

Table 51**Definite postgraduation commitments of doctorate recipients, by citizenship status and major field of study: 2020**

(Number)

Citizenship status 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

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			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
U.S. citizen or permanent resident	34,492	22,933	22,176	7,935	6,242	4,300	3,699	753	4
Life sciences	8,707	5,537	5,386	2,941	959	926	560	149	2
Agricultural sciences and natural resources	796	527	500	171	131	92	106	27	0
Biological and biomedical sciences	6,008	3,744	3,643	2,373	378	673	219	100	1
Health sciences	1,903	1,266	1,243	397	450	161	235	22	1
Physical sciences and earth sciences	3,741	2,471	2,342	1,249	210	670	213	129	0
Chemistry	1,696	1,048	1,019	508	84	365	62	29	0
Geosciences, atmospheric sciences, and ocean sciences	811	577	542	315	63	81	83	35	0
Physics and astronomy	1,234	846	781	426	63	224	68	65	0
Mathematics and computer sciences	1,736	1,242	1,171	299	308	430	134	70	1
Computer and information sciences	808	597	569	97	131	267	74	27	1
Mathematics and statistics	928	645	602	202	177	163	60	43	0
Psychology and social sciences	6,605	4,747	4,592	1,941	1,329	527	795	155	0
Psychology	3,317	2,482	2,443	1,455	399	284	305	39	0
Anthropology	366	205	185	58	79	10	38	20	0
Economics	459	377	359	69	111	D	D	18	0
Political science and government	460	335	320	90	150	D	D	15	0
Sociology	488	353	344	87	193	D	D	9	0
Other social sciences	1,515	995	941	182	397	105	257	54	0
Engineering	4,154	2,762	2,701	817	211	1,261	412	60	1
Aerospace, aeronautical, and astronautical engineering	221	163	D	36	D	57	51	D	0

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			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
Bioengineering and biomedical engineering	689	397	387	178	19	167	23	10	0
Chemical engineering	465	304	295	D	D	161	13	9	0
Civil engineering	245	155	148	38	19	49	42	6	1
Electrical, electronics, and communications engineering	552	413	404	72	28	238	66	9	0
Industrial and manufacturing engineering	82	45	D	D	8	22	10	D	0
Materials science engineering	398	253	243	D	D	127	25	10	0
Mechanical engineering	601	408	D	D	42	174	55	D	0
Other engineering	901	624	614	158	63	266	127	10	0
Education	3,896	2,760	2,730	237	1,337	180	976	30	0
Education administration	818	622	616	D	D	31	332	6	0
Education research	1,872	1,343	1,328	D	694	D	372	15	0
Teacher education	94	D	D	D	D	D	20	0	0
Teaching fields	751	D	498	D	268	D	159	D	0
Other education	361	238	D	25	D	D	93	D	0
Humanities and arts	3,915	2,196	2,075	336	1,189	133	417	121	0
Foreign languages and literature	349	200	187	20	129	11	27	13	0
History	746	431	405	D	199	D	88	26	0
Letters	1,165	648	625	D	424	D	79	23	0
Other humanities and arts	1,655	917	858	D	437	D	223	59	0
Other ^d	1,738	1,218	1,179	115	699	173	192	39	0
Business management and administration	709	517	492	21	329	87	55	25	0
Communication	412	276	269	33	187	29	20	7	0
Non-S&E fields nec	617	425	418	61	183	57	117	7	0
Temporary visa holder	18,482	12,223	9,558	4,317	1,479	3,504	258	2,660	5
Life sciences	3,430	2,222	1,734	1,219	130	345	40	488	0
Agricultural sciences and natural resources	633	389	264	183	28	43	10	125	0
Biological and biomedical sciences	2,176	1,420	1,197	885	52	239	21	223	0
Health sciences	621	413	273	151	50	63	9	140	0
Physical sciences and earth sciences	2,311	1,560	1,291	846	42	388	15	269	0
Chemistry	994	641	549	357	20	170	2	92	0
Geosciences, atmospheric sciences, and ocean sciences	391	266	198	147	7	34	10	68	0
Physics and astronomy	926	653	544	342	15	184	3	109	0
Mathematics and computer sciences	2,475	1,825	1,531	438	215	849	29	291	3

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Computer and information sciences	1,452	1,078	918	185	138	575	20	159	1
Mathematics and statistics	1,023	747	613	253	77	274	9	132	2
Psychology and social sciences	1,832	1,271	786	296	272	164	54	485	0
Psychology	257	165	122	83	18	18	3	43	0
Anthropology	63	40	20	13	6	0	1	20	0
Economics	691	536	327	59	119	D	D	209	0
Political science and government	152	107	65	36	24	D	D	42	0
Sociology	101	72	38	18	18	D	D	34	0
Other social sciences	568	351	214	87	87	25	15	137	0
Engineering	5,955	3,819	3,264	1,328	181	1,681	74	553	2
Aerospace, aeronautical, and astronautical engineering	163	97	D	38	D	28	4	D	0
Bioengineering and biomedical engineering	364	234	203	132	10	58	3	30	1
Chemical engineering	482	292	256	D	D	144	1	36	0
Civil engineering	513	304	246	123	19	92	12	58	0
Electrical, electronics, and communications engineering	1,344	929	815	221	30	545	19	113	1
Industrial and manufacturing engineering	200	140	D	D	28	57	1	D	0
Materials science engineering	463	259	229	D	D	95	2	30	0
Mechanical engineering	983	595	D	D	19	240	9	D	0
Other engineering	1,443	969	812	309	58	422	23	157	0
Education	661	347	175	44	95	18	18	172	0
Education administration	59	21	7	D	D	0	1	14	0
Education research	387	199	113	D	54	D	13	86	0
Teacher education	18	D	D	0	D	D	0	7	0
Teaching fields	163	D	46	D	33	D	4	D	0
Other education	34	15	D	D	D	0	0	D	0
Humanities and arts	742	400	238	83	135	5	15	162	0
Foreign languages and literature	185	100	75	15	56	0	4	25	0
History	120	77	46	D	21	D	2	31	0
Letters	131	65	33	D	21	D	2	32	0
Other humanities and arts	306	158	84	D	37	D	7	74	0
Other ^d	1,076	779	539	63	409	54	13	240	0
Business management and administration	658	524	383	25	312	36	10	141	0
Communication	154	105	73	13	52	6	2	32	0

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Non-S&E fields nec	264	150	83	25	45	12	1	67	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 Center for Science and Engineering Statistics, Survey of Earned Doctorates.