

TABLE 52

Definite postgraduation commitments of doctorate recipients, by sex and major field of study: 2018

(Number)

Sex 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	55,195	34,289	30,762	11,840	8,172	6,967	3,783	3,514	13
Life sciences	12,780	7,754	7,170	4,353	1,119	1,055	643	583	1
Agricultural sciences and natural resources	1,445	865	708	338	137	136	97	157	0
Biological and biomedical sciences	8,801	5,308	4,994	3,492	465	738	299	313	1
Health sciences	2,534	1,581	1,468	523	517	181	247	113	0
Physical sciences and earth sciences	6,335	3,950	3,480	1,965	283	1,025	207	469	1
Chemistry	2,810	1,696	1,550	833	129	514	74	146	0
Geosciences, atmospheric sciences, and ocean sciences	1,185	751	659	420	76	97	66	92	0
Physics and astronomy	2,340	1,503	1,271	712	78	414	67	231	1
Mathematics and computer sciences	4,030	2,775	2,443	722	530	1,053	138	332	0
Computer and information sciences	2,004	1,370	1,243	233	258	682	70	127	0
Mathematics and statistics	2,026	1,405	1,200	489	272	371	68	205	0
Psychology and social sciences	8,899	5,880	5,140	2,068	1,673	650	749	737	3
Psychology	3,837	2,581	2,477	1,460	438	283	296	103	1
Anthropology	424	233	189	77	76	16	20	43	1
Economics	1,247	940	667	105	285	179	98	273	0
Political science and government	734	494	411	127	191	33	60	83	0
Sociology	669	444	402	102	232	24	44	42	0
Other social sciences	1,988	1,188	994	197	451	115	231	193	1
Engineering	10,183	6,109	5,507	1,881	466	2,699	461	598	4
Aerospace, aeronautical, and astronautical engineering	383	245	228	64	23	85	56	16	1
Bioengineering and biomedical engineering	1,134	634	577	326	42	186	23	57	0
Chemical engineering	981	551	513	188	18	284	23	37	1
Civil engineering	677	396	336	135	44	127	30	59	1
Electrical, electronics, and communications engineering	1,951	1,289	1,180	264	66	756	94	109	0
Industrial and manufacturing engineering	272	166	141	28	36	65	12	25	0
Materials science engineering	995	561	513	211	23	247	32	48	0
Mechanical engineering	1,504	862	784	289	85	341	69	78	0

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			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Other engineering	2,286	1,405	1,235	376	129	608	122	169	1
Education	4,834	3,121	2,913	257	1,468	172	1,016	207	1
Education administration	898	583	558	16	238	26	278	25	0
Education research	2,507	1,628	1,518	168	755	106	489	109	1
Teacher education	97	60	D	D	29	8	19	D	0
Teaching fields	963	654	594	50	360	22	162	60	0
Other education	369	196	D	D	86	10	68	D	0
Humanities and arts	5,145	2,742	2,437	444	1,485	137	371	303	2
Foreign languages and literature	617	346	305	52	212	7	34	41	0
History	948	510	441	124	229	18	70	67	2
Letters	1,442	787	725	110	505	43	67	62	0
Other humanities and arts	2,138	1,099	966	158	539	69	200	133	0
Other ^d	2,989	1,958	1,672	150	1,148	176	198	285	1
Business management and administration	1,481	1,063	867	51	640	106	70	195	1
Communication	631	395	363	38	274	31	20	32	0
Non-S&E fields nec	877	500	442	61	234	39	108	58	0
Male	29,798	18,786	16,515	6,354	3,738	4,688	1,735	2,265	6
Life sciences	5,659	3,511	3,193	2,085	394	507	207	317	1
Agricultural sciences and natural resources	746	476	377	196	64	75	42	99	0
Biological and biomedical sciences	4,089	2,495	2,332	1,687	177	349	119	162	1
Health sciences	824	540	484	202	153	83	46	56	0
Physical sciences and earth sciences	4,214	2,668	2,335	1,321	157	724	133	333	0
Chemistry	1,743	1,087	986	556	66	321	43	101	0
Geosciences, atmospheric sciences, and ocean sciences	659	425	363	232	35	61	35	62	0
Physics and astronomy	1,812	1,156	986	533	56	342	55	170	0
Mathematics and computer sciences	3,043	2,097	1,845	541	379	823	102	252	0
Computer and information sciences	1,568	1,075	975	176	193	553	53	100	0
Mathematics and statistics	1,475	1,022	870	365	186	270	49	152	0
Psychology and social sciences	3,641	2,473	2,035	642	737	316	340	437	1
Psychology	1,097	740	698	356	150	99	93	42	0
Anthropology	126	70	50	25	16	7	2	19	1

