

TABLE 51

Definite postgraduation commitments of doctorate recipients, by citizenship status and major field of study: 2017
(Number)

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 ^a	Other ^b		
All doctorate recipients ^c	54,664	32,239	29,155	11,412	8,237	6,160	3,346	3,076	8
Life sciences	12,592	7,401	6,868	4,177	1,092	1,011	588	533	0
Agricultural sciences and natural resources	1,606	872	743	350	154	149	90	129	0
Biological and biomedical sciences	8,477	4,997	4,705	3,362	433	676	234	292	0
Health sciences	2,509	1,532	1,420	465	505	186	264	112	0
Physical sciences and earth sciences	6,081	3,672	3,270	1,866	331	873	200	400	2
Chemistry	2,697	1,554	1,443	777	153	461	52	110	1
Geosciences, atmospheric sciences, and ocean sciences	1,165	736	638	384	79	86	89	97	1
Physics and astronomy	2,219	1,382	1,189	705	99	326	59	193	0
Mathematics and computer sciences	3,843	2,488	2,214	631	491	958	134	273	1
Computer and information sciences	1,987	1,321	1,202	226	256	642	78	118	1
Mathematics and statistics	1,856	1,167	1,012	405	235	316	56	155	0
Psychology and social sciences	9,079	5,670	5,040	2,032	1,720	590	698	629	1
Psychology	3,960	2,561	2,478	1,463	491	249	275	83	0
Anthropology	455	234	194	84	73	13	24	40	0
Economics	1,237	910	657	91	274	187	105	252	1
Political science and government	752	476	408	116	216	25	51	68	0
Sociology	689	417	371	91	215	20	45	46	0
Other social sciences	1,986	1,072	932	187	451	96	198	140	0
Engineering	9,843	5,603	5,059	1,897	426	2,326	410	542	2
Aerospace, aeronautical, and astronautical engineering	378	225	211	58	16	82	55	14	0
Bioengineering and biomedical engineering	1,041	554	499	302	35	143	19	55	0
Chemical engineering	936	523	486	222	18	228	18	37	0
Civil engineering	741	416	361	146	49	139	27	55	0
Electrical, electronics, and communications engineering	1,900	1,161	1,047	288	57	624	78	112	2
Industrial and manufacturing engineering	253	127	106	18	36	39	13	21	0
Materials science engineering	958	515	476	220	19	214	23	39	0
Mechanical engineering	1,409	766	702	256	69	321	56	64	0
Other engineering	2,227	1,316	1,171	387	127	536	121	145	0
Education	4,823	2,863	2,684	225	1,487	134	838	179	0

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			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Education administration	1,023	588	567	18	274	23	252	21	0
Education research	2,405	1,444	1,350	140	761	81	368	94	0
Teacher education	112	74	D	0	40	D	27	D	0
Teaching fields	908	552	501	42	321	13	125	51	0
Other education	375	205	D	25	91	D	66	D	0
Humanities and arts	5,290	2,624	2,334	439	1,462	104	329	289	1
Foreign languages and literature	624	317	284	44	210	6	24	33	0
History	1,066	554	472	122	252	11	87	82	0
Letters	1,465	775	719	123	503	38	55	55	1
Other humanities and arts	2,135	978	859	150	497	49	163	119	0
Other ^d	3,113	1,918	1,686	145	1,228	164	149	231	1
Business management and administration	1,522	1,043	893	31	713	99	50	149	1
Communication	626	359	332	41	258	21	12	27	0
Non-S&E fields nec	965	516	461	73	257	44	87	55	0
U.S. citizen or permanent resident	35,791	21,908	21,115	7,624	6,854	3,537	3,100	792	1
Life sciences	8,857	5,308	5,174	2,930	962	738	544	134	0
Agricultural sciences and natural resources	902	508	491	181	125	103	82	17	0
Biological and biomedical sciences	6,082	3,609	3,503	2,409	373	509	212	106	0
Health sciences	1,873	1,191	1,180	340	464	126	250	11	0
Physical sciences and earth sciences	3,717	2,349	2,190	1,152	278	579	181	159	0
Chemistry	1,691	1,022	988	486	131	328	43	34	0
Geosciences, atmospheric sciences, and ocean sciences	787	524	484	266	74	61	83	40	0
Physics and astronomy	1,239	803	718	400	73	190	55	85	0
Mathematics and computer sciences	1,746	1,109	1,053	300	297	351	105	56	0
Computer and information sciences	796	526	507	87	138	224	58	19	0
Mathematics and statistics	950	583	546	213	159	127	47	37	0
Psychology and social sciences	6,874	4,518	4,359	1,799	1,451	462	647	159	0
Psychology	3,403	2,366	2,324	1,372	447	238	267	42	0
Anthropology	357	199	176	74	65	13	24	23	0
Economics	539	399	377	44	168	D	D	22	0
Political science and government	578	378	355	97	186	D	D	23	0
Sociology	567	363	346	80	204	D	D	17	0
Other social sciences	1,430	813	781	132	381	79	189	32	0
Engineering	4,339	2,536	2,459	792	256	1,060	351	77	0

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(Number)

