

Table 6-2

**U.S. citizen and permanent resident research doctorate recipients with definite postgraduation commitments, by major field of doctorate: 2021**

(Number)

Field of doctorate	All doctorate recipients	Doctorate 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>		
U.S. citizens and permanent residents reporting postgraduation plans	31,674	21,332	20,623	7,894	5,075	4,303	3,351	703	6
Science and engineering	23,906	16,430	15,866	7,293	2,666	3,866	2,041	562	2
Agricultural sciences and natural resources	695	460	446	162	91	122	71	14	0
Agricultural, animal, plant, and veterinary sciences	440	298	292	99	61	105	27	6	0
Natural resources and conservation	255	162	154	63	30	17	44	8	0
Biological and biomedical sciences	5,876	3,880	3,767	2,390	328	805	244	112	1
Biochemistry, biophysics, and molecular biology	882	582	572	373	26	153	20	10	0
Bioinformatics, biostatistics, and computational biology	296	201	195	67	26	80	22	6	0
Cell/ cellular biology and anatomy	455	290	D	189	D	60	10	D	0
Ecology, evolutionary biology, and epidemiology	793	569	536	329	69	62	76	33	0
Genetics and genomics	291	178	D	104	D	48	5	D	1
Microbiology and immunology	766	532	520	343	35	113	29	12	0
Neurobiology and neurosciences	795	510	494	365	25	88	16	16	0
Pharmacology and toxicology	222	139	D	90	D	34	8	D	0
Physiology, oncology and cancer biology	517	327	D	203	D	66	14	D	0
Biological and biomedical sciences, other	859	552	530	327	58	101	44	22	0
Computer and information sciences	703	539	515	114	124	224	53	24	0
Computer science	480	360	345	80	74	160	31	15	0
Computer and information sciences, other	223	179	170	34	50	64	22	9	0
Engineering	3,785	2,537	2,478	828	244	1,060	346	59	0
Biological, biomedical, and biosystems engineering	732	424	414	209	27	163	15	10	0
Chemical and petroleum engineering	540	349	343	132	5	186	20	6	0
Civil, environmental, and transportation engineering	325	216	207	69	32	63	43	9	0

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Electrical and computer engineering	553	408	395	68	52	221	54	13	0
Engineering technologies	132	85	D	34	D	28	11	D	0
Industrial engineering and operations research	203	160	D	D	34	67	41	D	0
Materials and mining engineering	288	182	D	76	D	77	18	D	0
Mechanical engineering	571	392	382	123	40	152	67	10	0
Engineering, other	441	321	D	D	39	103	77	D	0
Geosciences, atmospheric, and ocean sciences	665	493	471	283	52	59	77	22	0
Geological and earth sciences	373	271	258	141	D	D	D	13	0
Ocean/ marine sciences and atmospheric science	292	222	213	142	D	D	D	9	0
Health sciences	1,886	1,339	1,316	415	444	202	255	22	1
Nursing and nursing science	510	381	D	76	D	D	84	D	0
Pharmacy and pharmaceutical sciences	196	128	D	56	D	57	6	D	0
Public health	527	380	D	146	100	D	87	D	1
Health sciences, other	653	450	442	137	149	78	78	8	0
Mathematics and statistics	847	568	518	219	129	129	41	50	0
Applied mathematics	228	154	147	72	29	34	12	7	0
Mathematics	428	271	233	107	67	39	20	38	0
Statistics	191	143	138	40	33	56	9	5	0
Multidisciplinary/ interdisciplinary sciences	674	449	434	154	84	134	62	15	0
Interdisciplinary computer sciences	175	136	D	29	24	66	D	D	0
Multidisciplinary/ interdisciplinary sciences, other	499	313	D	125	60	68	D	D	0
Physical sciences	2,712	1,843	1,745	925	115	588	117	98	0
Astronomy and astrophysics	183	141	129	D	11	D	9	12	0
Chemistry	1,390	941	915	453	68	343	51	26	0
Materials sciences	226	142	132	D	D	57	14	10	0
Physics	913	619	569	322	D	D	43	50	0
Psychology	3,070	2,267	2,237	1,331	334	283	289	30	0
Clinical psychology	1,090	878	D	723	D	49	69	D	0
Counseling and applied psychology	1,133	823	816	364	160	134	158	7	0

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Research and experimental psychology	530	378	363	171	D	D	36	15	0
Psychology, other	317	188	D	73	D	D	26	D	0
Social sciences	2,993	2,055	1,939	472	721	260	486	116	0
Anthropology	294	162	151	65	54	17	15	11	0
Area, ethnic, cultural, gender, and group studies	283	171	161	48	77	10	26	10	0
Economics	467	393	374	72	114	79	109	19	0
Political science and government	405	277	256	78	D	D	48	21	0
Public policy analysis	316	220	213	34	D	D	82	7	0
Sociology, demography, and population studies	469	336	317	84	D	D	68	19	0
Social sciences, other	759	496	467	91	178	60	138	29	0
Non-science and engineering	7,768	4,902	4,757	601	2,409	437	1,310	141	4
Business	590	410	384	22	235	78	49	26	0
Business administration and management	219	145	136	6	71	37	22	9	0
Business, other	371	265	248	16	164	41	27	17	0
Education	2,962	2,055	2,034	135	997	148	754	20	1
Education leadership and administration	937	690	683	D	357	D	281	7	0
Education research	924	645	D	52	323	D	194	D	0
Teacher education	778	517	509	D	244	D	188	7	1
Education, other	323	203	D	22	73	D	91	D	0
Humanities	2,339	1,345	1,278	274	642	86	276	65	2
English language and literature, letters	776	442	431	75	275	27	54	11	0
Foreign languages, literatures, and linguistics	305	164	153	31	85	12	25	11	0
History	524	290	278	83	110	15	70	11	1
Philosophy and religious studies	457	280	255	70	D	19	D	24	1
Humanities, other	277	169	161	15	D	13	D	8	0
Visual and performing arts	571	282	265	D	129	D	60	17	0
Performing arts	368	176	168	D	83	D	40	8	0
Visual arts, media studies/ design	203	106	97	D	46	D	20	9	0
Other non-science and engineering	1,306	810	796	D	406	D	171	13	1
Communications and journalism	358	223	D	D	142	26	15	D	1
Multidisciplinary/ interdisciplinary studies	233	127	D	21	62	D	26	D	0

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Public administration and social services	357	229	D	28	102	D	83	D	0
Non-science and engineering, other	358	231	225	39	100	39	47	6	0

D = suppressed to avoid disclosure of confidential information.

<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.**Note(s):**

Definite postgraduate commitment includes doctorate recipients reporting definite postgraduation commitments for employment or postdoctoral study. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and the new broad, major, and detailed fields were used in tables reporting only the most recent data year. Therefore, the field of doctorate data in 2021 may not be comparable to prior years; see the "Technical Notes" for more information, table A-4 for a summary of SED-CIP codes in the new SED field taxonomy, table A-5 for a full list of SED-CIP codes in the new field taxonomy, and table A-6 for the SED-CIP code crosswalk to the historical field taxonomy.

**Source(s):**

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