

Table 52**Definite postgraduation commitments of doctorate recipients, by sex and major field of study: 2020**

(Number)

Sex and field	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	55,283	35,289	31,845	12,289	7,744	7,831	3,981	3,430	14
Life sciences	12,561	7,784	7,141	4,172	1,091	1,274	604	640	3
Agricultural sciences and natural resources	1,472	919	765	354	159	135	117	153	1
Biological and biomedical sciences	8,418	5,181	4,855	3,268	431	914	242	325	1
Health sciences	2,671	1,684	1,521	550	501	225	245	162	1
Physical sciences and earth sciences	6,247	4,047	3,648	2,104	252	1,062	230	399	0
Chemistry	2,763	1,692	1,571	867	104	536	64	121	0
Geosciences, atmospheric sciences, and ocean sciences	1,243	845	741	463	70	115	93	104	0
Physics and astronomy	2,241	1,510	1,336	774	78	411	73	174	0
Mathematics and computer sciences	4,392	3,088	2,719	738	525	1,287	169	365	4
Computer and information sciences	2,361	1,687	1,497	282	271	848	96	188	2
Mathematics and statistics	2,031	1,401	1,222	456	254	439	73	177	2
Psychology and social sciences	8,946	6,042	5,399	2,245	1,608	693	853	641	2
Psychology	3,879	2,655	2,573	1,544	417	302	310	82	0
Anthropology	448	246	206	71	85	11	39	40	0
Economics	1,216	920	693	128	234	194	137	227	0
Political science and government	637	444	386	126	175	31	54	57	1
Sociology	607	428	384	106	212	25	41	43	1
Other social sciences	2,159	1,349	1,157	270	485	130	272	192	0
Engineering	10,476	6,607	5,985	2,149	394	2,952	490	618	4
Aerospace, aeronautical, and astronautical engineering	399	263	245	75	28	87	55	18	0
Bioengineering and biomedical engineering	1,083	631	590	310	29	225	26	40	1
Chemical engineering	994	598	551	221	11	305	14	46	1
Civil engineering	796	461	395	161	39	141	54	65	1
Electrical, electronics, and communications engineering	1,973	1,348	1,225	293	58	788	86	122	1
Industrial and manufacturing engineering	304	186	157	30	36	79	12	29	0
Materials science engineering	880	513	473	214	10	222	27	40	0
Mechanical engineering	1,634	1,007	918	377	61	415	65	89	0
Other engineering	2,413	1,600	1,431	468	122	690	151	169	0
Education	4,716	3,110	2,907	281	1,433	198	995	203	0
Education administration	927	645	624	13	246	31	334	21	0
Education research	2,312	1,543	1,442	184	749	124	385	101	0

Table 52

Definite postgraduation commitments of doctorate recipients, by sex and major field of study: 2020

(Number)

Sex and field	All recipients	Recipients with definite commitments	Location of definite commitments						
			United States					Abroad	Unknown
			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Teacher education	113	66	59	D	33	D	20	7	0
Teaching fields	940	603	544	55	301	25	163	59	0
Other education	424	253	238	D	104	D	93	15	0
Humanities and arts	4,939	2,604	2,320	421	1,328	138	433	284	0
Foreign languages and literature	564	302	264	37	185	11	31	38	0
History	887	509	452	115	221	26	90	57	0
Letters	1,392	714	659	94	446	38	81	55	0
Other humanities and arts	2,096	1,079	945	175	476	63	231	134	0
Other ^d	3,006	2,007	1,726	179	1,113	227	207	280	1
Business management and administration	1,466	1,049	881	46	646	123	66	167	1
Communication	593	381	342	46	239	35	22	39	0
Non-S&E fields nec	947	577	503	87	228	69	119	74	0
Male	29,886	19,286	17,085	6,641	3,451	5,167	1,826	2,192	9
Life sciences	5,553	3,493	3,161	1,929	417	599	216	331	1
Agricultural sciences and natural resources	746	482	385	180	81	67	57	97	0
Biological and biomedical sciences	3,892	2,403	2,247	1,543	181	437	86	156	0
Health sciences	915	608	529	206	155	95	73	78	1
Physical sciences and earth sciences	4,177	2,750	2,455	1,445	148	735	127	295	0
Chemistry	1,669	1,040	961	569	51	312	29	79	0
Geosciences, atmospheric sciences, and ocean sciences	737	503	435	276	36	81	42	68	0
Physics and astronomy	1,771	1,207	1,059	600	61	342	56	148	0
Mathematics and computer sciences	3,297	2,319	2,029	557	358	998	116	287	3
Computer and information sciences	1,859	1,344	1,194	226	201	694	73	148	2
Mathematics and statistics	1,438	975	835	331	157	304	43	139	1
Psychology and social sciences	3,588	2,443	2,084	734	667	313	370	358	1
Psychology	1,082	738	704	395	127	96	86	34	0
Anthropology	145	77	64	17	D	D	14	13	0
Economics	809	611	450	87	148	120	95	161	0
Political science and government	388	263	231	70	D	D	35	31	1
Sociology	243	176	153	46	81	7	19	23	0
Other social sciences	921	578	482	119	176	66	121	96	0
Engineering	7,882	5,028	4,516	1,613	263	2,262	378	509	3
Aerospace, aeronautical, and astronautical engineering	329	210	197	61	21	73	42	13	0
Bioengineering and biomedical engineering	653	381	349	184	15	134	16	31	1

