

**Table 18. Doctorate recipients, by citizenship status and major field of study: 2005–15**

<b>Citizenship status and major field of study</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>% change 2005–15</b>
All doctorate recipients <sup>a</sup>	43,385	45,621	48,132	48,777	49,553	48,031	48,914	50,951	52,707	54,003	55,006	26.8
Life sciences	9,310	9,703	10,702	11,086	11,403	11,319	11,536	11,965	12,209	12,484	12,520	34.5
Agricultural sciences and natural resources	1,160	1,146	1,321	1,198	1,283	1,100	1,206	1,255	1,324	1,338	1,439	24.1
Biological and biomedical sciences	6,367	6,652	7,238	7,797	8,025	8,046	8,153	8,323	8,356	8,867	8,801	38.2
Health sciences	1,783	1,905	2,143	2,091	2,095	2,173	2,177	2,387	2,529	2,279	2,280	27.9
Physical sciences and earth sciences	4,359	4,686	4,956	4,946	5,161	4,995	5,271	5,420	5,584	5,912	5,924	35.9
Chemistry	2,126	2,364	2,318	2,246	2,392	2,304	2,432	2,416	2,484	2,673	2,675	25.8
Geosciences, atmospheric, and ocean sciences	714	757	875	865	877	862	852	941	989	1,099	1,057	48.0
Physics and astronomy	1,519	1,565	1,763	1,835	1,892	1,829	1,987	2,063	2,111	2,140	2,192	44.3
Mathematics and computer sciences	2,334	2,778	3,042	3,187	3,163	3,223	3,273	3,496	3,660	3,863	3,825	63.9
Computer and information sciences	1,129	1,453	1,654	1,787	1,610	1,633	1,667	1,793	1,843	1,989	2,005	77.6
Mathematics and statistics	1,205	1,325	1,388	1,400	1,553	1,590	1,606	1,703	1,817	1,874	1,820	51.0
Psychology and social sciences	7,149	7,231	7,309	7,635	7,945	7,883	8,222	8,501	8,580	8,752	9,095	27.2
Psychology	3,322	3,260	3,276	3,357	3,472	3,421	3,577	3,601	3,592	3,724	3,782	13.8
Anthropology	456	472	512	483	503	507	553	547	550	524	493	8.1
Economics	1,061	1,029	1,004	1,091	1,118	1,073	1,121	1,243	1,183	1,196	1,256	18.4
Political science and government	618	616	588	628	682	728	685	724	803	777	859	39.0
Sociology	536	579	576	601	662	639	657	633	636	679	745	39.0
Other social sciences	1,156	1,275	1,353	1,475	1,508	1,515	1,629	1,753	1,816	1,852	1,960	69.6
Engineering	6,426	7,186	7,749	7,864	7,642	7,578	8,032	8,470	9,001	9,633	9,897	54.0
Aerospace, aeronautical, and astronautical engineering	219	238	267	266	297	252	262	307	348	386	361	64.8
Bioengineering and biomedical engineering	417	525	637	762	834	824	898	943	1,039	1,046	1,129	170.7
Chemical engineering	774	799	817	873	807	822	823	840	824	973	1,002	29.5
Civil engineering	622	655	703	713	707	643	634	495	542	622	633	1.8
Electrical, electronics, and communications engineering	1,547	1,786	1,967	1,888	1,693	1,778	1,886	1,939	1,897	1,953	2,004	29.5
Industrial and manufacturing engineering	221	234	279	280	251	215	258	226	241	298	244	10.4
Materials science engineering	493	583	646	636	625	670	662	743	815	833	874	77.3
Mechanical engineering	892	1,045	1,071	1,082	1,095	983	1,084	1,220	1,277	1,331	1,467	64.5
Other engineering	1,241	1,321	1,362	1,364	1,333	1,391	1,525	1,757	2,018	2,191	2,183	75.9
Education	6,227	6,122	6,448	6,561	6,528	5,288	4,670	4,803	4,935	4,791	5,117	-17.8

