

**Table 1-3. Research doctorate recipients, by trend major field of doctorate: Selected years, 1994–2024**

(Number and percent)

Field of doctorate	1994		1999		2004		2009		2014		2019		2024	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All fields	41,034	100.0	41,101	100.0	42,122	100.0	49,552	100.0	53,986	100.0	55,598	100.0	58,131	100.0
Science and engineering	27,331	66.6	27,198	66.2	27,842	66.1	35,369	71.4	40,708	75.4	42,897	77.2	45,929	79.0
Agricultural sciences and natural resources	1,357	3.3	1,266	3.1	1,209	2.9	1,343	2.7	1,380	2.6	1,538	2.8	1,478	2.5
Agricultural sciences	1,049	2.6	948	2.3	833	2.0	811	1.6	854	1.6	1,002	1.8	992	1.7
Natural resources and conservation	308	0.8	318	0.8	376	0.9	532	1.1	526	1.0	536	1.0	486	0.8
Biological and biomedical sciences	5,371	13.1	5,760	14.0	6,185	14.7	8,335	16.8	8,868	16.4	8,678	15.6	9,700	16.7
Biochemistry and biophysics	927	2.3	932	2.3	833	2.0	1,053	2.1	1,006	1.9	966	1.7	926	1.6
Biology and biomedical sciences, general	288	0.7	358	0.9	371	0.9	473	1.0	683	1.3	914	1.6	1,326	2.3
Bioinformatics, biostatistics, and computational biology	72	0.2	76	0.2	100	0.2	290	0.6	465	0.9	647	1.2	805	1.4
Cellular and developmental biology, and anatomy	365	0.9	422	1.0	446	1.1	554	1.1	607	1.1	412	0.7	220	0.4
Ecology, evolutionary biology, and epidemiology	369	0.9	452	1.1	583	1.4	944	1.9	956	1.8	1,033	1.9	1,131	1.9
Genetics and genomics	203	0.5	216	0.5	258	0.6	364	0.7	401	0.7	341	0.6	451	0.8
Microbiology and immunology	624	1.5	632	1.5	775	1.8	1,064	2.1	1,133	2.1	1,009	1.8	1,092	1.9
Molecular biology	598	1.5	716	1.7	725	1.7	763	1.5	670	1.2	555	1.0	872	1.5
Neurobiology and neurosciences	285	0.7	431	1.0	584	1.4	983	2.0	1,048	1.9	1,033	1.9	1,125	1.9
Pharmacology and toxicology	379	0.9	368	0.9	421	1.0	500	1.0	458	0.8	350	0.6	377	0.6
Physiology, pathology, and cancer biology	443	1.1	383	0.9	327	0.8	656	1.3	788	1.5	637	1.1	631	1.1
Biology and biomedical sciences, other	818	2.0	774	1.9	762	1.8	691	1.4	653	1.2	781	1.4	744	1.3
Computer and information sciences	903	2.2	856	2.1	948	2.3	1,610	3.2	1,988	3.7	2,220	4.0	2,982	5.1
Computer science	833	2.0	741	1.8	767	1.8	1,361	2.7	1,664	3.1	1,814	3.3	2,195	3.8
Computer and information sciences, other	70	0.2	115	0.3	181	0.4	249	0.5	324	0.6	406	0.7	787	1.4
Engineering	5,820	14.2	5,330	13.0	5,776	13.7	7,642	15.4	9,626	17.8	10,298	18.5	11,169	19.2
Aerospace, aeronautical, and astronautical engineering	230	0.6	206	0.5	201	0.5	297	0.6	386	0.7	379	0.7	598	1.0
Bioengineering and biomedical engineering	173	0.4	245	0.6	369	0.9	834	1.7	1,046	1.9	1,163	2.1	1,282	2.2
Chemical and petroleum engineering	725	1.8	674	1.6	726	1.7	921	1.9	1,143	2.1	1,194	2.1	1,248	2.1
Civil, environmental, and transportation engineering	683	1.7	584	1.4	673	1.6	827	1.7	1,161	2.2	1,317	2.4	1,329	2.3
Electrical and computer engineering	1,672	4.1	1,478	3.6	1,651	3.9	2,099	4.2	2,446	4.5	2,260	4.1	2,576	4.4
Industrial engineering and operations research	326	0.8	320	0.8	347	0.8	397	0.8	510	0.9	505	0.9	584	1.0
Materials and mining engineering	562	1.4	487	1.2	520	1.2	670	1.4	856	1.6	1,016	1.8	1,088	1.9
Mechanical engineering	883	2.2	786	1.9	754	1.8	1,095	2.2	1,411	2.6	1,677	3.0	1,624	2.8
Engineering, other	566	1.4	550	1.3	535	1.3	502	1.0	667	1.2	787	1.4	840	1.4
Geosciences, atmospheric, and ocean sciences	791	1.9	723	1.8	686	1.6	877	1.8	1,098	2.0	1,272	2.3	1,229	2.1
Geological sciences	479	1.2	420	1.0	371	0.9	492	1.0	579	1.1	621	1.1	608	1.0
Ocean, marine, and atmospheric sciences	312	0.8	303	0.7	315	0.7	385	0.8	519	1.0	651	1.2	621	1.1
Health sciences	1,072	2.6	1,179	2.9	1,419	3.4	1,725	3.5	2,236	4.1	2,532	4.6	2,509	4.3
Nursing science	336	0.8	353	0.9	394	0.9	511	1.0	580	1.1	546	1.0	498	0.9
Pharmaceutical sciences	148	0.4	137	0.3	161	0.4	277	0.6	279	0.5	358	0.6	370	0.6

