

TABLE S2-10

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

(Number)

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

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

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Area and ethnic studies	212	216	209	176	204	184	220	226	246	226	237	257	274	272	316	309	302	323
Economics	1,001	1,016	961	967	978	1,111	1,057	1,107	1,172	1,172	1,120	1,152	1,271	1,227	1,212	1,283	1,298	1,325
History of science	23	21	20	27	20	28	34	27	34	19	31	27	24	29	41	31	31	30
Linguistics	202	193	152	201	194	172	216	219	215	240	203	235	249	237	240	266	259	229
Political science and public administration	1,019	1,047	992	1,055	1,001	1,049	1,098	1,093	1,104	1,244	1,312	1,314	1,402	1,507	1,537	1,622	1,518	1,557
Sociology	602	550	547	598	564	534	574	573	594	635	612	671	635	626	692	733	658	697
Other social sciences	452	442	433	355	388	373	413	402	448	438	435	475	532	493	544	596	530	551
Non-S&E	17,085	16,972	16,723	17,431	17,581	18,387	18,768	19,907	20,236	20,619	20,694	21,377	22,317	23,324	23,596	24,594	24,991	25,413
Male																		
All fields	25,064	24,781	23,760	24,398	25,359	27,039	28,702	30,336	30,601	30,505	29,008	30,334	31,322	32,739	33,760	34,455	34,810	35,291
S&E	17,024	16,873	16,164	16,569	17,532	18,970	20,254	21,653	21,995	21,743	20,361	21,377	22,107	23,021	24,072	24,371	24,699	25,048
Engineering	4,549	4,640	4,300	4,373	4,884	5,326	5,918	6,381	6,362	6,203	5,997	6,580	6,867	7,312	7,824	7,980	7,929	8,037
Aerospace	179	179	174	154	170	178	184	204	208	224	188	207	235	261	283	263	283	304
Chemical	529	518	527	459	530	667	667	682	701	649	660	671	676	703	841	836	818	822
Civil	513	520	541	549	576	630	667	685	677	688	605	655	681	738	840	859	852	853
Electrical	1,328	1,330	1,213	1,230	1,418	1,530	1,826	2,004	1,891	1,752	1,787	1,965	2,051	2,105	2,229	2,261	2,202	2,213
Industrial	175	209	200	188	228	221	220	260	249	247	218	219	244	276	278	233	262	261
Materials	371	363	307	359	403	392	456	494	509	489	487	495	543	555	537	593	626	649
Mechanical	732	816	715	698	736	847	988	991	989	1,026	897	1,010	1,083	1,172	1,237	1,363	1,293	1,260
Other	722	705	623	736	823	861	910	1,061	1,138	1,128	1,155	1,358	1,354	1,502	1,579	1,572	1,593	1,675
Science	12,475	12,233	11,864	12,196	12,648	13,644	14,336	15,272	15,633	15,540	14,364	14,797	15,240	15,709	16,248	16,391	16,770	17,011
Natural sciences	8,833	8,553	8,398	8,748	9,119	10,142	10,889	11,860	12,133	12,070	10,936	11,305	11,631	12,003	12,512	12,487	12,879	13,106
Agricultural sciences	663	601	637	672	640	642	612	630	635	637	527	562	604	648	635	716	715	688
Biological sciences	2,790	2,655	2,557	2,826	2,948	3,014	3,125	3,419	3,612	3,535	3,564	3,609	3,665	3,658	3,832	3,711	3,722	3,823
Earth, atmospheric, and ocean sciences	413	386	385	376	360	375	382	441	439	436	424	420	418	429	487	468	539	510
Atmospheric sciences	70	55	47	57	54	67	62	54	85	77	66	84	76	79	85	91	91	85
Earth sciences	273	270	284	264	245	256	282	318	295	308	292	281	282	298	345	326	379	375
Oceanography	70	61	54	55	61	52	38	69	59	51	66	55	60	52	57	51	69	50
Mathematics and computer sciences	1,453	1,351	1,238	1,382	1,473	1,749	2,022	2,219	2,262	2,283	2,343	2,387	2,528	2,751	2,857	2,811	2,874	2,900
Computer sciences	646	632	579	648	709	907	1,109	1,269	1,323	1,223	1,225	1,251	1,329	1,458	1,532	1,512	1,547	1,497
Mathematics and statistics	807	719	659	734	764	842	913	950	939	1,060	1,118	1,136	1,199	1,293	1,325	1,299	1,327	1,403
Medical and other health sciences	930	1,027	1,223	1,046	1,266	1,734	1,931	2,224	2,214	2,148	1,123	1,185	1,271	1,330	1,328	1,457	1,522	1,671
Medical sciences	419	393	431	393	419	466	500	510	531	479	534	547	608	646	681	699	696	795
Other health sciences	511	634	792	653	847	1,268	1,431	1,714	1,683	1,669	589	638	663	684	647	758	826	876
Physical sciences	2,584	2,533	2,358	2,446	2,432	2,628	2,817	2,927	2,971	3,031	2,955	3,142	3,145	3,187	3,373	3,324	3,507	3,514
Astronomy	76	83	56	73	69	77	74	85	124	89	99	109	113	111	117	101	110	123

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(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Chemistry	1,426	1,415	1,346	1,451	1,411	1,456	1,609	1,642	1,594	1,628	1,570	1,638	1,602	1,628	1,771	1,700	1,868	1,836
Physics	1,050	1,002	926	899	940	1,072	1,107	1,177	1,227	1,287	1,265	1,368	1,402	1,405	1,437	1,473	1,479	1,506
Other physical sciences	32	33	30	23	12	23	27	23	26	27	21	27	28	43	48	50	50	49
Social and behavioral sciences	3,642	3,680	3,466	3,448	3,529	3,502	3,447	3,412	3,500	3,470	3,428	3,492	3,609	3,706	3,736	3,904	3,891	3,905
Psychology	1,370	1,440	1,348	1,327	1,356	1,348	1,236	1,282	1,289	1,134	1,069	1,089	1,059	1,162	1,213	1,190	1,233	1,218
Social sciences	2,272	2,240	2,118	2,121	2,173	2,154	2,211	2,130	2,211	2,336	2,359	2,403	2,550	2,544	2,523	2,714	2,658	2,687
Anthropology	205	181	209	190	244	198	208	199	190	212	220	238	211	206	228	224	248	217
Area and ethnic studies	106	86	107	67	97	81	98	95	103	88	106	116	113	130	129	125	128	118
Economics	733	724	690	687	689	772	733	749	764	753	740	746	850	791	797	817	848	873
History of science	16	18	16	13	11	17	17	13	17	12	17	19	17	11	23	15	12	13
Linguistics	86	84	63	79	78	60	85	89	95	88	88	93	116	97	94	117	101	92
Political science and public administration	636	683	573	646	620	609	642	577	584	698	724	716	750	808	757	856	773	829
Sociology	248	229	215	245	226	205	206	211	234	255	234	252	233	259	257	292	281	274
Other social sciences	242	235	245	194	208	212	222	197	224	230	230	223	260	242	238	268	267	271
Non-S&E	8,040	7,908	7,596	7,829	7,827	8,069	8,448	8,683	8,606	8,762	8,647	8,957	9,215	9,718	9,688	10,084	10,111	10,243
Female																		
All fields	19,883	20,287	20,551	21,779	23,201	25,816	27,607	30,551	31,115	31,225	28,397	29,513	30,859	32,148	33,831	34,660	35,026	35,851
S&E	10,838	11,223	11,424	12,177	13,447	15,498	17,287	19,327	19,485	19,368	16,350	17,093	17,757	18,542	19,923	20,150	20,146	20,681
Engineering	835	921	896	909	1,047	1,222	1,484	1,685	1,748	1,712	1,815	1,898	2,006	2,177	2,311	2,426	2,429	2,510
Aerospace	24	23	19	24	20	27	25	30	24	33	40	30	40	49	53	47	49	38
Chemical	136	162	166	149	178	205	244	233	249	237	269	280	293	298	328	361	363	347
Civil	115	127	128	136	160	200	197	250	232	214	246	239	241	298	314	371	314	393
Electrical	187	197	148	172	216	252	298	376	388	338	382	387	424	364	413	390	418	456
Industrial	43	53	75	70	52	65	82	104	97	86	72	100	104	113	122	121	113	119
Materials	83	91	74	98	91	122	155	169	156	172	166	156	172	202	197	217	216	228
Mechanical	89	90	98	88	99	116	151	147	160	160	125	162	194	212	217	223	241	238
Other	158	178	188	172	231	235	332	376	442	472	515	544	538	641	667	696	715	691
Science	10,003	10,302	10,528	11,268	12,400	14,276	15,803	17,642	17,737	17,656	14,535	15,195	15,751	16,365	17,612	17,724	17,717	18,171
Natural sciences	5,463	5,531	5,987	6,592	7,654	9,187	10,674	12,192	12,333	12,579	9,873	10,008	10,521	10,805	11,586	11,678	11,895	12,297
Agricultural sciences	321	333	332	388	376	362	425	438	445	506	455	491	540	570	593	665	628	676
Biological sciences	2,202	2,095	2,039	2,386	2,543	2,911	3,013	3,284	3,707	3,894	4,007	3,987	4,152	4,167	4,375	4,179	4,136	4,180
Earth, atmospheric, and ocean sciences	166	156	177	168	180	197	218	286	244	288	289	267	319	365	374	359	373	380
Atmospheric sciences	17	15	21	21	23	29	33	33	21	33	34	36	49	58	41	55	51	68
Earth sciences	120	110	120	104	124	123	148	195	174	195	204	186	215	232	261	249	252	254
Oceanography	29	31	36	43	33	45	37	58	49	60	51	45	55	75	72	55	70	58
Mathematics and computer sciences	405	418	439	443	502	552	691	734	796	827	812	765	832	882	942	942	917	959

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(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Computer sciences	131	136	171	168	201	214	307	328	373	351	336	311	361	351	403	439	389	437
Mathematics and statistics	274	282	268	275	301	338	384	406	423	476	476	454	471	531	539	503	528	522
Medical and other health sciences	1,509	1,616	2,111	2,275	3,140	4,173	5,158	6,168	5,907	5,679	2,939	3,080	3,234	3,305	3,728	3,886	4,270	4,530
Medical sciences	474	471	451	457	591	678	752	783	789	775	972	950	1,108	1,221	1,467	1,734	1,901	2,058
Other health sciences	1,035	1,145	1,660	1,818	2,549	3,495	4,406	5,385	5,118	4,904	1,967	2,130	2,126	2,084	2,261	2,152	2,369	2,472
Physical sciences	860	913	889	932	913	992	1,169	1,282	1,234	1,385	1,371	1,418	1,444	1,516	1,574	1,647	1,571	1,572
Astronomy	25	20	14	28	32	38	40	43	39	54	61	57	57	63	62	52	59	73
Chemistry	664	719	691	707	694	770	893	964	901	1,024	994	1,047	1,028	1,102	1,150	1,206	1,134	1,154
Physics	158	167	170	190	179	182	234	265	280	293	305	302	350	335	331	367	354	320
Other physical sciences	13	7	14	7	8	2	2	10	14	14	11	12	9	16	31	22	24	25
Social and behavioral sciences	4,540	4,771	4,541	4,676	4,746	5,089	5,129	5,450	5,404	5,077	4,662	5,187	5,230	5,560	6,026	6,046	5,822	5,874
Psychology	2,830	3,098	2,837	2,931	3,033	3,333	3,248	3,414	3,311	2,912	2,537	2,863	2,808	3,118	3,361	3,343	3,293	3,268
Social sciences	1,710	1,673	1,704	1,745	1,713	1,756	1,881	2,036	2,093	2,165	2,125	2,324	2,422	2,442	2,665	2,703	2,529	2,606
Anthropology	266	247	299	297	293	261	272	320	301	315	314	358	374	389	378	353	343	364
Area and ethnic studies	106	130	102	109	107	103	122	131	143	138	131	141	161	142	187	184	174	205
Economics	268	292	271	280	289	339	324	358	408	419	380	406	421	436	415	466	450	452
History of science	7	3	4	14	9	11	17	14	17	7	14	8	7	18	18	16	19	17
Linguistics	116	109	89	122	116	112	131	130	120	152	115	142	133	140	146	149	158	137
Political science and public administration	383	364	419	409	381	440	456	516	520	546	588	598	652	699	780	766	745	728
Sociology	354	321	332	353	338	329	368	362	360	380	378	419	402	367	435	441	377	423
Other social sciences	210	207	188	161	180	161	191	205	224	208	205	252	272	251	306	328	263	280
Non-S&E	9,045	9,064	9,127	9,602	9,754	10,318	10,320	11,224	11,630	11,857	12,047	12,420	13,102	13,606	13,908	14,510	14,880	15,170
U.S. citizen or permanent resident																		
Both sexes																		
All fields	34,113	34,105	33,382	34,551	35,807	38,512	40,334	43,888	44,509	45,019	41,759	43,514	45,313	47,233	49,267	50,859	51,317	52,258
S&E	19,401	19,382	19,110	19,731	21,136	23,113	24,816	27,283	27,594	27,753	24,106	25,296	26,093	27,209	28,785	29,338	29,622	30,137
Engineering	2,656	2,562	2,261	2,237	2,347	2,452	2,714	2,994	3,180	3,374	3,507	3,713	3,926	4,123	4,451	4,620	4,602	4,574
Aerospace	125	101	77	72	73	91	80	108	103	137	122	130	163	169	208	194	208	214
Chemical	364	357	354	295	340	360	423	373	417	437	469	440	442	428	520	564	559	563
Civil	319	300	273	283	257	296	296	359	330	348	347	353	366	410	465	535	468	470
Electrical	641	587	506	478	531	567	560	645	704	711	757	815	847	813	822	855	810	746
Industrial	104	109	115	93	119	107	117	129	125	112	116	124	124	133	136	111	126	142
Materials	240	217	172	198	205	191	242	286	284	281	316	283	363	348	348	374	415	437
Mechanical	384	414	335	336	307	338	388	376	406	472	425	505	556	614	643	683	680	654
Other	479	477	429	482	515	502	608	718	811	876	955	1,063	1,065	1,208	1,309	1,304	1,336	1,348
Science	16,745	16,820	16,849	17,494	18,789	20,661	22,102	24,289	24,414	24,379	20,599	21,583	22,167	23,086	24,334	24,718	25,020	25,563

TABLE S2-10

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

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Natural sciences	9,779	9,682	10,048	10,765	11,872	13,661	15,139	17,116	17,248	17,699	14,237	14,614	15,112	15,546	16,333	16,579	17,091	17,659
Agricultural sciences	553	544	549	626	601	611	640	643	668	715	639	660	694	770	755	888	849	825
Biological sciences	3,724	3,579	3,443	3,901	4,118	4,330	4,377	4,713	5,091	5,310	5,447	5,513	5,705	5,710	5,957	5,720	5,740	5,930
Earth, atmospheric, and ocean sciences	409	362	368	376	356	360	389	481	436	477	481	472	498	540	583	566	610	622
Atmospheric sciences	57	40	43	46	45	54	45	48	58	68	50	83	75	91	85	99	96	106
Earth sciences	280	258	266	259	245	244	296	347	302	333	350	312	339	363	395	391	411	427
Oceanography	72	64	59	71	66	62	48	86	76	76	81	77	84	86	103	76	103	89
Mathematics and computer sciences	990	920	848	926	963	1,040	1,134	1,325	1,338	1,518	1,645	1,621	1,671	1,761	1,823	1,764	1,798	1,827
Computer sciences	402	395	410	413	455	500	551	680	667	730	782	772	819	849	875	864	816	845
Mathematics and statistics	588	525	438	513	508	540	583	645	671	788	863	849	852	912	948	900	982	982
Medical and other health sciences	1,955	2,121	2,796	2,876	3,865	5,284	6,416	7,688	7,408	7,193	3,536	3,696	3,835	3,991	4,392	4,667	5,078	5,440
Medical sciences	615	582	568	577	655	735	816	862	910	848	1,142	1,108	1,248	1,393	1,656	1,945	2,090	2,319
Other health sciences	1,340	1,539	2,228	2,299	3,210	4,549	5,600	6,826	6,498	6,345	2,394	2,588	2,587	2,598	2,736	2,722	2,988	3,121
Physical sciences	2,148	2,156	2,044	2,060	1,969	2,036	2,183	2,266	2,307	2,486	2,489	2,652	2,709	2,774	2,823	2,974	3,016	3,015
Astronomy	76	78	53	79	75	73	73	89	117	98	119	108	124	120	131	118	124	140
Chemistry	1,336	1,383	1,355	1,374	1,321	1,366	1,461	1,464	1,414	1,586	1,542	1,592	1,584	1,653	1,703	1,787	1,806	1,838
Physics	708	677	604	591	562	585	635	696	754	781	808	928	985	970	951	1,028	1,041	1,004
Other physical sciences	28	18	32	16	11	12	14	17	22	21	20	24	16	31	38	41	45	33
Social and behavioral sciences	6,966	7,138	6,801	6,729	6,917	7,000	6,963	7,173	7,166	6,680	6,362	6,969	7,055	7,540	8,001	8,139	7,929	7,904
Psychology	4,042	4,381	4,042	4,059	4,191	4,452	4,230	4,450	4,359	3,770	3,334	3,694	3,616	4,017	4,320	4,261	4,292	4,217
Social sciences	2,924	2,757	2,759	2,670	2,726	2,548	2,733	2,723	2,807	2,910	3,028	3,275	3,439	3,523	3,681	3,878	3,637	3,687
Anthropology	409	356	430	420	466	392	425	433	416	431	444	505	490	508	507	489	486	485
Area and ethnic studies	180	180	180	149	168	154	187	202	190	178	191	214	220	240	265	263	254	262
Economics	474	422	419	377	396	368	371	369	438	408	459	456	538	535	500	566	537	538
History of science	18	20	16	24	14	21	28	16	29	12	25	24	17	24	29	19	25	25
Linguistics	105	100	84	102	105	95	114	123	114	145	118	146	139	131	139	155	152	140
Political science and public administration	856	859	821	827	809	806	827	811	822	919	967	1,013	1,086	1,181	1,234	1,284	1,221	1,223
Sociology	510	473	474	492	460	436	466	459	477	499	504	555	536	517	580	623	552	591
Other social sciences	372	347	335	279	308	276	315	310	321	318	320	362	413	387	427	479	410	423
Non-S&E	14,712	14,723	14,272	14,820	14,671	15,399	15,518	16,605	16,915	17,266	17,653	18,218	19,220	20,024	20,482	21,521	21,695	22,121
Male																		
All fields	17,408	17,061	16,263	16,501	16,767	17,391	18,294	19,321	19,603	19,881	19,176	20,016	20,640	21,586	22,143	22,954	23,048	23,286
S&E	10,712	10,457	10,024	10,097	10,487	10,925	11,496	12,285	12,595	12,787	11,980	12,545	12,925	13,460	13,972	14,320	14,524	14,645
Engineering	2,160	2,079	1,810	1,807	1,854	1,941	2,108	2,317	2,376	2,518	2,601	2,793	2,925	3,104	3,349	3,456	3,475	3,409
Aerospace	108	85	67	63	64	81	69	92	90	119	102	115	139	142	172	164	177	188
Chemical	275	271	267	225	245	277	306	279	287	311	329	299	307	302	380	402	402	405

TABLE S2-10

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

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Civil	248	224	206	204	178	200	211	268	219	240	234	238	244	271	300	353	310	287
Electrical	557	524	449	418	457	477	497	555	595	597	638	685	689	708	704	743	698	620
Industrial	81	77	76	66	90	79	73	88	79	74	81	87	75	90	93	77	94	95
Materials	186	170	128	155	169	141	176	212	217	194	224	217	275	247	256	276	323	329
Mechanical	330	372	298	297	258	296	329	319	339	391	363	421	463	505	548	562	564	553
Other	375	356	319	379	393	390	447	504	550	592	630	731	733	839	896	879	907	932
Science	8,552	8,378	8,214	8,290	8,633	8,984	9,388	9,968	10,219	10,269	9,379	9,752	10,000	10,356	10,623	10,864	11,049	11,236
Natural sciences	5,693	5,554	5,508	5,683	5,912	6,466	6,879	7,485	7,661	7,813	6,895	7,184	7,364	7,557	7,803	7,946	8,133	8,346
Agricultural sciences	359	334	344	388	367	376	381	365	394	365	318	343	364	400	390	449	439	396
Biological sciences	2,021	1,963	1,893	2,068	2,189	2,185	2,237	2,386	2,531	2,485	2,517	2,597	2,609	2,641	2,767	2,687	2,710	2,842
Earth, atmospheric, and ocean sciences	289	243	233	249	226	234	241	276	268	286	282	282	274	284	306	314	344	345
Atmospheric sciences	46	34	32	32	32	42	32	30	50	52	32	61	52	55	58	70	64	58
Earth sciences	195	171	168	181	152	161	185	204	180	201	207	181	180	195	203	209	232	242
Oceanography	48	38	33	36	42	31	24	42	38	33	43	40	42	34	45	35	48	45
Mathematics and computer sciences	752	691	617	687	700	785	853	987	967	1,122	1,223	1,243	1,283	1,338	1,382	1,348	1,374	1,360
Computer sciences	329	311	308	323	345	397	421	535	514	569	605	624	655	668	688	675	644	631
Mathematics and statistics	423	380	309	364	355	388	432	452	453	553	618	619	628	670	694	673	730	729
Medical and other health sciences	687	766	955	830	1,016	1,460	1,639	1,918	1,886	1,878	878	927	982	1,036	1,041	1,143	1,200	1,331
Medical sciences	261	239	245	241	235	269	286	281	292	280	351	344	378	424	453	457	450	539
Other health sciences	426	527	710	589	781	1,191	1,353	1,637	1,594	1,598	527	583	604	612	588	686	750	792
Physical sciences	1,585	1,557	1,466	1,461	1,414	1,426	1,528	1,553	1,615	1,677	1,677	1,792	1,852	1,858	1,917	2,005	2,066	2,072
Astronomy	56	62	43	58	50	45	47	58	87	57	69	68	82	75	86	76	77	88
Chemistry	885	905	892	911	889	871	943	912	898	966	932	941	953	973	1,023	1,065	1,116	1,125
Physics	626	576	510	480	469	499	526	573	615	637	662	765	805	788	786	837	839	841
Other physical sciences	18	14	21	12	6	11	12	10	15	17	14	18	12	22	22	27	34	18
Social and behavioral sciences	2,859	2,824	2,706	2,607	2,721	2,518	2,509	2,483	2,558	2,456	2,484	2,568	2,636	2,799	2,820	2,918	2,916	2,890
Psychology	1,296	1,369	1,293	1,255	1,293	1,274	1,147	1,215	1,217	1,040	980	1,016	994	1,078	1,129	1,106	1,163	1,140
Social sciences	1,563	1,455	1,413	1,352	1,428	1,244	1,362	1,268	1,341	1,416	1,504	1,552	1,642	1,721	1,691	1,812	1,753	1,750
Anthropology	167	144	175	160	218	157	180	166	157	164	177	196	160	177	175	181	193	174
Area and ethnic studies	81	69	92	56	80	65	81	88	81	67	87	93	90	112	109	101	107	91
Economics	336	275	288	260	274	231	251	251	283	274	302	300	360	367	343	369	374	359
History of science	13	17	13	11	8	11	14	6	13	9	14	16	13	11	14	9	9	12
Linguistics	46	41	31	43	38	33	45	49	52	51	50	61	62	52	58	72	55	52
Political science and public administration	523	543	456	488	481	446	472	409	418	487	520	537	567	610	605	641	588	643
Sociology	206	186	185	190	165	153	162	164	177	201	186	194	196	215	209	235	231	224
Other social sciences	191	180	173	144	164	148	157	135	160	163	168	155	194	177	178	204	196	195

TABLE S2-10

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

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Non-S&E	6,696	6,604	6,239	6,404	6,280	6,466	6,798	7,036	7,008	7,094	7,196	7,471	7,715	8,126	8,171	8,634	8,524	8,641
Female																		
All fields	16,705	17,044	17,119	18,050	19,040	21,121	22,040	24,567	24,906	25,138	22,583	23,498	24,673	25,647	27,124	27,905	28,269	28,972
S&E	8,689	8,925	9,086	9,634	10,649	12,188	13,320	14,998	14,999	14,966	12,126	12,751	13,168	13,749	14,813	15,018	15,098	15,492
Engineering	496	483	451	430	493	511	606	677	804	856	906	920	1,001	1,019	1,102	1,164	1,127	1,165
Aerospace	17	16	10	9	9	10	11	16	13	18	20	15	24	27	36	30	31	26
Chemical	89	86	87	70	95	83	117	94	130	126	140	141	135	126	140	162	157	158
Civil	71	76	67	79	79	96	85	91	111	108	113	115	122	139	165	182	158	183
Electrical	84	63	57	60	74	90	63	90	109	114	119	130	158	105	118	112	112	126
Industrial	23	32	39	27	29	28	44	41	46	38	35	37	49	43	43	34	32	47
Materials	54	47	44	43	36	50	66	74	67	87	92	66	88	101	92	98	92	108
Mechanical	54	42	37	39	49	42	59	57	67	81	62	84	93	109	95	121	116	101
Other	104	121	110	103	122	112	161	214	261	284	325	332	332	369	413	425	429	416
Science	8,193	8,442	8,635	9,204	10,156	11,677	12,714	14,321	14,195	14,110	11,220	11,831	12,167	12,730	13,711	13,854	13,971	14,327
Natural sciences	4,086	4,128	4,540	5,082	5,960	7,195	8,260	9,631	9,587	9,886	7,342	7,430	7,748	7,989	8,530	8,633	8,958	9,313
Agricultural sciences	194	210	205	238	234	235	259	278	274	350	321	317	330	370	365	439	410	429
Biological sciences	1,703	1,616	1,550	1,833	1,929	2,145	2,140	2,327	2,560	2,825	2,930	2,916	3,096	3,069	3,190	3,033	3,030	3,088
Earth, atmospheric, and ocean sciences	120	119	135	127	130	126	148	205	168	191	199	190	224	256	277	252	266	277
Atmospheric sciences	11	6	11	14	13	12	13	18	8	16	18	22	23	36	27	29	32	48
Earth sciences	85	87	98	78	93	83	111	143	122	132	143	131	159	168	192	182	179	185
Oceanography	24	26	26	35	24	31	24	44	38	43	38	37	42	52	58	41	55	44
Mathematics and computer sciences	238	229	231	239	263	255	281	338	371	396	422	378	388	423	441	416	424	467
Computer sciences	73	84	102	90	110	103	130	145	153	161	177	148	164	181	187	189	172	214
Mathematics and statistics	165	145	129	149	153	152	151	193	218	235	245	230	224	242	254	227	252	253