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			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Economics	850	650	452	82	186	118	66	198	0
Political science and government	429	290	233	72	105	19	37	57	0
Sociology	250	167	153	33	96	10	14	14	0
Other social sciences	889	556	449	74	184	63	128	107	0
Engineering	7,726	4,713	4,211	1,422	346	2,100	343	499	3
Aerospace, aeronautical, and astronautical engineering	337	217	200	D	17	D	50	16	1
Bioengineering and biomedical engineering	688	391	352	201	32	107	12	39	0
Chemical engineering	688	387	354	139	D	D	17	32	1
Civil engineering	507	311	D	D	32	104	19	D	0
Electrical, electronics, and communications engineering	1,606	1,069	970	213	49	632	76	99	0
Industrial and manufacturing engineering	204	124	D	18	D	50	6	D	0
Materials science engineering	720	417	375	161	14	179	21	42	0
Mechanical engineering	1,286	739	673	244	69	302	58	66	0
Other engineering	1,690	1,058	927	282	92	469	84	130	1
Education	1,496	988	906	71	482	44	309	82	0
Education administration	323	214	205	6	84	12	103	9	0
Education research	764	508	464	49	260	20	135	44	0
Teacher education	18	13	D	D	D	D	5	D	0
Teaching fields	272	188	165	D	109	D	42	23	0
Other education	119	65	D	5	D	D	24	D	0
Humanities and arts	2,567	1,343	1,174	206	682	72	214	168	1
Foreign languages and literature	247	147	129	D	85	D	15	18	0
History	513	265	228	63	116	6	43	36	1
Letters	585	319	286	35	204	18	29	33	0
Other humanities and arts	1,222	612	531	D	277	D	127	81	0
Other ^d	1,452	993	816	66	561	102	87	177	0
Business management and administration	869	647	518	29	381	72	36	129	0
Communication	234	140	123	11	92	11	9	17	0

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			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Non-S&E fields nec	349	206	175	26	88	19	42	31	0
Female	25,368	15,503	14,247	5,486	4,434	2,279	2,048	1,249	7
Life sciences	7,114	4,243	3,977	2,268	725	548	436	266	0
Agricultural sciences and natural resources	696	389	331	142	73	61	55	58	0
Biological and biomedical sciences	4,709	2,813	2,662	1,805	288	389	180	151	0
Health sciences	1,709	1,041	984	321	364	98	201	57	0
Physical sciences and earth sciences	2,118	1,282	1,145	644	126	301	74	136	1
Chemistry	1,067	609	564	277	63	193	31	45	0
Geosciences, atmospheric sciences, and ocean sciences	526	326	296	188	41	36	31	30	0
Physics and astronomy	525	347	285	179	22	72	12	61	1
Mathematics and computer sciences	983	678	598	181	151	230	36	80	0
Computer and information sciences	435	295	268	57	65	129	17	27	0
Mathematics and statistics	548	383	330	124	86	101	19	53	0
Psychology and social sciences	5,256	3,407	3,105	1,426	936	334	409	300	2
Psychology	2,740	1,841	1,779	1,104	288	184	203	61	1
Anthropology	298	163	139	52	60	9	18	24	0
Economics	397	290	215	23	99	61	32	75	0
Political science and government	304	204	178	55	86	14	23	26	0
Sociology	419	277	249	69	136	14	30	28	0
Other social sciences	1,098	632	545	123	267	52	103	86	1
Engineering	2,453	1,396	1,296	459	120	599	118	99	1
Aerospace, aeronautical, and astronautical engineering	46	28	28	D	6	D	6	0	0
Bioengineering and biomedical engineering	445	243	225	125	10	79	11	18	0
Chemical engineering	293	164	159	49	D	D	6	5	0
Civil engineering	170	85	D	D	12	23	11	D	1
Electrical, electronics, and communications engineering	345	220	210	51	17	124	18	10	0
Industrial and manufacturing engineering	68	42	D	10	D	15	6	D	0

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Materials science engineering	275	144	138	50	9	68	11	6	0
Mechanical engineering	216	123	111	45	16	39	11	12	0
Other engineering	595	347	308	94	37	139	38	39	0
Education	3,337	2,133	2,007	186	986	128	707	125	1
Education administration	575	369	353	10	154	14	175	16	0
Education research	1,742	1,120	1,054	119	495	86	354	65	1
Teacher education	79	47	D	D	D	D	14	D	0
Teaching fields	691	466	429	D	251	D	120	37	0
Other education	250	131	D	D	D	D	44	D	0
Humanities and arts	2,575	1,399	1,263	238	803	65	157	135	1
Foreign languages and literature	370	199	176	D	127	D	19	23	0
History	435	245	213	61	113	12	27	31	1
Letters	856	468	439	75	301	25	38	29	0
Other humanities and arts	914	487	435	D	262	D	73	52	0
Other ^d	1,532	965	856	84	587	74	111	108	1
Business management and administration	609	416	349	22	259	34	34	66	1
Communication	396	255	240	27	182	20	11	15	0
Non-S&E fields nec	527	294	267	35	146	20	66	27	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 sex.^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 Center for Science and Engineering Statistics, Survey of Earned Doctorates.