Citizenship status and major field of study	All recipients	Recipients with definite commitments	Location of definite commitments							Abroad	Unknown
			United States					Other ^b			
			Total	Postdoctoral study	Academic employment	Industry employment ^a					
Aerospace, aeronautical, and astronautical engineering	240	161	D	27	D	61	54	D	0		
Bioengineering and biomedical engineering	700	380	360	197	D	D	17	20	0		
Chemical engineering	471	280	274	111	12	137	14	6	0		
Civil engineering	243	141	136	33	22	59	22	5	0		
Electrical, electronics, and communications engineering	586	352	341	84	24	180	53	11	0		
Industrial and manufacturing engineering	86	45	D	5	15	D	10	D	0		
Materials science engineering	483	267	258	102	14	120	22	9	0		
Mechanical engineering	592	332	327	91	41	143	52	5	0		
Other engineering	938	578	565	142	83	233	107	13	0		
Education	4,047	2,567	2,536	192	1,402	125	817	31	0		
Education administration	871	560	553	D	D	23	248	7	0		
Education research	2,018	1,283	1,267	D	720	D	353	16	0		
Teacher education	96	69	69	0	D	D	27	0	0		
Teaching fields	745	470	D	34	293	D	124	D	0		
Other education	317	185	D	D	D	D	65	D	0		
Humanities and arts	4,290	2,249	2,122	370	1,334	101	317	126	1		
Foreign languages and literature	433	226	217	27	161	6	23	9	0		
History	895	476	434	D	235	D	86	42	0		
Letters	1,274	710	686	D	482	D	54	23	1		
Other humanities and arts	1,688	837	785	D	456	D	154	52	0		
Other ^d	1,921	1,272	1,222	89	874	121	138	50	0		
Business management and administration	830	606	574	14	441	73	46	32	0		
Communication	463	286	279	33	219	15	12	7	0		
Non-S&E fields nec	628	380	369	42	214	33	80	11	0		
Temporary visa holder	16,323	10,213	7,932	3,750	1,345	2,604	233	2,274	7		
Life sciences	3,329	2,071	1,673	1,235	124	270	44	398	0		
Agricultural sciences and natural resources	627	360	248	165	29	46	8	112	0		
Biological and biomedical sciences	2,163	1,377	1,192	946	58	166	22	185	0		
Health sciences	539	334	233	124	37	58	14	101	0		
Physical sciences and earth sciences	2,156	1,315	1,072	712	52	292	16	241	2		
Chemistry	921	528	451	290	21	132	8	76	1		

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			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Geosciences, atmospheric sciences, and ocean sciences	332	210	152	118	5	25	4	57	1
Physics and astronomy	903	577	469	304	26	135	4	108	0
Mathematics and computer sciences	1,931	1,371	1,153	330	192	604	27	217	1
Computer and information sciences	1,101	788	688	139	116	415	18	99	1
Mathematics and statistics	830	583	465	191	76	189	9	118	0
Psychology and social sciences	1,680	1,133	665	225	263	126	51	467	1
Psychology	295	186	146	84	44	10	8	40	0
Anthropology	65	34	17	10	7	0	0	17	0
Economics	647	508	278	47	105	D	D	229	1
Political science and government	141	96	51	18	29	D	D	45	0
Sociology	94	53	24	11	10	D	D	29	0
Other social sciences	438	256	149	55	68	17	9	107	0
Engineering	5,070	3,048	2,583	1,096	168	1,261	58	463	2
Aerospace, aeronautical, and astronautical engineering	122	64	D	31	D	21	1	D	0
Bioengineering and biomedical engineering	303	173	138	104	D	D	2	35	0
Chemical engineering	429	241	210	109	6	91	4	31	0
Civil engineering	444	273	224	113	27	79	5	49	0
Electrical, electronics, and communications engineering	1,230	804	702	203	32	442	25	100	2
Industrial and manufacturing engineering	161	82	D	13	21	D	3	D	0
Materials science engineering	433	246	216	117	5	93	1	30	0
Mechanical engineering	750	433	374	165	28	178	3	59	0
Other engineering	1,198	732	600	241	43	302	14	132	0
Education	536	283	136	33	D	D	20	147	0
Education administration	54	25	11	D	D	0	3	14	0
Education research	305	155	78	D	D	7	15	77	0
Teacher education	11	5	D	0	D	0	0	D	0
Teaching fields	133	79	D	8	25	D	1	D	0
Other education	33	19	10	D	D	0	1	9	0
Humanities and arts	693	365	203	67	D	D	11	162	0
Foreign languages and literature	160	88	64	16	47	0	1	24	0
History	125	76	37	D	17	D	1	39	0

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			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Letters	125	63	31	D	20	D	0	32	0
Other humanities and arts	283	138	71	D	D	0	9	67	0
Other ^d	928	627	447	52	348	41	6	179	1
Business management and administration	576	428	312	16	268	25	3	115	1
Communication	121	71	51	7	38	6	0	20	0
Non-S&E fields nec	231	128	84	29	42	10	3	44	0

D = suppressed to avoid disclosure of confidential information.

nec = not elsewhere classified; S&E = science and engineering.

^a Includes doctorate recipients who indicated self-employment.

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

^c Includes respondents who did not report citizenship status.

^d Includes other non-S&E fields not shown separately.

Note(s)

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(s)

National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2017.