Medical and other health sciences	1,268	1,355	1,841	2,046	2,849	3,824	4,777	5,770	5,522	5,315	2,658	2,769	2,853	2,955	3,351	3,524	3,878	4,109
Medical sciences	354	343	323	336	420	466	530	581	618	568	791	764	870	969	1,203	1,488	1,640	1,780
Other health sciences	914	1,012	1,518	1,710	2,429	3,358	4,247	5,189	4,904	4,747	1,867	2,005	1,983	1,986	2,148	2,036	2,238	2,329
Physical sciences	563	599	578	599	555	610	655	713	692	809	812	860	857	916	906	969	950	943
Astronomy	20	16	10	21	25	28	26	31	30	41	50	40	42	45	45	42	47	52
Chemistry	451	478	463	463	432	495	518	552	516	620	610	651	631	680	680	722	690	713
Physics	82	101	94	111	93	86	109	123	139	144	146	163	180	182	165	191	202	163
Other physical sciences	10	4	11	4	5	1	2	7	7	4	6	6	4	9	16	14	11	15
Social and behavioral sciences	4,107	4,314	4,095	4,122	4,196	4,482	4,454	4,690	4,608	4,224	3,878	4,401	4,419	4,741	5,181	5,221	5,013	5,014
Psychology	2,746	3,012	2,749	2,804	2,898	3,178	3,083	3,235	3,142	2,730	2,354	2,678	2,622	2,939	3,191	3,155	3,129	3,077
Social sciences	1,361	1,302	1,346	1,318	1,298	1,304	1,371	1,455	1,466	1,494	1,524	1,723	1,797	1,802	1,990	2,066	1,884	1,937
Anthropology	242	212	255	260	248	235	245	267	259	267	267	309	330	331	332	308	293	311

TABLE S2-10

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

(Number)

Citizenship, sex, and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Area and ethnic studies	99	111	88	93	88	89	106	114	109	111	104	121	130	128	156	162	147	171
Economics	138	147	131	117	122	137	120	118	155	134	157	156	178	168	157	197	163	179
History of science	5	3	3	13	6	10	14	10	16	3	11	8	4	13	15	10	16	13
Linguistics	59	59	53	59	67	62	69	74	62	94	68	85	77	79	81	83	97	88
Political science and public administration	333	316	365	339	328	360	355	402	404	432	447	476	519	571	629	643	633	580
Sociology	304	287	289	302	295	283	304	295	300	298	318	361	340	302	371	388	321	367
Other social sciences	181	167	162	135	144	128	158	175	161	155	152	207	219	210	249	275	214	228
Non-S&E	8,016	8,119	8,033	8,416	8,391	8,933	8,720	9,569	9,907	10,172	10,457	10,747	11,505	11,898	12,311	12,887	13,171	13,480

Note(s)

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

Source(s)

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

Science and Engineering Indicators