

**Table 51. Definite postgraduation commitments of doctorate recipients, by citizenship status and major field of study: 2015**

Citizenship status and major field of study	All recipients	Recipients with definite commitments	Location of definite commitments						
			United States					Abroad	Unknown
			Total	Postdoctoral study	Academic employment	Industry employment <sup>a</sup>	Other <sup>b</sup>		
All doctorate recipients <sup>c</sup>	55,006	27,787	24,972	9,812	7,356	4,914	2,890	2,765	50
Life sciences	12,520	6,154	5,631	3,609	920	669	433	520	3
Agricultural sciences and natural resources	1,439	711	600	296	130	115	59	111	0
Biological and biomedical sciences	8,801	4,317	3,977	2,984	355	452	186	338	2
Health sciences	2,280	1,126	1,054	329	435	102	188	71	1
Physical sciences and earth sciences	5,924	3,092	2,735	1,705	246	667	117	356	1
Chemistry	2,675	1,304	1,209	760	101	316	32	95	0
Geosciences, atmospheric, and ocean sciences	1,057	627	552	352	70	88	42	74	1
Physics and astronomy	2,192	1,161	974	593	75	263	43	187	0
Mathematics and computer sciences	3,825	2,207	1,961	599	441	804	117	238	8
Computer and information sciences	2,005	1,113	1,009	204	187	552	66	98	6
Mathematics and statistics	1,820	1,094	952	395	254	252	51	140	2
Psychology and social sciences	9,095	4,949	4,350	1,660	1,604	437	649	592	7
Psychology	3,782	2,099	2,019	1,172	389	214	244	78	2
Anthropology	493	192	157	58	72	7	20	35	0
Economics	1,256	829	592	82	270	114	126	236	1
Political science and government	859	454	379	91	220	16	52	75	0
Sociology	745	420	375	95	216	18	46	D	D
Other social sciences	1,960	955	828	162	437	68	161	D	D
Engineering	9,897	4,758	4,269	1,506	399	1,992	372	472	17
Aerospace, aeronautical, and astronautical engineering	361	188	173	56	17	55	45	15	0
Bioengineering and biomedical engineering	1,129	519	468	273	32	144	19	51	0
Chemical engineering	1,002	493	451	163	14	256	18	D	D
Civil engineering	633	282	246	100	41	78	27	D	D
Electrical, electronics, and communications engineering	2,004	1,003	921	240	52	554	75	78	4
Industrial and manufacturing engineering	244	115	96	13	24	51	8	19	0

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Materials science engineering	874	415	368	161	18	174	15	46	1
Mechanical engineering	1,467	684	620	226	73	277	44	62	2
Other engineering	2,183	1,059	926	274	128	403	121	126	7
Education	5,117	2,612	2,462	217	1,334	101	810	144	6
Education administration	922	489	467	7	195	14	251	21	1
Education research	2,783	1,444	1,370	154	753	70	393	72	2
Teacher education	155	D	D	D	39	D	22	D	0
Teaching fields	957	492	446	43	279	10	114	43	3
Other education	300	D	D	D	68	D	30	D	0
Humanities and arts	5,600	2,402	2,148	390	1,383	100	275	249	5
Foreign languages and literature	656	290	262	29	203	7	23	D	D
History	1,145	519	447	116	258	17	56	71	1
Letters	1,590	706	659	108	479	31	41	D	D
Other humanities and arts	2,209	887	780	137	443	45	155	106	1
Other <sup>d</sup>	3,028	1,613	1,416	126	1,029	144	117	194	3
Business management and administration	1,588	936	807	37	621	98	51	128	1
Communication	668	321	295	35	232	15	13	24	2
Non-S&E fields not elsewhere classified	772	356	314	54	176	31	53	42	0
Unknown field	0	0	0	0	0	0	0	0	0
U.S. citizen or permanent resident	35,117	19,369	18,499	6,693	6,261	2,834	2,711	847	23
Life sciences	8,484	4,459	4,278	2,564	805	500	409	D	D
Agricultural sciences and natural resources	774	442	420	176	108	82	54	22	0
Biological and biomedical sciences	6,043	3,096	2,951	2,138	301	338	174	D	D
Health sciences	1,667	921	907	250	396	80	181	13	1
Physical sciences and earth sciences	3,481	2,019	1,846	1,082	203	449	112	173	0
Chemistry	1,574	877	830	490	83	226	31	47	0
Geosciences, atmospheric, and ocean sciences	704	441	408	250	60	58	40	33	0
Physics and astronomy	1,203	701	608	342	60	165	41	93	0

