

TABLE 18. Doctorate recipients, by citizenship status and major field of study: 2003–13

Citizenship status and major field of study												% change
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2003–13
All doctorate recipients ^a	40,766	42,123	43,385	45,622	48,133	48,778	49,554	48,032	48,903	50,977	52,760	29.4
Life sciences	8,508	8,813	9,310	9,704	10,702	11,086	11,403	11,258	11,449	12,038	12,305	44.6
Agricultural sciences and natural resources	1,179	1,155	1,160	1,146	1,321	1,198	1,283	1,100	1,206	1,256	1,329	12.7
Biological, biomedical sciences	5,696	5,940	6,367	6,652	7,238	7,797	8,025	8,046	8,139	8,433	8,471	48.7
Health sciences	1,633	1,718	1,783	1,906	2,143	2,091	2,095	2,112	2,104	2,349	2,505	53.4
Physical sciences	5,831	6,047	6,693	7,464	7,999	8,133	8,324	8,310	8,664	8,951	9,290	59.3
Chemistry	2,041	1,986	2,126	2,364	2,318	2,246	2,392	2,304	2,432	2,421	2,491	22.0
Computer and information sciences	866	948	1,129	1,453	1,655	1,787	1,610	1,664	1,713	1,843	1,897	119.1
Geosciences	683	686	714	757	875	865	877	862	852	841	880	28.8
Mathematics	993	1,076	1,205	1,325	1,388	1,400	1,553	1,590	1,606	1,703	1,817	83.0
Physics and astronomy	1,248	1,351	1,519	1,565	1,763	1,835	1,892	1,890	2,061	2,143	2,205	76.7
Social sciences	7,004	7,043	7,045	7,124	7,198	7,515	7,829	7,769	8,091	8,343	8,401	19.9
Anthropology	472	531	456	472	512	483	503	507	553	547	552	16.9
Economics	932	959	1,061	1,029	1,004	1,091	1,118	1,073	1,121	1,243	1,185	27.1
Political science	661	587	618	616	588	628	682	728	685	725	803	21.5
Psychology	3,277	3,327	3,322	3,260	3,276	3,358	3,472	3,422	3,578	3,604	3,600	9.9
Sociology	597	580	536	579	576	601	662	639	657	632	636	6.5
Other social sciences	1,065	1,059	1,052	1,168	1,242	1,354	1,392	1,400	1,497	1,592	1,625	52.6
Engineering	5,280	5,777	6,426	7,186	7,749	7,864	7,643	7,548	7,986	8,426	8,963	69.8
Aerospace, aeronautical, and astronautical engineering	200	201	219	238	267	266	297	252	262	307	349	74.5
Chemical engineering	568	638	774	799	817	873	807	822	823	840	829	46.0
Civil engineering	551	547	622	655	703	713	707	643	634	496	543	-1.5
Electrical, electronics, and communication engineering	1,237	1,389	1,547	1,786	1,967	1,888	1,693	1,778	1,886	1,941	1,900	53.6
Industrial and manufacturing engineering	214	217	221	234	279	280	251	215	258	227	240	12.1
Materials science engineering	437	475	493	583	646	636	625	670	662	743	815	86.5
Mechanical engineering	752	754	892	1,045	1,071	1,082	1,095	983	1,084	1,220	1,282	70.5
Other engineering	1,321	1,556	1,658	1,846	1,999	2,126	2,168	2,185	2,377	2,652	3,005	127.5
Education	6,651	6,635	6,227	6,122	6,448	6,561	6,528	5,288	4,670	4,803	4,944	-25.7
Education administration	2,362	2,342	2,167	2,051	2,161	2,238	2,146	1,439	924	1,057	967	-59.1
Education research	2,720	2,805	2,674	2,751	2,671	2,640	2,663	2,443	2,438	2,569	2,704	-0.6
Teacher education	242	270	263	250	297	274	332	245	204	156	111	-54.1
Teaching fields	714	758	663	707	873	912	906	800	805	757	895	25.4
Other education	613	460	460	363	446	497	481	361	299	264	267	-56.4
Humanities	5,192	5,210	5,141	5,326	5,092	4,719	4,891	4,971	5,210	5,499	5,662	9.1
Foreign languages and literature	623	587	607	615	607	627	598	601	644	684	701	12.5
History	941	976	924	973	937	971	1,045	1,005	1,065	1,087	1,149	22.1
Letters	1,416	1,407	1,389	1,457	1,340	1,420	1,413	1,516	1,514	1,638	1,604	13.3
Other humanities	2,212	2,240	2,221	2,281	2,208	1,701	1,835	1,849	1,987	2,090	2,208	-0.2
Other ^b	2,300	2,598	2,543	2,696	2,945	2,900	2,936	2,888	2,833	2,917	3,195	38.9
Business management and administration	1,036	1,256	1,171	1,311	1,506	1,421	1,405	1,365	1,327	1,404	1,545	49.1
Communication	415	450	488	510	560	557	627	638	650	595	649	56.4

