

Table 6-2

U.S. citizen and permanent resident research doctorate recipients with definite postgraduation commitments, by major field of doctorate: 2022

(Number)

Field of doctorate	U.S. citizen and permanent resident doctorate recipients	Doctorate recipients with definite commitments	Location of definite commitments						
			United States					Abroad	Unknown
			Total	Postdoctoral study	Academic employment	Industry employment ^a	Other ^b		
U.S. citizens and permanent residents reporting postgraduation plans	35,311	24,251	23,491	8,541	5,556	5,660	3,734	753	7
Science and engineering	26,801	18,645	18,067	7,851	2,831	5,128	2,257	573	5
Agricultural sciences and natural resources	770	515	500	192	93	136	79	15	0
Agricultural, animal, plant, and veterinary sciences	458	308	299	90	D	118	D	9	0
Natural resources and conservation	312	207	201	102	D	18	D	6	0
Biological and biomedical sciences	6,745	4,495	4,379	2,545	388	1,151	295	115	1
Biochemistry, biophysics, and molecular biology	1,022	676	656	376	45	212	23	20	0
Bioinformatics, biostatistics, and computational biology	364	266	260	91	35	114	20	6	0
Cell/ cellular biology and anatomy	506	317	D	180	D	99	12	D	0
Ecology, evolutionary biology, and epidemiology	890	639	612	383	68	56	105	26	1
Genetics and genomics	335	213	D	127	D	52	15	D	0
Microbiology and immunology	887	580	569	360	39	153	17	11	0
Neurobiology and neurosciences	924	615	601	420	D	124	D	14	0
Pharmacology and toxicology	285	201	196	89	D	93	D	5	0
Physiology, oncology, and cancer biology	545	378	370	202	55	94	19	8	0
Biological and biomedical sciences, other	987	610	595	317	69	154	55	15	0
Computer and information sciences	774	585	563	108	109	280	66	22	0
Computer science	539	411	D	73	74	209	D	D	0
Computer and information sciences, other	235	174	D	35	35	71	D	D	0
Engineering	4,436	3,018	2,956	853	281	1,426	396	61	1
Biological, biomedical, and biosystems engineering	842	517	509	217	39	229	24	8	0
Chemical and petroleum engineering	569	384	371	114	18	219	20	13	0

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Civil, environmental, and transportation engineering	436	308	D	88	D	105	64	D	0
Electrical and computer engineering	552	380	370	61	35	221	53	10	0
Engineering technologies	102	78	D	15	D	44	10	D	0
Industrial engineering and operations research	220	163	D	21	D	80	36	D	1
Materials and mining engineering	443	295	D	92	D	157	25	D	0
Mechanical engineering	644	448	436	132	43	196	65	12	0
Engineering, other	628	445	436	113	49	175	99	9	0
Geosciences, atmospheric, and ocean sciences	727	546	524	317	D	D	85	22	0
Geological and earth sciences	385	281	268	143	D	D	52	13	0
Ocean, marine, and atmospheric sciences	342	265	256	174	24	25	33	9	0
Health sciences	1,973	1,406	1,394	378	476	250	290	12	0
Nursing and nursing science	512	375	375	55	191	34	95	0	0
Pharmacy and pharmaceutical sciences	192	118	118	40	D	D	11	0	0
Public health	586	441	434	165	D	D	108	7	0
Health sciences, other	683	472	467	118	180	93	76	5	0
Mathematics and statistics	966	655	595	257	D	D	58	60	0
Applied mathematics	210	145	139	55	D	D	26	6	0
Mathematics	553	358	311	159	87	43	22	47	0
Statistics	203	152	145	43	30	62	10	7	0
Multidisciplinary/interdisciplinary sciences	816	555	542	168	104	195	75	12	1
Interdisciplinary computer sciences	236	173	D	33	21	95	D	D	1
Multidisciplinary/interdisciplinary sciences, other	580	382	D	135	83	100	D	D	0
Physical sciences	3,108	2,176	2,077	957	150	839	131	98	1
Astronomy and astrophysics	204	151	142	105	12	19	6	9	0
Chemistry	1,665	1,187	1,157	470	89	543	55	29	1
Materials sciences	193	139	132	51	D	D	8	7	0
Physics	1,046	699	646	331	D	D	62	53	0
Psychology	3,295	2,448	2,417	1,463	331	320	303	30	1
Clinical psychology	1,029	845	D	730	D	36	54	D	1

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Counseling and applied psychology	1,226	932	920	429	157	163	171	12	0
Research and experimental psychology	701	474	461	221	D	D	46	13	0
Psychology, other	339	197	D	83	48	D	32	D	0
Social sciences	3,191	2,246	2,120	613	712	316	479	126	0
Anthropology	329	208	191	88	D	D	D	17	0
Area, ethnic, cultural, gender, and group studies	331	226	D	72	97	D	31	D	0
Economics	515	414	387	72	103	99	113	27	0
Political science and government	465	334	314	93	114	47	60	20	0
Public policy analysis	325	216	D	43	D	31	83	D	0
Sociology, demography, and population studies	496	365	356	126	129	D	D	9	0
Social sciences, other	730	483	442	119	163	60	100	41	0
Non-science and engineering	8,510	5,606	5,424	690	2,725	532	1,477	180	2
Business	651	492	466	27	290	95	54	26	0
Business administration and management	211	151	142	7	70	41	24	9	0
Business, other	440	341	324	20	220	54	30	17	0
Education	3,205	2,272	2,244	151	1,098	166	829	28	0
Education leadership and administration	1,050	796	788	D	388	D	326	8	0
Education research	924	632	625	43	296	79	207	7	0
Teacher education	863	608	D	D	311	29	211	D	0
Education, other	368	236	D	30	103	D	85	D	0
Humanities	2,634	1,587	1,494	320	723	117	334	92	1
English language and literature, letters	910	540	521	D	297	D	88	18	1
Foreign languages, literatures, and linguistics	332	181	171	D	91	D	31	10	0
History	593	369	347	94	141	24	88	22	0
Philosophy and religious studies	511	321	288	79	D	D	48	33	0
Humanities, other	288	176	167	D	D	D	79	9	0
Visual and performing arts	619	326	312	54	154	46	58	14	0
Performing arts	354	183	177	18	D	D	33	6	0
Visual arts, media studies, and design	265	143	135	36	D	D	25	8	0
Other non-science and engineering	1,401	929	908	138	460	108	202	20	1
Communications and journalism	386	266	D	D	168	27	25	D	0

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Multidisciplinary/interdisciplinary studies	291	184	172	D	72	D	49	11	1
Public administration and social services	338	232	D	30	91	D	83	D	0
Non-science and engineering, other	386	247	242	41	129	27	45	5	0

D = suppressed to avoid disclosure of confidential information.

^a Includes doctorate recipients reporting self-employment.^b Includes doctorate recipients reporting government, nonprofit, elementary or secondary school, or other employment and those with unknown employment.**Note(s):**

A definite postgraduation commitment includes accepting new employment or a postdoctoral study (postdoc) position or returning to predoctoral employment. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information, see the "Technical Notes" and the SED 2021 Taxonomy Changes Working Paper (available at <https://nces.nsf.gov/pubs/nces23200>).

Source(s):

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