

TABLE 15. Doctorate recipients, by sex and major field of study: 2004–14

Sex and major field of study	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	% change 2004–14
All doctorate recipients <sup>a</sup>	42,123	43,385	45,622	48,132	48,778	49,553	48,031	48,914	50,961	52,747	54,070	28.4
Life sciences	8,813	9,310	9,704	10,702	11,086	11,403	11,258	11,462	12,029	12,303	12,504	41.9
Agricultural sciences and natural resources	1,155	1,160	1,146	1,321	1,198	1,283	1,100	1,206	1,255	1,328	1,303	12.8
Biological, biomedical sciences	5,940	6,367	6,652	7,238	7,797	8,025	8,046	8,153	8,426	8,470	8,991	51.4
Health sciences	1,718	1,783	1,906	2,143	2,091	2,095	2,112	2,103	2,348	2,505	2,210	28.6
Physical sciences	6,047	6,693	7,464	7,998	8,133	8,324	8,310	8,664	8,948	9,290	9,859	63.0
Chemistry	1,986	2,126	2,364	2,318	2,246	2,392	2,304	2,432	2,418	2,484	2,673	34.6
Computer and information sciences	948	1,129	1,453	1,654	1,787	1,610	1,664	1,713	1,843	1,901	2,072	118.6
Geosciences	686	714	757	875	865	877	862	852	841	881	989	44.2
Mathematics	1,076	1,205	1,325	1,388	1,400	1,553	1,590	1,606	1,703	1,819	1,879	74.6
Physics and astronomy	1,351	1,519	1,565	1,763	1,835	1,892	1,890	2,061	2,143	2,205	2,246	66.2
Social sciences	7,043	7,045	7,124	7,198	7,515	7,829	7,769	8,090	8,342	8,393	8,657	22.9
Anthropology	531	456	472	512	483	503	507	553	547	550	527	-0.8
Economics	959	1,061	1,029	1,004	1,091	1,118	1,073	1,121	1,243	1,184	1,194	24.5
Political science	587	618	616	588	628	682	728	685	724	803	776	32.2
Psychology	3,327	3,322	3,260	3,276	3,358	3,472	3,422	3,577	3,603	3,595	3,765	13.2
Sociology	580	536	579	576	601	662	639	657	633	636	678	16.9
Other social sciences	1,059	1,052	1,168	1,242	1,354	1,392	1,400	1,497	1,592	1,625	1,717	62.1
Engineering	5,777	6,426	7,186	7,749	7,864	7,642	7,547	7,986	8,422	8,952	9,568	65.6
Aerospace, aeronautical, and astronautical engineering	201	219	238	267	266	297	252	262	307	348	387	92.5
Chemical engineering	638	774	799	817	873	807	822	823	840	826	975	52.8
Civil engineering	547	622	655	703	713	707	643	634	496	543	622	13.7
Electrical, electronics, and communication engineering	1,389	1,547	1,786	1,967	1,888	1,693	1,778	1,886	1,940	1,897	1,957	40.9
Industrial and manufacturing engineering	217	221	234	279	280	251	215	258	226	241	298	37.3
Materials science engineering	475	493	583	646	636	625	670	662	743	815	836	76.0
Mechanical engineering	754	892	1,045	1,071	1,082	1,095	983	1,084	1,220	1,281	1,332	76.7
Other engineering	1,556	1,658	1,846	1,999	2,126	2,167	2,184	2,377	2,650	3,001	3,161	103.1
Education	6,635	6,227	6,122	6,448	6,561	6,528	5,288	4,670	4,803	4,942	4,793	-27.8
Education administration	2,342	2,167	2,051	2,161	2,238	2,146	1,439	924	1,057	966	895	-61.8
Education research	2,805	2,674	2,751	2,671	2,640	2,663	2,443	2,438	2,569	2,708	2,558	-8.8
Teacher education	270	263	250	297	274	332	245	204	156	111	153	-43.3
Teaching fields	758	663	707	873	912	906	800	805	757	892	919	21.2
Other education	460	460	363	446	497	481	361	299	264	265	268	-41.7
Humanities	5,210	5,141	5,326	5,092	4,719	4,891	4,971	5,209	5,499	5,666	5,486	5.3
Foreign languages and literature	587	607	615	607	627	598	601	644	684	702	676	15.2
History	976	924	973	937	971	1,045	1,005	1,065	1,087	1,148	1,182	21.1
Letters	1,407	1,389	1,457	1,340	1,420	1,413	1,516	1,513	1,638	1,605	1,553	10.4
Other humanities	2,240	2,221	2,281	2,208	1,701	1,835	1,849	1,987	2,090	2,211	2,075	-7.4

