

Table A-26. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field, citizenship, and racial/ethnic background of U.S. citizens or permanent residents: 1998

Field	Total	Racial/ethnic background of U.S. citizens or permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all surveyed fields	422,834	18,356	1,722	26,855	15,792	241,013	17,231	101,865
Total, science and engineering fields	356,919	14,567	1,370	22,625	12,971	193,691	14,702	96,993
Sciences, total	263,134	12,114	1,174	15,706	10,344	152,735	10,919	60,142
Physical sciences, total	29,120	773	60	1,614	797	14,522	968	10,386
Astronomy	820	9	2	32	12	507	45	213
Chemistry	17,403	536	43	1,049	540	8,971	508	5,756
Physics	10,588	218	14	516	220	4,878	373	4,369
Physical sciences, n.e.c.	309	10	1	17	25	166	42	48
Earth, atmos., & ocean sci., total	12,760	175	69	372	317	8,916	481	2,430
Atmospheric sciences	954	8	2	54	13	596	30	251
Geosciences	6,274	58	34	142	127	4,436	247	1,230
Oceanography	2,395	24	16	58	103	1,598	68	528
Earth, atmos., & ocean sci., n.e.c.	3,137	85	17	118	74	2,286	136	421
Mathematical sciences	14,438	454	30	924	344	7,090	531	5,065
Computer sciences	31,067	1,004	83	3,867	589	11,478	1,596	12,450
Agricultural sciences	11,021	212	57	272	337	7,336	256	2,551
Biological sciences, total	52,704	1,853	171	4,154	1,796	31,705	1,872	11,153
Anatomy	1,015	41	3	81	15	634	37	204
Biochemistry	5,085	140	13	514	156	2,712	126	1,424
Biology	11,090	523	36	624	471	6,906	604	1,926
Biometry/epidemiology	3,484	181	6	357	153	1,883	227	677
Biophysics	737	18	1	90	14	377	71	166
Botany	2,319	58	3	92	56	1,374	63	673
Cell biology	3,902	102	11	411	119	2,334	107	818
Ecology	1,561	16	5	46	40	1,251	33	170
Entomology/parasitology	1,168	11	3	37	26	778	22	291
Genetics	1,660	43	3	123	51	1,027	32	381
Microbio., immunology, & virology	4,802	174	18	437	184	2,856	144	989
Nutrition	4,062	172	14	227	148	2,394	74	1,033
Pathology	1,514	39	10	162	38	919	61	285
Pharmacology	2,694	120	6	297	88	1,557	57	569
Physiology	2,169	95	10	265	70	1,238	53	438
Zoology	1,670	17	9	62	36	1,277	73	196
Biosciences, n.e.c.	3,772	103	20	329	131	2,188	88	913
Psychology	39,789	2,499	248	1,612	2,505	29,079	1,876	1,970
Social sciences, total	72,235	5,144	456	2,891	3,659	42,609	3,339	14,137
Agricultural economics	1,965	46	5	54	42	858	60	900
Anthropology (cultural & social)	7,213	253	115	221	304	5,342	253	725
Economics (except agricultural)	10,107	256	16	542	251	3,629	363	5,050
Geography	3,763	87	10	86	82	2,758	209	531
Linguistics	2,610	45	8	147	130	1,235	102	943
Political science	25,034	2,471	133	962	1,554	15,369	1,215	3,330
Sociology	7,832	736	63	369	484	4,879	245	1,056
Sociology/anthropology	850	92	8	9	41	523	67	110
Social sciences, other	12,861	1,158	98	501	771	8,016	825	1,492
Engineering, total	93,785	2,453	196	6,919	2,627	40,956	3,783	36,851
Aerospace engineering	3,096	33	7	138	74	1,372	70	1,402
Agricultural engineering	925	27	4	43	15	403	27	406
Biomedical engineering	2,850	86	7	265	79	1,577	113	723
Chemical engineering	6,950	172	21	450	174	3,077	220	2,836
Civil engineering	15,335	367	33	917	637	8,057	544	4,780
Electrical engineering	28,897	746	30	2,920	719	9,675	1,306	13,501
Engineering science	1,685	38	6	187	42	832	28	552
Industrial/manufacturing eng.	10,082	399	14	531	329	4,953	566	3,290
Mechanical engineering	13,868	336	24	885	360	6,264	541	5,458
Metallurgical/materials eng.	4,567	72	32	258	81	2,021	122	1,981
Nuclear engineering	821	13	2	36	22	449	5	294
Engineering, other	4,709	164	16	289	95	2,276	241	1,628

See explanatory information, if any, and SOURCE at end of table.

Table A-26. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field, citizenship, and racial/ethnic background of U.S. citizens or permanent residents: 1998

Field	Total	Racial/ethnic background of U.S. citizens or permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, health fields	65,915	3,789	352	4,230	2,821	47,322	2,529	4,872
Clinical fields	2,919	137	21	371	87	1,870	192	241
Dental sciences	1,471	34	1	144	120	811	19	342
Nursing	20,185	1,211	130	737	636	16,207	814	450
Pharmaceutical sciences	3,262	134	2	305	135	1,392	117	1,177
Preventive medicine/community health	10,787	1,088	69	1,230	733	6,016	449	1,202
Speech pathology/audiology	9,502	409	42	198	368	7,785	355	345
Veterinary sciences	1,174	29	7	44	29	779	7	279
Other health fields	16,615	747	80	1,201	713	12,462	576	836

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering