics	1	4	1	0	4	2	5	0	2	2	2	5	3	2	4	3	3	2	
Political science and public administration	70	79	78	79	67	83	90	85	67	94	80	121	126	143	176	184	146	191	
Sociology	50	42	44	51	40	44	45	47	45	48	51	47	48	51	55	65	51	66	
Other social sciences	20	20	20	11	17	19	17	20	16	14	18	30	26	13	23	23	27	24	
Non-S&E	1,326	1,253	1,397	1,469	1,691	1,783	1,680	2,165	2,126	2,194	2,133	2,333	2,579	2,694	2,964	3,195	3,241	3,558	
Native Hawaiian or Other Pacific Islander																			
All fields	na	na	na	na	na	na	na	na	na	na	na	na	55	55	70	70	76	91	82
S&E	na	na	na	na	na	na	na	na	na	na	na	na	37	23	27	44	34	40	37
Engineering	na	na	na	na	na	na	na	na	na	na	na	na	4	2	7	8	1	3	5
Aerospace	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0	0	0
Chemical	na	na	na	na	na	na	na	na	na	na	na	na	1	0	1	0	0	0	1
Civil	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	1	0	0	0
Electrical	na	na	na	na	na	na	na	na	na	na	na	na	0	0	2	1	0	1	0
Industrial	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Materials	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1	1	1
Mechanical	na	na	na	na	na	na	na	na	na	na	na	na	0	1	1	1	0	0	1
Other	na	na	na	na	na	na	na	na	na	na	na	na	3	1	3	4	0	1	2
Science	na	na	na	na	na	na	na	na	na	na	na	na	33	21	20	36	33	37	32
Natural sciences	na	na	na	na	na	na	na	na	na	na	na	na	26	20	12	28	25	24	23
Agricultural sciences	na	na	na	na	na	na	na	na	na	na	na	na	1	0	1	1	1	0	0
Biological sciences	na	na	na	na	na	na	na	na	na	na	na	na	12	10	7	12	8	11	11

TABLE S2-11

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Earth, atmospheric, and ocean sciences	na	na	na	na	na	na	na	na	na	na	na	na	0	1	0	0	1	0	0
Atmospheric sciences	na	na	na	na	na	na	na	na	na	na	na	na	0	1	0	0	0	0	0
Earth sciences	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	1	0	0
Oceanography	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Mathematics and computer sciences	na	na	na	na	na	na	na	na	na	na	na	na	3	2	0	1	2	1	1
Computer sciences	na	na	na	na	na	na	na	na	na	na	na	na	2	0	0	0	0	1	1
Mathematics and statistics	na	na	na	na	na	na	na	na	na	na	na	na	1	2	0	1	2	0	0
Medical and other health sciences	na	na	na	na	na	na	na	na	na	na	na	na	4	3	4	11	8	10	10
Medical sciences	na	na	na	na	na	na	na	na	na	na	na	na	2	2	1	6	2	7	4
Other health sciences	na	na	na	na	na	na	na	na	na	na	na	na	2	1	3	5	6	3	6
Physical sciences	na	na	na	na	na	na	na	na	na	na	na	na	6	4	0	3	5	2	1
Astronomy	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Chemistry	na	na	na	na	na	na	na	na	na	na	na	na	4	4	0	1	3	0	1
Physics	na	na	na	na	na	na	na	na	na	na	na	na	2	0	0	2	2	1	0
Other physical sciences	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	1	0
Social and behavioral sciences	na	na	na	na	na	na	na	na	na	na	na	na	7	1	8	8	8	13	9
Psychology	na	na	na	na	na	na	na	na	na	na	na	na	1	0	4	6	3	10	4
Social sciences	na	na	na	na	na	na	na	na	na	na	na	na	6	1	4	2	5	3	5
Anthropology	na	na	na	na	na	na	na	na	na	na	na	na	1	0	1	0	1	0	1
Area and ethnic studies	na	na	na	na	na	na	na	na	na	na	na	na	1	0	0	1	2	2	0
Economics	na	na	na	na	na	na	na	na	na	na	na	na	1	0	0	0	0	0	0
History of science	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Linguistics	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	0
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	na	1	1	3	1	2	1	3
Sociology	na	na	na	na	na	na	na	na	na	na	na	na	2	0	0	0	0	0	0
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	na	0	0	0	0	0	0	1
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	na	18	32	43	26	42	51	45
White																			
All fields	26,471	25,865	25,319	25,864	26,425	28,152	29,114	31,355	31,342	31,526	28,670	29,455	30,424	31,614	32,622	33,218	33,202	33,281	
S&E	14,975	14,663	14,620	14,926	15,765	17,082	18,057	19,929	19,824	20,004	16,736	17,346	17,958	18,615	19,552	19,714	19,620	19,875	
Engineering	1,948	1,844	1,592	1,571	1,633	1,696	1,818	1,973	2,112	2,235	2,286	2,393	2,592	2,701	2,928	3,023	2,967	2,882	
Aerospace	108	79	65	48	61	73	60	81	81	99	90	93	112	128	156	150	153	155	
Chemical	275	271	240	209	242	275	297	250	296	312	331	307	296	300	357	383	378	373	
Civil	238	225	205	216	188	209	208	245	231	241	235	228	257	295	324	347	324	298	
Electrical	436	374	325	282	331	346	346	367	397	415	426	468	486	474	453	494	469	398	
Industrial	79	79	83	67	88	73	77	82	71	71	66	77	78	76	89	64	82	73	