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Citizenship status and major field of study	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% change 2005–15
Education administration	2,167	2,051	2,161	2,238	2,146	1,439	924	1,057	966	893	922	-57.5
Education research	2,674	2,751	2,671	2,640	2,663	2,443	2,438	2,569	2,703	2,560	2,783	4.1
Teacher education	263	250	297	274	332	245	204	156	109	152	155	-41.1
Teaching fields	663	707	873	912	906	800	805	757	892	917	957	44.3
Other education	460	363	446	497	481	361	299	264	265	269	300	-34.8
Humanities and arts	5,187	5,333	5,085	4,736	4,904	5,016	5,227	5,562	5,715	5,526	5,600	8.0
Foreign languages and literature	607	615	607	627	598	601	644	684	701	674	656	8.1
History	924	973	937	971	1,045	1,005	1,065	1,087	1,148	1,186	1,145	23.9
Letters	1,389	1,457	1,340	1,420	1,413	1,516	1,513	1,638	1,606	1,552	1,590	14.5
Other humanities and arts	2,267	2,288	2,201	1,718	1,848	1,894	2,005	2,153	2,260	2,114	2,209	-2.6
Other <sup>b</sup>	2,393	2,582	2,841	2,762	2,807	2,729	2,683	2,734	3,023	3,042	3,028	26.5
Business management and administration	1,171	1,311	1,506	1,421	1,405	1,366	1,327	1,404	1,551	1,583	1,588	35.6
Communication	488	510	560	557	627	638	650	595	645	663	668	36.9
Non-S&E fields not elsewhere classified	733	757	772	784	775	725	706	735	827	796	772	5.3
Unknown field	1	4	3	0	0	0	0	0	0	0	0	-100.0
U.S. citizen or permanent resident	27,945	29,028	29,501	30,844	32,327	31,604	31,727	32,983	33,966	34,010	35,117	25.7
Life sciences	6,282	6,506	7,009	7,279	7,803	7,812	7,892	8,184	8,354	8,392	8,484	35.1
Agricultural sciences and natural resources	599	631	686	647	712	618	697	675	737	754	774	29.2
Biological and biomedical sciences	4,392	4,504	4,833	5,141	5,528	5,585	5,614	5,790	5,770	5,995	6,043	37.6
Health sciences	1,291	1,371	1,490	1,491	1,563	1,609	1,581	1,719	1,847	1,643	1,667	29.1
Physical sciences and earth sciences	2,344	2,479	2,567	2,674	2,914	2,860	3,048	3,148	3,247	3,301	3,481	48.5
Chemistry	1,212	1,276	1,190	1,231	1,391	1,323	1,407	1,385	1,443	1,447	1,574	29.9
Geosciences, atmospheric, and ocean sciences	444	473	551	536	559	573	555	623	654	722	704	58.6
Physics and astronomy	688	730	826	907	964	964	1,086	1,140	1,150	1,132	1,203	74.9
Mathematics and computer sciences	1,011	1,207	1,241	1,370	1,506	1,599	1,603	1,627	1,631	1,738	1,661	64.3
Computer and information sciences	468	588	639	697	734	761	790	785	758	807	773	65.2
Mathematics and statistics	543	619	602	673	772	838	813	842	873	931	888	63.5
Psychology and social sciences	5,252	5,381	5,272	5,588	5,714	5,803	6,071	6,320	6,464	6,392	6,698	27.5
Psychology	2,894	2,825	2,780	2,892	2,908	2,874	3,063	3,047	3,067	3,042	3,107	7.4
Anthropology	358	404	410	400	403	384	455	445	457	406	397	10.9
Economics	344	356	327	405	418	459	428	517	505	470	552	60.5

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Political science and government	459	459	425	441	483	522	488	536	593	574	621	35.3
Sociology	417	472	440	463	506	519	511	512	516	545	598	43.4
Other social sciences	780	865	890	987	996	1,045	1,126	1,263	1,326	1,355	1,423	82.4
Engineering	2,288	2,500	2,546	2,958	3,166	3,332	3,350	3,579	3,767	4,066	4,223	84.6
Aerospace, aeronautical, and astronautical engineering	98	90	118	122	160	141	145	181	194	246	216	120.4
Bioengineering and biomedical engineering	229	306	342	469	513	516	564	602	637	674	725	216.6
Chemical engineering	306	359	310	396	411	433	393	377	365	445	488	59.5
Civil engineering	192	195	221	207	262	231	216	159	182	229	230	19.8
Electrical, electronics, and communications engineering	480	478	492	558	578	627	617	614	603	575	632	31.7
Industrial and manufacturing engineering	75	69	73	90	70	62	100	75	77	91	65	-13.3
Materials science engineering	177	216	251	266	254	313	278	350	349	363	382	115.8
Mechanical engineering	301	353	332	371	421	403	440	505	547	558	620	106.0
Other engineering	430	434	407	479	497	606	597	716	813	885	865	101.2
Education	5,255	5,171	5,358	5,584	5,584	4,477	3,878	4,040	4,118	3,934	4,209	-19.9
Education administration	1,950	1,861	1,927	2,025	1,979	1,296	833	936	844	763	798	-59.1
Education research	2,263	2,314	2,178	2,207	2,230	2,059	1,989	2,143	2,216	2,103	2,282	0.8
Teacher education	211	198	238	236	260	203	156	134	90	132	132	-37.4
Teaching fields	516	531	675	721	743	647	679	613	741	733	765	48.3
Other education	315	267	340	395	372	272	221	214	227	203	232	-26.3
Humanities and arts	4,036	4,240	3,894	3,744	3,893	4,030	4,192	4,435	4,535	4,362	4,480	11.0
Foreign languages and literature	400	413	402	389	385	389	426	472	467	469	463	15.8
History	779	845	791	802	880	843	893	890	947	968	942	20.9
Letters	1,180	1,234	1,086	1,199	1,169	1,287	1,289	1,383	1,354	1,305	1,360	15.3
Other humanities and arts	1,677	1,748	1,615	1,354	1,459	1,511	1,584	1,690	1,767	1,620	1,715	2.3
Other <sup>b</sup>	1,477	1,544	1,614	1,647	1,747	1,691	1,693	1,650	1,850	1,825	1,881	27.4
Business management and administration	631	673	743	703	780	746	755	736	831	849	893	41.5
Communication	334	360	382	402	443	468	473	426	471	473	480	43.7
Non-S&E fields not elsewhere classified	512	511	489	542	524	477	465	488	548	503	508	-0.8
Unknown field	0	0	0	0	0	0	0	0	0	0	0	-
Temporary visa holder	12,832	14,198	15,123	15,261	14,737	13,636	14,235	14,784	15,674	15,842	16,155	25.9

