

TABLE 36. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2002

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/Alaska Native	Asian/Pacific Islander	Black non-Hispanic	Hispanic	White non-Hispanic	Other or unknown	
All surveyed fields	482,211	1,939	29,441	23,358	20,317	239,051	22,547	145,558
Science and engineering	409,339	1,502	24,544	18,236	16,286	190,968	19,092	138,711
Science	296,876	1,271	17,040	15,381	13,215	152,759	15,138	82,072
Physical sciences	31,316	76	1,308	815	921	14,148	1,157	12,891
Astronomy	990	2	44	10	17	570	44	303
Chemistry	18,357	53	861	567	631	8,609	505	7,131
Physics	11,467	20	382	213	256	4,711	519	5,366
Physical sciences, nec	502	1	21	25	17	258	89	91
Earth, atmosphere, and ocean science	13,077	72	303	233	371	8,929	464	2,705
Atmospheric sciences	1,027	4	30	23	16	621	27	306
Geosciences	6,317	32	131	56	148	4,351	238	1,361
Oceanography	2,518	11	60	36	128	1,764	55	464
Earth, atmosphere, and ocean science, nec	3,215	25	82	118	79	2,193	144	574
Mathematical sciences	16,371	20	884	480	425	7,064	696	6,802
Mathematics and applied mathematics	13,021	16	658	404	380	5,949	580	5,034
Statistics	3,350	4	226	76	45	1,115	116	1,768
Computer sciences	47,551	69	4,789	1,557	801	13,743	2,823	23,769
Agricultural sciences	11,769	63	251	289	364	7,868	385	2,549
Biological sciences	57,191	195	4,630	2,193	2,331	32,094	2,298	13,450
Anatomy	951	3	112	38	43	525	31	199
Biochemistry	5,171	8	461	124	182	2,503	221	1,672
Biology	11,233	35	569	521	597	6,784	492	2,235
Biometry/epidemiology	4,071	14	497	201	170	1,964	126	1,099
Biophysics	953	2	119	18	20	460	35	299
Botany	1,966	10	119	29	47	1,082	61	618
Cell biology	5,187	11	567	149	202	2,712	297	1,249
Ecology	1,787	6	40	21	54	1,364	89	213
Entomology/parasitology	1,191	5	27	17	35	794	30	283
Genetics	1,841	7	164	58	65	1,040	93	414
Microbiology, immunology, and virology	5,159	24	460	216	238	2,784	244	1,193
Nutrition	4,202	14	188	213	140	2,385	124	1,138
Pathology	1,613	3	188	52	62	937	72	299
Pharmacology	3,209	15	372	153	127	1,794	70	678
Physiology	2,053	8	309	94	66	1,065	57	454
Zoology	1,347	6	29	16	28	1,004	45	219
Biosciences, nec	5,257	24	409	273	255	2,897	211	1,188
Psychology	40,840	246	1,757	3,293	3,623	26,944	2,390	2,587
Clinical psychology	11,141	95	482	689	1,467	7,145	709	554
Psychology, general	11,620	59	537	933	564	8,157	551	819
Psychology, nec	18,079	92	738	1,671	1,592	11,642	1,130	1,214
Social sciences	78,761	530	3,118	6,521	4,379	41,969	4,925	17,319
Agricultural economics	2,181	4	39	83	30	912	71	1,042
Anthropology (cultural and social)	7,196	87	247	243	366	4,981	462	810
Economics (except agricultural)	11,318	26	477	262	290	3,354	496	6,413
Geography	3,951	25	88	96	97	2,784	151	710
History and philosophy of science	472	1	18	11	12	324	38	68
Linguistics	2,564	9	132	42	112	1,196	122	951
Political science	29,391	178	1,204	3,441	1,951	15,976	2,202	4,439
Sociology	7,862	58	330	768	524	4,591	328	1,263
Sociology/anthropology	710	14	12	98	30	462	25	69
Social sciences, nec	13,116	128	571	1,477	967	7,389	1,030	1,554

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

TABLE 36. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2002

Field	U.S. citizens and permanent residents							Students with temporary visas
	Total	American Indian/Alaska Native	Asian/Pacific Islander	Black non-Hispanic	Hispanic	White non-Hispanic	Other or unknown	
Engineering	112,463	231	7,504	2,855	3,071	38,209	3,954	56,639
Aerospace engineering	3,627	11	178	51	90	1,493	145	1,659
Agricultural engineering	912	2	39	24	22	397	21	407
Biomedical engineering	4,319	6	515	144	110	1,880	172	1,492
Chemical engineering	7,267	21	501	157	204	2,522	166	3,696
Civil engineering	16,888	53	744	428	712	7,415	575	6,961
Electrical engineering	37,055	39	3,132	772	792	8,434	1,285	22,601
Engineering science	1,985	9	145	33	41	805	81	871
Industrial/manufacturing engineering	13,262	28	846	595	453	5,178	603	5,559
Mechanical engineering	16,346	31	802	337	394	5,952	526	8,304
Metallurgical/materials engineering	4,911	10	258	101	74	1,854	93	2,521
Mining engineering	256	3	21	1	3	128	1	99
Nuclear engineering	795	2	31	11	26	383	11	331
Petroleum engineering	759	1	44	6	57	116	69	466
Engineering, nec	4,081	15	248	195	93	1,652	206	1,672
Health	72,872	437	4,897	5,122	4,031	48,083	3,455	6,847
Medical fields	17,993	120	1,829	1,526	1,342	9,654	865	2,657
Anesthesiology	671	5	35	27	21	568	13	2
Cardiology	43	0	8	2	0	13	2	18
Endocrinology	60	0	5	1	2	30	4	18
Gastroenterology	7	0	0	0	0	6	0	1
Hematology	13	0	1	2	0	6	1	3
Neurology	2,513	14	285	72	87	1,503	122	430
Obstetrics and gynecology	23	0	7	2	0	11	0	3
Oncology/cancer research	231	1	28	14	8	137	2	41
Ophthalmology	181	0	36	1	6	95	0	43
Otorhinolaryngology	8	0	3	0	1	4	0	0
Pediatrics	463	4	28	28	20	314	9	60
Preventive medicine/community health	11,463	86	1,075	1,233	959	5,794	510	1,806
Psychiatry	268	3	15	15	52	175	4	4
Pulmonary disease	5	0	1	0	0	2	0	2
Radiology	217	3	31	6	7	107	11	52
Surgery	86	1	19	6	8	48	1	3
Clinical medicine, nec	1,741	3	252	117	171	841	186	171
Other health fields	54,879	317	3,068	3,596	2,689	38,429	2,590	4,190
Dental sciences	1,446	4	146	28	54	831	40	343
Nursing	20,370	141	981	1,516	908	15,417	933	474
Pharmaceutical sciences	4,445	4	352	187	192	2,017	110	1,583
Speech pathology/audiology	10,038	48	250	446	511	7,887	511	385
Veterinary sciences	1,667	4	47	43	35	1,131	26	381
Health related, nec	16,913	116	1,292	1,376	989	11,146	970	1,024

nec = not elsewhere classified.

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