TABLE 15. Doctorate recipients, by sex and major field of study: 2004–14

Sex and major field of study	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	% change 2004–14
Other <sup>b</sup>	2,598	2,543	2,696	2,945	2,900	2,936	2,888	2,833	2,918	3,201	3,203	23.3
Business management and administration	1,256	1,171	1,311	1,506	1,421	1,405	1,365	1,327	1,404	1,552	1,583	26.0
Communication	450	488	510	560	557	627	638	650	595	648	664	47.6
Non-S&E fields not elsewhere classified	892	883	871	876	922	904	885	856	919	1,001	956	7.2
Unknown field	0	1	4	3	0	0	0	0	0	0	0	-
Male	22,966	23,737	25,021	26,202	26,272	26,332	25,526	26,192	27,370	28,351	29,049	26.5
Life sciences	4,450	4,561	4,690	5,197	5,223	5,183	5,060	5,185	5,327	5,498	5,468	22.9
Agricultural sciences and natural resources	726	744	698	802	700	722	609	652	698	704	673	-7.3
Biological, biomedical sciences	3,183	3,253	3,377	3,708	3,861	3,834	3,823	3,879	3,934	3,986	4,134	29.9
Health sciences	541	564	615	687	662	627	628	654	695	808	661	22.2
Physical sciences	4,440	4,923	5,395	5,754	5,858	5,861	5,855	6,182	6,392	6,591	7,004	57.7
Chemistry	1,350	1,403	1,551	1,486	1,479	1,491	1,440	1,508	1,522	1,497	1,643	21.7
Computer and information sciences	749	905	1,142	1,322	1,387	1,260	1,312	1,350	1,464	1,554	1,657	121.2
Geosciences	448	470	490	542	548	539	496	522	496	498	580	29.5
Mathematics	771	877	932	985	966	1,067	1,123	1,144	1,219	1,291	1,336	73.3
Physics and astronomy	1,122	1,268	1,280	1,419	1,478	1,504	1,484	1,658	1,691	1,751	1,788	59.4
Social sciences	3,143	3,111	3,030	2,981	3,125	3,257	3,306	3,278	3,479	3,416	3,477	10.6
Anthropology	238	199	203	196	189	195	201	223	187	188	197	-17.2
Economics	674	741	717	684	717	735	703	734	840	768	784	16.3
Political science	391	373	396	345	367	409	434	389	420	469	433	10.7
Psychology	1,081	1,058	936	941	999	991	1,033	1,003	1,040	999	1,072	-0.8
Sociology	240	201	216	216	235	263	250	254	230	259	248	3.3
Other social sciences	519	539	562	599	618	664	685	675	762	733	743	43.2
Engineering	4,756	5,226	5,729	6,141	6,168	6,006	5,803	6,204	6,523	6,902	7,349	54.5
Aerospace, aeronautical, and astronautical engineering	177	190	212	236	238	255	215	228	268	293	331	87.0
Chemical engineering	488	590	583	620	641	591	574	566	583	567	684	40.2
Civil engineering	461	503	538	538	568	559	473	486	389	417	470	2.0
Electrical, electronics, and communication engineering	1,195	1,338	1,535	1,662	1,568	1,433	1,462	1,579	1,596	1,616	1,618	35.4
Industrial and manufacturing engineering	174	177	167	201	201	186	159	180	164	176	209	20.1
Materials science engineering	390	380	430	482	482	466	495	496	556	598	619	58.7
Mechanical engineering	670	778	901	940	930	942	858	934	1,042	1,085	1,128	68.4
Other engineering	1,201	1,270	1,363	1,462	1,540	1,574	1,567	1,735	1,925	2,150	2,290	90.7
Education	2,264	2,065	2,130	2,103	2,158	2,161	1,662	1,432	1,500	1,573	1,467	-35.2
Education administration	908	844	839	805	892	838	547	349	389	373	371	-59.1
Education research	845	809	866	816	763	819	706	699	761	828	721	-14.7
Teacher education	72	63	63	72	58	92	59	38	43	22	35	-51.4
Teaching fields	263	205	248	281	289	275	234	250	229	275	267	1.5
Other education	176	144	114	129	156	137	116	96	78	75	73	-58.5