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Life sciences	2,553	2,723	3,039	3,252	3,097	2,926	3,029	3,197	3,177	3,169	3,262	27.8
Agricultural sciences and natural resources	484	463	538	492	509	412	472	529	516	504	558	15.3
Biological and biomedical sciences	1,681	1,857	2,030	2,302	2,190	2,084	2,124	2,166	2,154	2,229	2,261	34.5
Health sciences	388	403	471	458	398	430	433	502	507	436	443	14.2
Physical sciences and earth sciences	1,788	1,976	2,059	2,027	2,029	1,884	1,955	1,959	2,032	2,196	2,104	17.7
Chemistry	801	956	951	879	890	847	907	880	888	1,000	933	16.5
Geosciences, atmospheric, and ocean sciences	234	244	283	293	295	251	246	281	290	326	307	31.2
Physics and astronomy	753	776	825	855	844	786	802	798	854	870	864	14.7
Mathematics and computer sciences	1,200	1,462	1,591	1,656	1,504	1,446	1,449	1,617	1,833	1,851	1,924	60.3
Computer and information sciences	598	797	897	1,005	791	760	759	870	990	1,030	1,096	83.3
Mathematics and statistics	602	665	694	651	713	686	690	747	843	821	828	37.5
Psychology and social sciences	1,464	1,485	1,482	1,618	1,720	1,553	1,588	1,601	1,634	1,549	1,625	11.0
Psychology	209	247	233	249	258	270	238	254	282	249	260	24.4
Anthropology	67	43	68	63	81	88	73	74	76	86	69	3.0
Economics	668	612	600	621	656	556	623	656	615	627	607	-9.1
Political science and government	130	135	127	160	178	162	150	150	163	145	178	36.9
Sociology	84	96	95	119	139	95	113	85	92	90	101	20.2
Other social sciences	306	352	359	406	408	382	391	382	406	352	410	34.0
Engineering	3,756	4,295	4,591	4,492	4,221	3,866	4,164	4,355	4,759	4,963	5,122	36.4
Aerospace, aeronautical, and astronautical engineering	115	117	118	127	126	99	100	107	138	124	132	14.8
Bioengineering and biomedical engineering	167	200	257	265	280	290	291	292	352	318	349	109.0
Chemical engineering	408	400	449	439	383	359	379	414	409	482	461	13.0
Civil engineering	402	416	437	468	419	378	373	303	333	340	360	-10.4
Electrical, electronics, and communications engineering	983	1,222	1,298	1,219	1,050	1,040	1,109	1,181	1,160	1,217	1,243	26.4
Industrial and manufacturing engineering	128	144	171	175	175	142	152	140	156	185	161	25.8
Materials science engineering	289	335	361	339	352	326	350	334	435	420	450	55.7
Mechanical engineering	543	649	671	651	646	519	568	631	664	686	784	44.4
Other engineering	721	812	829	809	790	713	842	953	1,112	1,191	1,182	63.9
Education	536	611	601	567	567	478	497	460	515	478	539	0.6
Education administration	78	74	63	61	47	35	41	46	44	39	35	-55.1

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Education research	283	335	321	303	315	277	294	278	319	265	327	15.5
Teacher education	29	32	27	27	32	19	26	13	17	14	13	-55.2
Teaching fields	109	123	151	136	119	112	96	101	116	134	145	33.0
Other education	37	47	39	40	54	35	40	22	19	26	19	-48.6
Humanities and arts	806	796	797	723	729	667	767	761	779	731	713	-11.5
Foreign languages and literature	173	175	170	190	183	179	180	160	179	142	151	-12.7
History	102	97	101	122	131	113	131	136	134	147	131	28.4
Letters	151	160	153	145	158	134	157	141	150	140	122	-19.2
Other humanities and arts	380	364	373	266	257	241	299	324	316	302	309	-18.7
Other <sup>b</sup>	729	850	963	926	870	816	786	834	945	905	866	18.8
Business management and administration	449	537	634	619	530	499	477	542	600	589	545	21.4
Communication	128	125	135	116	145	131	132	107	133	137	137	7.0
Non-S&E fields not elsewhere classified	152	188	194	191	195	186	177	185	212	179	184	21.1
Unknown field	0	0	0	0	0	0	0	0	0	0	0	-

- = no value possible; percent change could not be calculated because there were no doctorate recipients with unknown field in 2005.

S&E = science and engineering.

<sup>a</sup> Includes respondents who did not report citizenship status.

<sup>b</sup> Non-science and engineering fields.

NOTE: See table A-6 in the technical notes for a listing of major fields and their constituent subfields.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.