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Mathematics and computer sciences	1,661	1,055	989	295	300	298	96	64	2
Computer and information sciences	773	482	458	83	124	197	54	22	2
Mathematics and statistics	888	573	531	212	176	101	42	42	0
Psychology and social sciences	6,698	3,995	3,831	1,488	1,395	360	588	160	4
Psychology	3,107	1,953	1,922	1,110	371	203	238	30	1
Anthropology	397	164	144	D	66	D	D	20	0
Economics	552	401	377	D	183	D	88	24	0
Political science and government	621	355	330	68	194	16	52	25	0
Sociology	598	367	349	D	203	17	D	D	D
Other social sciences	1,423	755	709	124	378	60	147	D	D
Engineering	4,223	2,255	2,153	644	241	933	335	95	7
Aerospace, aeronautical, and astronautical engineering	216	125	D	D	D	43	43	D	0
Bioengineering and biomedical engineering	725	339	317	164	26	109	18	22	0
Chemical engineering	488	256	248	78	7	150	13	D	D
Civil engineering	230	112	D	31	22	29	D	D	0
Electrical, electronics, and communications engineering	632	374	360	78	38	177	67	D	D
Industrial and manufacturing engineering	65	36	36	D	10	18	D	0	0
Materials science engineering	382	205	188	58	D	102	D	17	0
Mechanical engineering	620	317	303	95	43	123	42	13	1
Other engineering	865	491	473	113	67	182	111	14	4
Education	4,209	2,381	2,343	187	1,269	94	793	34	4
Education administration	798	475	D	D	D	14	251	D	1
Education research	2,282	1,306	1,292	D	717	D	377	13	1
Teacher education	132	D	D	D	D	D	22	D	0
Teaching fields	765	423	414	36	D	D	113	7	2
Other education	232	D	108	8	D	D	30	D	0
Humanities and arts	4,480	2,085	1,972	337	1,270	D	D	D	D
Foreign languages and literature	463	218	210	23	159	D	D	8	0

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History	942	450	410	96	241	17	56	40	0
Letters	1,360	648	625	D	459	D	41	D	D
Other humanities and arts	1,715	769	727	D	411	D	149	42	0
Other <sup>d</sup>	1,881	1,120	1,087	96	778	D	D	30	3
Business management and administration	893	584	565	D	428	63	D	18	1
Communication	480	258	D	D	201	D	12	D	2
Non-S&E fields not elsewhere classified	508	278	D	42	149	D	53	D	0
Unknown field	0	0	0	0	0	0	0	0	0
Temporary visa holder	16,155	8,348	6,416	3,101	1,076	2,070	169	1,912	20
Life sciences	3,262	1,685	1,344	1,038	113	169	24	D	D
Agricultural sciences and natural resources	558	269	180	120	22	33	5	89	0
Biological and biomedical sciences	2,261	1,215	1,021	842	53	114	12	D	D
Health sciences	443	201	143	76	38	22	7	58	0
Physical sciences and earth sciences	2,104	1,064	881	620	41	216	4	183	0
Chemistry	933	424	376	268	18	89	1	48	0
Geosciences, atmospheric, and ocean sciences	307	183	142	102	9	30	1	41	0
Physics and astronomy	864	457	363	250	14	97	2	94	0
Mathematics and computer sciences	1,924	1,146	967	304	139	505	19	174	5
Computer and information sciences	1,096	627	548	121	62	355	10	76	3
Mathematics and statistics	828	519	419	183	77	150	9	98	2
Psychology and social sciences	1,625	939	508	168	207	76	57	428	3
Psychology	260	143	94	61	17	11	5	48	1
Anthropology	69	27	13	D	6	D	D	14	0
Economics	607	424	213	D	86	D	38	210	1
Political science and government	178	99	49	23	26	0	0	50	0
Sociology	101	50	23	D	13	0	D	27	0
Other social sciences	410	196	116	37	59	8	12	79	1
Engineering	5,122	2,491	2,107	860	157	1,053	37	376	8

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Aerospace, aeronautical, and astronautical engineering	132	63	D	D	D	12	2	D	0
Bioengineering and biomedical engineering	349	180	151	109	6	35	1	29	0
Chemical engineering	461	236	203	85	7	106	5	33	0
Civil engineering	360	170	D	69	19	49	D	28	D
Electrical, electronics, and communications engineering	1,243	623	556	162	13	373	8	D	D
Industrial and manufacturing engineering	161	79	60	D	14	33	D	19	0
Materials science engineering	450	208	178	102	D	71	D	29	1
Mechanical engineering	784	364	315	130	30	153	2	48	1
Other engineering	1,182	568	453	161	61	221	10	112	3
Education	539	223	112	29	61	7	15	110	1
Education administration	35	13	D	D	D	0	0	D	0
Education research	327	134	74	D	35	D	14	59	1
Teacher education	13	D	D	0	D	0	0	D	0
Teaching fields	145	67	31	7	D	D	1	36	0
Other education	19	D	D	D	D	0	0	D	0
Humanities and arts	713	311	172	53	109	D	D	D	D
Foreign languages and literature	151	71	52	6	44	D	D	D	D
History	131	67	35	20	15	0	0	31	1
Letters	122	58	34	D	20	D	0	24	0
Other humanities and arts	309	115	51	D	30	D	6	64	0
Other <sup>d</sup>	866	489	325	29	249	D	D	164	0
Business management and administration	545	350	240	D	191	35	D	110	0
Communication	137	62	D	D	31	D	0	D	0
Non-S&E fields not elsewhere classified	184	77	D	11	27	D	0	D	0
Unknown field	0	0	0	0	0	0	0	0	0

D = suppressed to avoid disclosure of confidential information.

**Table 51. Definite postgraduation commitments of doctorate recipients, by citizenship status and major field of study: 2015**

S&E = science and engineering.

<sup>a</sup> Includes doctorate recipients who indicated self-employment.

<sup>b</sup> Includes doctorate recipients who indicated government, nonprofit, elementary or secondary school, or other employment and those with unknown employment.

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

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

NOTES: See table A-6 in the technical notes for a listing of major fields and their constituent subfields. Definite postgraduate commitment includes doctorate recipients reporting definite postgraduation commitments for employment or postdoctoral study.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2015.