Table 52**Definite postgraduation commitments of doctorate recipients, by sex and major field of study: 2020**

(Number)

Sex and field	All recipients	Recipients with definite commitments	Location of definite commitments						
			United States					Abroad	Unknown
			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Chemical engineering	695	413	377	150	D	D	13	36	0
Civil engineering	586	339	289	128	D	D	37	49	1
Electrical, electronics, and communications engineering	1,630	1,125	1,015	252	41	650	72	109	1
Industrial and manufacturing engineering	209	129	106	24	22	52	8	23	0
Materials science engineering	638	382	350	162	D	D	18	32	0
Mechanical engineering	1,373	855	771	319	46	350	56	84	0
Other engineering	1,769	1,194	1,062	333	79	534	116	132	0
Education	1,456	973	894	73	465	62	294	79	0
Education administration	346	243	235	D	99	D	118	8	0
Education research	675	459	415	50	224	37	104	44	0
Teacher education	28	16	16	0	12	D	D	0	0
Teaching fields	292	190	168	15	102	D	D	22	0
Other education	115	65	60	D	28	D	23	5	0
Humanities and arts	2,516	1,322	1,157	221	611	87	238	165	0
Foreign languages and literature	223	122	102	17	73	5	7	20	0
History	512	284	253	65	115	20	53	31	0
Letters	589	299	273	41	173	21	38	26	0
Other humanities and arts	1,192	617	529	98	250	41	140	88	0
Other ^d	1,417	958	789	69	522	111	87	168	1
Business management and administration	851	618	507	27	369	72	39	110	1
Communication	230	139	125	15	84	16	10	14	0
Non-S&E fields nec	336	201	157	27	69	23	38	44	0
Female	25,392	16,003	14,760	5,648	4,293	2,664	2,155	1,238	5
Life sciences	7,007	4,291	3,980	2,243	674	675	388	309	2
Agricultural sciences and natural resources	725	437	380	174	78	68	60	56	1
Biological and biomedical sciences	4,526	2,778	2,608	1,725	250	477	156	169	1
Health sciences	1,756	1,076	992	344	346	130	172	84	0
Physical sciences and earth sciences	2,068	1,297	1,193	659	104	327	103	104	0
Chemistry	1,092	652	610	298	53	224	35	42	0
Geosciences, atmospheric sciences, and ocean sciences	506	342	306	187	34	34	51	36	0
Physics and astronomy	470	303	277	174	17	69	17	26	0
Mathematics and computer sciences	1,095	769	690	181	167	289	53	78	1
Computer and information sciences	502	343	303	56	70	154	23	40	0

Table 52

Definite postgraduation commitments of doctorate recipients, by sex and major field of study: 2020

(Number)

Sex and field	All recipients	Recipients with definite commitments	Location of definite commitments						
			United States					Abroad	Unknown
			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Mathematics and statistics	593	426	387	125	97	135	30	38	1
Psychology and social sciences	5,358	3,599	3,315	1,511	941	380	483	283	1
Psychology	2,797	1,917	1,869	1,149	290	206	224	48	0
Anthropology	303	169	142	54	D	D	25	27	0
Economics	407	309	243	41	86	74	42	66	0
Political science and government	249	181	155	56	D	D	19	26	0
Sociology	364	252	231	60	131	18	22	20	1
Other social sciences	1,238	771	675	151	309	64	151	96	0
Engineering	2,593	1,579	1,469	536	131	690	112	109	1
Aerospace, aeronautical, and astronautical engineering	70	53	48	14	7	14	13	5	0
Bioengineering and biomedical engineering	430	250	241	126	14	91	10	9	0
Chemical engineering	299	185	174	71	D	D	1	10	1
Civil engineering	210	122	106	33	D	D	17	16	0
Electrical, electronics, and communications engineering	343	223	210	41	17	138	14	13	0
Industrial and manufacturing engineering	95	57	51	6	14	27	4	6	0
Materials science engineering	242	131	123	52	D	D	9	8	0
Mechanical engineering	261	152	147	58	15	65	9	5	0
Other engineering	643	406	369	135	43	156	35	37	0
Education	3,259	2,137	2,013	208	968	136	701	124	0
Education administration	580	402	389	D	147	D	216	13	0
Education research	1,637	1,084	1,027	134	525	87	281	57	0
Teacher education	85	50	43	D	21	D	D	7	0
Teaching fields	648	413	376	40	199	D	D	37	0
Other education	309	188	178	22	76	10	70	10	0
Humanities and arts	2,423	1,282	1,163	200	717	51	195	119	0
Foreign languages and literature	341	180	162	20	112	6	24	18	0
History	375	225	199	50	106	6	37	26	0
Letters	803	415	386	53	273	17	43	29	0
Other humanities and arts	904	462	416	77	226	22	91	46	0
Other ^d	1,589	1,049	937	110	591	116	120	112	0
Business management and administration	615	431	374	19	277	51	27	57	0
Communication	363	242	217	31	155	19	12	25	0
Non-S&E fields nec	611	376	346	60	159	46	81	30	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.