TABLE 18. Doctorate recipients, by citizenship status and major field of study: 2003–13

Citizenship status and major field of study	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	% change
												2003–13
Non-S&E fields not elsewhere classified	849	892	883	871	876	922	904	885	856	918	1,001	17.9
Unknown field	0	0	1	4	3	0	0	0	0	0	0	-
U.S. citizen or permanent resident	28,172	28,039	27,945	29,027	29,499	30,843	32,328	31,601	31,726	32,985	33,942	20.5
Life sciences	5,899	6,082	6,282	6,506	7,009	7,279	7,803	7,774	7,848	8,254	8,438	43.0
Agricultural sciences and natural resources	609	611	599	631	686	647	712	618	697	675	738	21.2
Biological, biomedical sciences	4,066	4,206	4,392	4,504	4,833	5,141	5,528	5,584	5,614	5,878	5,851	43.9
Health sciences	1,224	1,265	1,291	1,371	1,490	1,491	1,563	1,572	1,537	1,701	1,849	51.1
Physical sciences	3,369	3,258	3,355	3,686	3,809	4,044	4,420	4,521	4,724	4,776	4,869	44.5
Chemistry	1,267	1,185	1,212	1,276	1,190	1,231	1,391	1,323	1,407	1,386	1,447	14.2
Computer and information sciences	447	448	468	588	640	697	734	786	819	818	782	74.9
Geosciences	452	438	444	473	551	536	559	573	555	538	569	25.9
Mathematics	517	511	543	619	602	673	772	838	813	842	871	68.5
Physics and astronomy	686	676	688	730	826	907	964	1,001	1,130	1,192	1,200	74.9
Social sciences	5,303	5,241	5,157	5,280	5,171	5,491	5,618	5,695	5,957	6,189	6,300	18.8
Anthropology	394	445	358	404	410	400	403	384	455	445	456	15.7
Economics	363	359	344	356	327	405	418	459	428	517	504	38.8
Political science	508	471	459	459	425	441	483	522	488	536	593	16.7
Psychology	2,867	2,796	2,894	2,825	2,779	2,892	2,908	2,874	3,062	3,047	3,070	7.1
Sociology	480	455	417	472	439	463	506	518	511	511	515	7.3
Other social sciences	691	715	685	764	791	890	900	938	1,013	1,133	1,162	68.2
Engineering	2,180	2,190	2,288	2,499	2,545	2,958	3,167	3,307	3,321	3,546	3,738	71.5
Aerospace, aeronautical, and astronautical engineering	80	77	98	90	118	122	160	141	145	181	195	143.8
Chemical engineering	282	295	306	359	310	396	411	433	393	377	364	29.1
Civil engineering	203	178	192	195	221	207	262	231	216	160	182	-10.3
Electrical, electronics, and communication engineering	416	433	480	478	492	558	578	627	617	613	603	45.0
Industrial and manufacturing engineering	71	77	75	69	73	90	70	62	100	75	77	8.5
Materials science engineering	181	197	177	216	250	266	254	313	278	350	350	93.4
Mechanical engineering	318	273	301	352	332	371	421	403	440	505	546	71.7
Other engineering	629	660	659	740	749	948	1,011	1,097	1,132	1,285	1,421	125.9
Education	5,650	5,452	5,255	5,171	5,358	5,584	5,584	4,477	3,878	4,039	4,120	-27.1
Education administration	2,094	1,989	1,950	1,861	1,927	2,025	1,979	1,296	833	936	843	-59.7
Education research	2,338	2,343	2,263	2,314	2,178	2,207	2,230	2,059	1,989	2,142	2,217	-5.2
Teacher education	206	216	211	198	238	236	260	203	156	134	92	-55.3
Teaching fields	581	586	516	531	675	721	743	647	679	613	741	27.5
Other education	431	318	315	267	340	395	372	272	221	214	227	-47.3
Humanities	4,284	4,233	4,026	4,249	3,908	3,742	3,888	4,025	4,190	4,396	4,520	5.5
Foreign languages and literature	469	433	400	413	402	389	385	389	426	472	466	-0.6
History	833	858	779	845	791	801	880	843	893	890	945	13.4
Letters	1,221	1,197	1,180	1,234	1,086	1,199	1,169	1,287	1,289	1,383	1,349	10.5
Other humanities	1,761	1,745	1,667	1,757	1,629	1,353	1,454	1,506	1,582	1,651	1,760	-0.1