TABLE 15. Doctorate recipients, by sex and major field of study: 2004–14

Sex and major field of study	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	% change 2004–14
Humanities	2,516	2,549	2,651	2,580	2,256	2,355	2,402	2,527	2,654	2,762	2,697	7.2
Foreign languages and literature	220	240	236	237	220	224	218	248	238	271	248	12.7
History	568	539	575	553	561	608	556	586	603	632	661	16.4
Letters	569	558	618	569	527	524	625	616	659	665	659	15.8
Other humanities	1,159	1,212	1,222	1,221	948	999	1,003	1,077	1,154	1,194	1,129	-2.6
Other <sup>b</sup>	1,397	1,302	1,396	1,446	1,484	1,509	1,438	1,384	1,495	1,609	1,587	13.6
Business management and administration	800	696	798	863	861	872	813	792	837	909	907	13.4
Communication	185	214	220	209	232	263	247	233	244	246	278	50.3
Non-S&E fields not elsewhere classified	412	392	377	374	391	374	378	359	414	454	402	-2.4
Unknown field	0	0	1	0	0	0	0	0	0	0	0	-
Female	19,155	19,582	20,560	21,904	22,495	23,187	22,489	22,700	23,535	24,384	24,857	29.8
Life sciences	4,363	4,735	5,007	5,497	5,859	6,210	6,193	6,274	6,686	6,802	6,998	60.4
Agricultural sciences and natural resources	429	413	448	516	498	559	490	554	554	624	629	46.6
Biological, biomedical sciences	2,757	3,106	3,271	3,529	3,934	4,185	4,219	4,272	4,482	4,481	4,825	75.0
Health sciences	1,177	1,216	1,288	1,452	1,427	1,466	1,484	1,448	1,650	1,697	1,544	31.2
Physical sciences	1,606	1,763	2,064	2,242	2,273	2,450	2,454	2,476	2,548	2,696	2,820	75.6
Chemistry	635	723	810	832	767	895	864	922	895	985	1,020	60.6
Computer and information sciences	199	221	311	332	400	349	352	361	379	347	407	104.5
Geosciences	238	244	266	333	316	338	366	330	345	382	408	71.4
Mathematics	305	326	393	402	433	483	467	460	481	528	535	75.4
Physics and astronomy	229	249	284	343	357	385	405	403	448	454	450	96.5
Social sciences	3,900	3,929	4,089	4,214	4,390	4,570	4,462	4,811	4,859	4,975	5,155	32.2
Anthropology	293	256	269	316	294	308	306	330	360	362	330	12.6
Economics	285	318	310	319	374	382	369	387	402	416	404	41.8
Political science	196	245	220	242	261	272	294	296	303	333	342	74.5
Psychology	2,246	2,263	2,322	2,335	2,359	2,481	2,389	2,574	2,562	2,595	2,678	19.2
Sociology	340	335	363	360	366	399	389	403	402	377	430	26.5
Other social sciences	540	512	605	642	736	728	715	821	830	892	971	79.8
Engineering	1,021	1,182	1,452	1,605	1,693	1,631	1,741	1,774	1,882	2,048	2,179	113.4
Aerospace, aeronautical, and astronautical engineering	24	29	25	31	28	41	37	34	39	55	55	129.2
Chemical engineering	150	183	216	197	232	216	248	256	256	259	290	93.3
Civil engineering	86	118	117	165	145	148	169	147	106	126	147	70.9
Electrical, electronics, and communication engineering	194	205	250	304	319	260	315	301	336	279	326	68.0
Industrial and manufacturing engineering	43	41	67	78	79	65	55	78	62	65	89	107.0
Materials science engineering	85	112	152	164	154	159	175	166	184	217	213	150.6
Mechanical engineering	84	114	144	131	152	152	125	150	177	196	197	134.5
Other engineering	355	380	481	535	584	590	617	642	722	851	862	142.8
Education	4,370	4,152	3,985	4,344	4,402	4,366	3,624	3,234	3,299	3,369	3,316	-24.1
Education administration	1,434	1,319	1,211	1,356	1,346	1,308	892	574	665	593	524	-63.5

TABLE 15. Doctorate recipients, by sex and major field of study: 2004–14

Sex and major field of study	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	% change 2004–14
Education research	1,959	1,862	1,884	1,854	1,876	1,844	1,736	1,736	1,808	1,880	1,828	-6.7
Teacher education	198	199	186	225	216	240	186	166	113	89	118	-40.4
Teaching fields	495	457	457	592	623	630	566	555	527	617	651	31.5
Other education	284	315	247	317	341	344	244	203	186	190	195	-31.3
Humanities	2,694	2,586	2,670	2,510	2,463	2,535	2,568	2,682	2,843	2,903	2,785	3.4
Foreign languages and literature	367	366	379	370	407	374	382	396	446	431	426	16.1
History	408	384	398	384	410	437	449	479	484	516	520	27.5
Letters	838	831	839	771	893	888	891	897	978	940	894	6.7
Other humanities	1,081	1,005	1,054	985	753	836	846	910	935	1,016	945	-12.6
Other <sup>b</sup>	1,201	1,235	1,293	1,492	1,415	1,425	1,447	1,449	1,418	1,591	1,604	33.6
Business management and administration	456	471	507	638	560	533	550	535	564	642	670	46.9
Communication	265	273	290	351	325	364	390	417	350	402	383	44.5
Non-S&E fields not elsewhere classified	480	490	493	500	530	528	507	497	504	547	551	14.8
Unknown field	0	1	3	3	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 2004.

S&E = science and engineering.

<sup>a</sup> Includes respondents who did not report sex: 2 in 2004, 66 in 2005, 41 in 2006, 26 in 2007, 11 in 2008, 34 in 2009, 16 in 2010, 22 in 2011, 56 in 2012, 12 in 2013, and 164 in 2014.

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