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Public health	193	0.5	242	0.6	316	0.8	341	0.7	565	1.0	768	1.4	731	1.3
Health sciences, other	395	1.0	447	1.1	548	1.3	596	1.2	812	1.5	860	1.5	910	1.6
Mathematics and statistics	1,118	2.7	1,083	2.6	1,076	2.6	1,553	3.1	1,874	3.5	2,010	3.6	2,093	3.6
Applied mathematics	206	0.5	252	0.6	264	0.6	382	0.8	476	0.9	427	0.8	416	0.7
Mathematics	340	0.8	387	0.9	407	1.0	549	1.1	635	1.2	445	0.8	227	0.4
Statistics	205	0.5	174	0.4	226	0.5	353	0.7	407	0.8	365	0.7	537	0.9
Mathematics and statistics, other	367	0.9	270	0.7	179	0.4	269	0.5	356	0.7	773	1.4	913	1.6
Physical sciences	3,949	9.6	3,562	8.7	3,337	7.9	4,283	8.6	4,812	8.9	5,306	9.5	5,401	9.3
Astronomy and astrophysics	144	0.4	159	0.4	165	0.4	262	0.5	289	0.5	361	0.6	576	1.0
Chemistry	2,257	5.5	2,132	5.2	1,986	4.7	2,391	4.8	2,673	5.0	2,939	5.3	3,031	5.2
Physics	1,548	3.8	1,271	3.1	1,186	2.8	1,630	3.3	1,850	3.4	2,006	3.6	1,794	3.1
Psychology	3,379	8.2	3,668	8.9	3,327	7.9	3,472	7.0	3,724	6.9	3,909	7.0	4,083	7.0
Clinical psychology	1,285	3.1	1,442	3.5	1,219	2.9	1,201	2.4	1,220	2.3	1,249	2.2	1,169	2.0
Counseling and applied psychology	787	1.9	859	2.1	863	2.0	847	1.7	928	1.7	978	1.8	1,153	2.0
Research and experimental psychology	742	1.8	794	1.9	719	1.7	886	1.8	1,007	1.9	1,042	1.9	1,013	1.7
Psychology, other	565	1.4	573	1.4	526	1.2	538	1.1	569	1.1	640	1.2	748	1.3
Social sciences	3,571	8.7	3,771	9.2	3,879	9.2	4,529	9.1	5,102	9.5	5,134	9.2	5,285	9.1
Anthropology	384	0.9	462	1.1	531	1.3	503	1.0	523	1.0	445	0.8	407	0.7
Economics	939	2.3	926	2.3	959	2.3	1,118	2.3	1,196	2.2	1,247	2.2	1,283	2.2
Political science and government	589	1.4	655	1.6	587	1.4	682	1.4	775	1.4	707	1.3	674	1.2
Public policy analysis	94	0.2	125	0.3	145	0.3	228	0.5	327	0.6	287	0.5	315	0.5
Sociology, demography, and population studies	548	1.3	572	1.4	599	1.4	680	1.4	710	1.3	650	1.2	638	1.1
Social sciences, other	1,017	2.5	1,031	2.5	1,058	2.5	1,318	2.7	1,571	2.9	1,798	3.2	1,968	3.4
Non-science and engineering	13,703	33.4	13,903	33.8	14,280	33.9	14,183	28.6	13,278	24.6	12,701	22.8	12,202	21.0