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												2003–13
Other ^b	1,487	1,583	1,582	1,636	1,699	1,745	1,848	1,802	1,808	1,785	1,957	31.6
Business management and administration	615	647	631	673	743	703	780	745	755	737	829	34.8
Communication	287	325	334	360	382	402	443	468	473	426	470	63.8
Non-S&E fields not elsewhere classified	585	611	617	603	574	640	625	589	580	622	658	12.5
Unknown field	0	0	0	0	0	0	0	0	0	0	0	-
Temporary visa holder	10,595	11,621	12,831	14,190	15,123	15,252	14,719	13,627	14,223	14,775	15,678	48.0
Life sciences	2,224	2,315	2,553	2,722	3,039	3,250	3,094	2,908	3,006	3,190	3,169	42.5
Agricultural sciences and natural resources	497	480	484	463	538	492	508	412	471	529	516	3.8
Biological, biomedical sciences	1,398	1,470	1,681	1,856	2,030	2,300	2,188	2,083	2,123	2,181	2,171	55.3
Health sciences	329	365	388	403	471	458	398	413	412	480	482	46.5
Physical sciences	2,236	2,557	2,987	3,436	3,650	3,680	3,527	3,352	3,433	3,603	3,913	75.0
Chemistry	689	722	801	956	951	878	888	847	906	879	891	29.3
Computer and information sciences	379	459	597	797	897	1,005	788	766	769	887	1,016	168.1
Geosciences	201	224	234	243	283	293	295	251	246	266	274	36.3
Mathematics	440	528	602	665	694	651	713	685	690	746	843	91.6
Physics and astronomy	527	624	753	775	825	853	843	803	822	825	889	68.7
Social sciences	1,301	1,299	1,458	1,483	1,475	1,611	1,706	1,547	1,576	1,585	1,623	24.8
Anthropology	56	62	67	43	68	63	81	88	72	74	77	37.5
Economics	528	551	668	612	600	621	656	555	623	656	617	16.9
Political science	123	88	130	135	127	160	178	162	150	150	163	32.5
Psychology	196	188	209	247	233	249	258	270	238	254	282	43.9
Sociology	82	103	84	96	95	119	139	95	113	85	93	13.4
Other social sciences	316	307	300	350	352	399	394	377	380	366	391	23.7
Engineering	2,913	3,311	3,756	4,292	4,591	4,490	4,216	3,857	4,148	4,334	4,731	62.4
Aerospace, aeronautical, and astronautical engineering	111	116	115	117	118	127	126	99	100	107	136	22.5
Chemical engineering	274	306	408	400	449	439	383	359	379	413	414	51.1
Civil engineering	333	350	402	416	437	468	418	377	373	303	334	0.3
Electrical, electronics, and communication engineering	778	871	983	1,221	1,298	1,218	1,048	1,040	1,108	1,178	1,161	49.2
Industrial and manufacturing engineering	138	135	128	144	171	175	142	151	140	155	155	12.3
Materials science engineering	242	259	289	335	361	338	350	326	349	334	434	79.3
Mechanical engineering	404	456	543	649	671	651	646	519	568	630	667	65.1
Other engineering	633	818	888	1,010	1,086	1,074	1,070	995	1,120	1,229	1,430	125.9
Education	588	627	536	611	601	566	567	477	497	460	514	-12.6
Education administration	128	90	78	74	63	61	47	35	41	46	44	-65.6
Education research	274	316	283	335	321	302	315	276	294	278	316	15.3
Teacher education	21	30	29	32	27	27	32	19	26	13	17	-19.0
Teaching fields	99	151	109	123	151	136	119	112	96	101	117	18.2
Other education	66	40	37	47	39	40	54	35	40	22	20	-69.7
Humanities	683	736	796	776	790	697	725	646	750	737	752	10.1
Foreign languages and literature	140	127	173	175	170	190	183	179	180	159	179	27.9
History	79	85	102	97	101	121	131	112	131	136	133	68.4

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Citizenship status and major field of study	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	% change
												2003–13
Letters	142	143	151	160	153	145	156	134	157	141	149	4.9
Other humanities	322	381	370	344	366	241	255	221	282	301	291	-9.6
Other ^b	650	776	745	870	977	958	884	840	813	866	976	50.2
Business management and administration	356	474	449	536	634	619	530	498	477	541	601	68.8
Communication	103	107	128	125	135	116	145	131	132	107	135	31.1
Non-S&E fields not elsewhere classified	191	195	168	209	208	223	209	211	204	218	240	25.7
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 2003.

S&E = science and engineering.

^a Includes respondents who did not report citizenship status: 1,999 in 2003; 2,463 in 2004; 2,609 in 2005; 2,405 in 2006; 3,511 in 2007; 2,683 in 2008; 2,507 in 2009; 2,804 in 2010; 2,954 in 2011; 3,217 in 2012; and 3,140 in 2013.

^b Non-science and engineering fields not shown separately.

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

SOURCE: NSF, NIH, USED, USDA, NEH, NASA, Survey of Earned Doctorates.