TABLE S2-11

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Materials	191	170	135	150	159	136	163	191	209	194	208	183	253	234	233	263	269	292
Mechanical	261	285	236	254	200	242	274	265	282	320	310	343	402	428	437	484	477	437
Other	360	361	303	345	364	342	393	492	545	583	620	694	708	766	879	838	815	856
Science	13,027	12,819	13,028	13,355	14,132	15,386	16,239	17,956	17,712	17,769	14,450	14,953	15,366	15,914	16,624	16,691	16,653	16,993
Natural sciences	7,621	7,387	7,863	8,263	9,052	10,324	11,300	12,877	12,716	13,094	10,033	10,333	10,605	10,919	11,446	11,501	11,702	11,968
Agricultural sciences	470	453	474	522	502	519	526	541	534	576	480	509	519	586	577	673	633	611
Biological sciences	2,845	2,689	2,613	2,912	3,047	3,172	3,206	3,426	3,608	3,782	3,759	3,787	3,859	3,860	4,067	3,886	3,881	3,951
Earth, atmospheric, and ocean sciences	344	301	332	318	311	300	328	400	349	390	395	385	404	450	483	444	480	486
Atmospheric sciences	50	33	40	36	37	43	30	39	49	61	43	67	61	75	77	82	73	82
Earth sciences	230	210	242	224	212	204	258	289	235	263	280	258	274	302	322	302	325	340
Oceanography	64	58	50	58	62	53	40	72	65	66	72	60	69	73	84	60	82	64
Mathematics and computer sciences	746	687	624	671	697	706	784	895	936	1,042	1,140	1,141	1,162	1,183	1,262	1,211	1,172	1,212
Computer sciences	289	287	264	282	309	308	356	437	446	483	506	514	526	531	554	535	516	529
Mathematics and statistics	457	400	360	389	388	398	428	458	490	559	634	627	636	652	708	676	656	683
Medical and other health sciences	1,544	1,643	2,247	2,249	2,995	4,101	4,811	5,948	5,604	5,452	2,458	2,598	2,703	2,799	3,055	3,155	3,318	3,505
Medical sciences	465	417	422	398	471	475	531	578	583	553	736	657	774	858	971	1,170	1,216	1,273
Other health sciences	1,079	1,226	1,825	1,851	2,524	3,626	4,280	5,370	5,021	4,899	1,722	1,941	1,929	1,941	2,084	1,985	2,102	2,232
Physical sciences	1,672	1,614	1,573	1,591	1,500	1,526	1,645	1,667	1,685	1,852	1,801	1,913	1,958	2,041	2,002	2,132	2,218	2,203
Astronomy	55	52	41	61	63	62	57	63	94	85	97	84	105	98	100	80	92	115
Chemistry	1,030	1,028	1,031	1,078	986	1,021	1,080	1,071	993	1,145	1,095	1,131	1,104	1,197	1,178	1,243	1,307	1,308
Physics	561	516	473	437	442	435	496	519	582	603	592	681	734	721	695	774	788	759
Other physical sciences	26	18	28	15	9	8	12	14	16	19	17	17	15	25	29	35	31	21
Social and behavioral sciences	5,406	5,432	5,165	5,092	5,080	5,062	4,939	5,079	4,996	4,675	4,417	4,620	4,761	4,995	5,178	5,190	4,951	5,025
Psychology	3,186	3,373	3,104	3,145	3,057	3,241	3,034	3,171	3,036	2,664	2,342	2,471	2,435	2,633	2,799	2,661	2,566	2,647
Social sciences	2,220	2,059	2,061	1,947	2,023	1,821	1,905	1,908	1,960	2,011	2,075	2,149	2,326	2,362	2,379	2,529	2,385	2,378
Anthropology	332	283	326	313	349	296	325	330	299	308	318	365	359	349	330	331	341	336
Area and ethnic studies	123	116	106	84	93	84	91	103	109	95	92	113	106	129	122	138	131	136
Economics	349	325	318	272	286	244	237	233	292	281	322	279	375	355	331	372	359	357
History of science	11	15	12	20	13	17	19	13	20	11	21	20	12	22	18	16	22	20
Linguistics	82	66	65	74	82	73	74	86	95	99	89	104	99	95	100	110	106	98
Political science and public administration	659	636	625	596	605	591	580	573	578	622	648	627	710	753	781	817	769	761
Sociology	375	343	340	356	352	301	337	326	321	354	355	375	355	360	391	401	362	355
Other social sciences	289	275	269	232	243	215	242	244	246	241	230	266	310	299	306	344	295	315
Non-S&E	11,496	11,202	10,699	10,938	10,660	11,070	11,057	11,426	11,518	11,522	11,934	12,109	12,466	12,999	13,070	13,504	13,582	13,406
More than one race ^c																		
All fields	na	na	na	na	na	na	na	na	na	na	na	337	397	522	643	777	980	1,161