Business	1,283	3.1	1,109	2.7	1,256	3.0	1,405	2.8	1,584	2.9	1,528	2.7	1,400	2.4
Education	6,711	16.4	6,554	15.9	6,635	15.8	6,528	13.2	4,789	8.9	4,628	8.3	4,534	7.8
Education leadership and administration	2,000	4.9	2,046	5.0	2,342	5.6	2,146	4.3	893	1.7	835	1.5	708	1.2
Education research	2,528	6.2	2,733	6.6	2,805	6.7	2,663	5.4	2,560	4.7	2,304	4.1	2,314	4.0
Teacher education and teaching fields	1,361	3.3	1,186	2.9	1,028	2.4	1,238	2.5	1,067	2.0	1,061	1.9	1,048	1.8
Education, other	822	2.0	589	1.4	460	1.1	481	1.0	269	0.5	428	0.8	464	0.8
Humanities and arts	4,668	11.4	5,223	12.7	5,197	12.3	4,848	9.8	5,446	10.1	5,051	9.1	4,491	7.7
Letters	1,379	3.4	1,516	3.7	1,407	3.3	1,413	2.9	1,551	2.9	1,386	2.5	1,277	2.2
Foreign languages and literature	594	1.4	626	1.5	587	1.4	598	1.2	674	1.2	610	1.1	428	0.7
History	774	1.9	960	2.3	928	2.2	989	2.0	1,108	2.1	912	1.6	755	1.3
Philosophy and religious studies	554	1.4	724	1.8	752	1.8	748	1.5	773	1.4	682	1.2	612	1.1
Music and performing arts	785	1.9	867	2.1	941	2.2	507	1.0	509	0.9	503	0.9	505	0.9
Humanities and arts, other	582	1.4	530	1.3	582	1.4	593	1.2	831	1.5	958	1.7	914	1.6

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	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Other non-science and engineering	1,041	2.5	1,017	2.5	1,192	2.8	1,402	2.8	1,459	2.7	1,494	2.7	1,777	3.1
Communication	371	0.9	379	0.9	450	1.1	627	1.3	663	1.2	543	1.0	637	1.1
Public administration and social services	407	1.0	342	0.8	420	1.0	462	0.9	444	0.8	537	1.0	552	0.9
Non-science and engineering, other	263	0.6	296	0.7	322	0.8	313	0.6	352	0.7	414	0.7	588	1.0

**Note(s):**

Due to rounding, percentages may not sum to 100. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection; the trend fields were constructed using the SED-CIP code crosswalk in table A-6. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information about the field taxonomy changes, see the "Technical Notes."

**Source(s):**

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