TABLE S2-11

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

(Number)

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

TABLE S2-11

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Linguistics	na	na	na	na	na	na	na	na	na	na	na	0	2	4	2	5	5	3
Political science and public administration	na	na	na	na	na	na	na	na	na	na	na	9	7	15	10	19	12	24
Sociology	na	na	na	na	na	na	na	na	na	na	na	3	7	9	8	11	9	16
Other social sciences	na	na	na	na	na	na	na	na	na	na	na	1	3	4	6	4	5	11
Non-S&E	na	na	na	na	na	na	na	na	na	na	na	135	145	194	209	275	344	385
Other or unknown race and ethnicity																		
All fields	1,661	1,945	1,933	2,272	2,248	2,673	3,146	3,460	3,834	3,944	4,016	4,094	4,091	4,066	4,232	4,256	4,075	4,055
S&E	1,034	1,121	1,089	1,277	1,347	1,659	2,005	2,224	2,387	2,415	2,373	2,433	2,306	2,364	2,467	2,408	2,331	2,171
Engineering	146	124	138	162	160	179	204	250	294	324	344	347	340	371	368	382	363	390
Aerospace	2	3	5	11	1	4	5	10	7	11	10	7	11	7	11	14	12	13
Chemical	13	11	21	20	17	13	22	25	27	31	26	30	36	34	37	50	22	39
Civil	24	19	20	23	16	24	19	26	36	39	36	43	29	37	43	47	40	43
Electrical	44	38	27	40	48	51	60	64	83	81	104	90	88	84	90	100	70	91
Industrial	3	7	7	6	5	7	6	12	9	10	7	10	12	12	6	6	8	12
Materials	10	6	5	16	7	17	18	23	27	29	27	27	20	21	24	19	34	26
Mechanical	20	18	21	14	23	26	21	29	36	53	29	49	52	52	57	47	47	54
Other	30	22	32	32	43	37	53	61	69	70	105	91	92	124	100	99	130	112
Science	888	997	951	1,115	1,187	1,480	1,801	1,974	2,093	2,091	2,029	2,086	1,966	1,993	2,099	2,026	1,968	1,781
Natural sciences	510	586	549	715	754	973	1,250	1,443	1,459	1,503	1,413	1,333	1,292	1,230	1,319	1,244	1,223	1,145
Agricultural sciences	22	29	22	33	27	33	24	36	48	51	41	46	49	65	53	79	56	54
Biological sciences	187	221	177	215	221	264	290	302	385	400	485	476	489	423	467	381	366	345
Earth, atmospheric, and ocean sciences	32	23	17	23	15	27	23	43	44	50	48	45	33	33	36	51	45	41
Atmospheric sciences	2	2	0	1	2	3	5	4	5	4	4	7	2	7	2	5	4	5
Earth sciences	25	20	13	18	10	21	12	34	35	43	40	28	25	20	30	35	36	32
Oceanography	5	1	4	4	3	3	6	5	4	3	4	10	6	6	4	11	5	4
Mathematics and computer sciences	62	67	61	91	88	117	115	147	169	162	187	145	169	178	198	176	174	167
Computer sciences	29	33	33	47	47	68	70	82	94	76	99	72	94	95	114	98	86	92
Mathematics and statistics	33	34	28	44	41	49	45	65	75	86	88	73	75	83	84	78	88	75
Medical and other health sciences	57	77	118	190	254	366	637	723	601	613	380	337	287	308	304	294	361	338
Medical sciences	25	34	26	43	36	59	50	49	58	70	97	104	98	132	141	122	162	174
Other health sciences	32	43	92	147	218	307	587	674	543	543	283	233	189	176	163	172	199	164
Physical sciences	150	169	154	163	149	166	161	192	212	227	272	284	265	223	261	263	221	200
Astronomy	8	18	7	10	2	3	8	13	16	6	11	12	6	11	16	16	11	4
Chemistry	85	97	103	88	90	106	102	106	116	134	157	155	158	106	158	142	113	119
Physics	57	54	43	65	56	56	50	71	79	86	104	116	100	105	85	102	92	71
Other physical sciences	0	0	1	0	1	1	1	2	1	1	0	1	1	1	2	3	5	6

TABLE S2-11

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Social and behavioral sciences	378	411	402	400	433	507	551	531	634	588	616	753	674	763	780	782	745	636
Psychology	166	224	209	200	254	298	299	283	349	301	287	360	322	396	365	341	366	310
Social sciences	212	187	193	200	179	209	252	248	285	287	329	393	352	367	415	441	379	326
Anthropology	29	20	40	27	26	31	27	37	40	43	50	50	45	56	56	69	52	56
Area and ethnic studies	24	17	20	21	19	20	28	25	19	21	26	27	23	21	36	27	22	14
Economics	41	28	25	34	32	47	46	44	65	52	51	75	67	59	61	68	58	60
History of science	6	2	3	3	1	1	4	0	8	0	2	2	3	1	6	0	2	3
Linguistics	6	11	5	14	7	7	10	9	3	13	11	20	13	14	17	20	15	9
Political science and public administration	52	57	41	70	52	53	80	77	90	100	117	143	125	143	146	142	148	106
Sociology	30	27	36	17	18	31	26	36	32	34	38	40	42	34	49	54	46	51
Other social sciences	24	25	23	14	24	19	31	20	28	24	34	36	34	39	44	61	36	27
Non-S&E	627	824	844	995	901	1,014	1,141	1,236	1,447	1,529	1,643	1,661	1,785	1,702	1,765	1,848	1,744	1,884
Temporary visa holder																		
All fields	10,834	10,963	10,929	11,626	12,753	14,343	15,975	16,999	17,207	16,711	15,646	16,333	16,868	17,654	18,324	18,256	18,519	18,884
S&E	8,461	8,714	8,478	9,015	9,843	11,355	12,725	13,697	13,886	13,358	12,605	13,174	13,771	14,354	15,210	15,183	15,223	15,592
Engineering	2,728	2,999	2,935	3,045	3,584	4,096	4,688	5,072	4,930	4,541	4,305	4,765	4,947	5,366	5,684	5,786	5,756	5,973
Aerospace	78	101	116	106	117	114	129	126	129	120	106	107	112	141	128	116	124	128
Chemical	301	323	339	313	368	512	488	542	533	449	460	511	527	573	649	633	622	606
Civil	309	347	396	402	479	534	568	576	579	554	504	541	556	626	689	695	698	776
Electrical	874	940	855	924	1,103	1,215	1,564	1,735	1,575	1,379	1,412	1,537	1,628	1,656	1,820	1,796	1,810	1,923
Industrial	114	153	160	165	161	179	185	235	221	221	174	195	224	256	264	243	249	238
Materials	214	237	209	259	289	323	369	377	381	380	337	368	352	409	386	436	427	440
Mechanical	437	492	478	450	528	625	751	762	743	714	597	667	721	770	811	903	854	844
Other	401	406	382	426	539	594	634	719	769	724	715	839	827	935	937	964	972	1,018
Science	5,733	5,715	5,543	5,970	6,259	7,259	8,037	8,625	8,956	8,817	8,300	8,409	8,824	8,988	9,526	9,397	9,467	9,619
Natural sciences	4,517	4,402	4,337	4,575	4,901	5,668	6,424	6,936	7,218	6,950	6,572	6,699	7,040	7,262	7,765	7,586	7,683	7,744
Agricultural sciences	431	390	420	434	415	393	397	425	412	428	343	393	450	448	473	493	494	539
Biological sciences	1,268	1,171	1,153	1,311	1,373	1,595	1,761	1,990	2,228	2,119	2,124	2,083	2,112	2,115	2,250	2,170	2,118	2,073
Earth, atmospheric, and ocean sciences	170	180	194	168	184	212	211	246	247	247	232	215	239	254	278	261	302	268
Atmospheric sciences	30	30	25	32	32	42	50	39	48	42	50	37	50	46	41	47	46	47
Earth sciences	113	122	138	109	124	135	134	166	167	170	146	155	158	167	211	184	220	202
Oceanography	27	28	31	27	28	35	27	41	32	35	36	23	31	41	26	30	36	19
Mathematics and computer sciences	868	849	829	899	1,012	1,261	1,579	1,628	1,720	1,592	1,510	1,531	1,689	1,872	1,976	1,989	1,993	2,032
Computer sciences	375	373	340	403	455	621	865	917	1,029	844	779	790	871	960	1,060	1,087	1,120	1,089
Mathematics and statistics	493	476	489	496	557	640	714	711	691	748	731	741	818	912	916	902	873	943
Medical and other health sciences	484	522	538	445	541	623	673	704	713	634	526	569	670	644	664	676	714	761

TABLE S2-11

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

(Number)

Citizenship, field, race, and ethnicity	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Medical sciences	278	282	314	273	355	409	436	431	410	406	364	389	468	474	492	488	507	534
Other health sciences	206	240	224	172	186	214	237	273	303	228	162	180	202	170	172	188	207	227
Physical sciences	1,296	1,290	1,203	1,318	1,376	1,584	1,803	1,943	1,898	1,930	1,837	1,908	1,880	1,929	2,124	1,997	2,062	2,071
Astronomy	25	25	17	22	26	42	41	39	46	45	41	58	46	54	48	35	45	56
Chemistry	754	751	682	784	784	860	1,041	1,142	1,081	1,066	1,022	1,093	1,046	1,077	1,218	1,119	1,196	1,152
Physics	500	492	492	498	557	669	706	746	753	799	762	742	767	770	817	812	792	822
Other physical sciences	17	22	12	14	9	13	15	16	18	20	12	15	21	28	41	31	29	41
Social and behavioral sciences	1,216	1,313	1,206	1,395	1,358	1,591	1,613	1,689	1,738	1,867	1,728	1,710	1,784	1,726	1,761	1,811	1,784	1,875
Psychology	158	157	143	199	198	229	254	246	241	276	272	258	251	263	254	272	234	269
Social sciences	1,058	1,156	1,063	1,196	1,160	1,362	1,359	1,443	1,497	1,591	1,456	1,452	1,533	1,463	1,507	1,539	1,550	1,606
Anthropology	62	72	78	67	71	67	55	86	75	96	90	91	95	87	99	88	105	96
Area and ethnic studies	32	36	29	27	36	30	33	24	56	48	46	43	54	32	51	46	48	61
Economics	527	594	542	590	582	743	686	738	734	764	661	696	733	692	712	717	761	787
History of science	5	1	4	3	6	7	6	11	5	7	6	3	7	5	12	12	6	5
Linguistics	97	93	68	99	89	77	102	96	101	95	85	89	110	106	101	111	107	89
Political science and public administration	163	188	171	228	192	243	271	282	282	325	345	301	316	326	303	338	297	334
Sociology	92	77	73	106	104	98	108	114	117	136	108	116	99	109	112	110	106	106
Other social sciences	80	95	98	76	80	97	98	92	127	120	115	113	119	106	117	117	120	128
Non-S&E	2,373	2,249	2,451	2,611	2,910	2,988	3,250	3,302	3,321	3,353	3,041	3,159	3,097	3,300	3,114	3,073	3,296	3,292

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

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

^b Pacific Islander includes Native Hawaiian or Other Pacific Islander.

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

Note(s)

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

Source(s)

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