

TABLE 27. Graduate students in science, engineering, and health fields in all 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	
All surveyed fields	540,720	2,242	35,420	28,753	24,259	270,183	27,494	152,369
Science and engineering	455,355	1,736	29,712	22,711	19,630	213,497	22,957	145,112
Science	335,747	1,492	20,303	19,641	16,169	172,969	18,323	86,850
Physical sciences	32,342	83	1,424	893	981	14,659	1,250	13,052
Astronomy	990	2	44	10	17	570	44	303
Chemistry	19,046	58	950	636	668	8,927	554	7,253
Physics	11,701	22	405	220	274	4,827	549	5,404
Physical sciences, nec	605	1	25	27	22	335	103	92
Earth, atmosphere, and ocean science	14,240	81	355	266	413	9,799	558	2,768
Atmospheric sciences	1,036	4	31	25	16	623	31	306
Geosciences	6,712	36	149	64	163	4,639	282	1,379
Oceanography	2,618	11	64	36	131	1,845	65	466
Earth, atmosphere, and ocean science, nec	3,874	30	111	141	103	2,692	180	617
Mathematical sciences	18,163	24	1,202	626	542	7,924	840	7,005
Mathematics and applied mathematics	14,702	20	958	546	494	6,758	712	5,214
Statistics	3,461	4	244	80	48	1,166	128	1,791
Computer sciences	55,559	84	6,164	1,924	1,031	16,172	3,383	26,801
Agricultural sciences	12,698	76	286	375	406	8,486	456	2,613
Biological sciences	61,132	212	4,903	2,493	2,586	34,567	2,637	13,734
Anatomy	951	3	112	38	43	525	31	199
Biochemistry	5,213	8	468	125	185	2,522	223	1,682
Biology	14,031	51	735	709	795	8,588	709	2,444
Biometry/epidemiology	4,071	14	497	201	170	1,964	126	1,099
Biophysics	953	2	119	18	20	460	35	299
Botany	1,973	10	119	29	47	1,087	63	618
Cell biology	5,375	12	584	160	213	2,816	328	1,262
Ecology	1,967	6	43	24	59	1,507	110	218
Entomology/parasitology	1,191	5	27	17	35	794	30	283
Genetics	1,909	7	168	60	67	1,084	99	424
Microbiology, immunology, and virology	5,179	24	465	218	241	2,792	245	1,194
Nutrition	4,539	14	246	252	167	2,546	152	1,162
Pathology	1,613	3	188	52	62	937	72	299
Pharmacology	3,233	15	374	173	127	1,794	70	680
Physiology	2,076	8	309	94	66	1,086	59	454
Zoology	1,349	6	29	16	28	1,006	45	219
Biosciences, nec	5,509	24	420	307	261	3,059	240	1,198
Psychology	51,335	319	2,207	4,493	4,658	33,596	3,196	2,866
Clinical psychology	12,421	101	535	752	1,572	8,118	765	578
Psychology, general	15,159	87	674	1,532	926	10,210	758	972
Psychology, nec	23,755	131	998	2,209	2,160	15,268	1,673	1,316
Social sciences	90,278	613	3,762	8,571	5,552	47,766	6,003	18,011
Agricultural economics	2,187	4	39	83	30	914	71	1,046
Anthropology (cultural and social)	7,522	89	258	248	410	5,185	506	826
Economics (except agricultural)	12,009	28	584	322	332	3,567	556	6,620
Geography	4,432	26	115	113	123	3,112	197	746
History and philosophy of science	663	2	28	24	55	426	60	68
Linguistics	2,875	12	183	44	140	1,335	179	982
Political science	34,907	217	1,488	4,632	2,551	18,721	2,642	4,656
Sociology	8,946	68	375	1,032	655	5,081	414	1,321
Sociology/anthropology	719	14	12	100	31	468	25	69
Social sciences, nec	16,018	153	680	1,973	1,225	8,957	1,353	1,677

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

TABLE 27. Graduate students in science, engineering, and health fields in all 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	119,608	244	9,409	3,070	3,461	40,528	4,634	58,262
Aerospace engineering	3,685	11	186	51	92	1,512	147	1,686
Agricultural engineering	912	2	39	24	22	397	21	407
Biomedical engineering	4,378	6	518	144	114	1,924	172	1,500
Chemical engineering	7,414	21	555	160	206	2,565	183	3,724
Civil engineering	17,713	58	855	453	778	7,707	702	7,160
Electrical engineering	39,958	39	4,079	846	941	9,121	1,553	23,379
Engineering science	2,121	9	161	36	47	893	93	882
Industrial/manufacturing engineering	14,033	34	911	616	477	5,668	645	5,682
Mechanical engineering	17,115	32	912	358	450	6,231	598	8,534
Metallurgical/materials engineering	4,992	11	280	112	79	1,882	100	2,528
Mining engineering	267	3	21	1	3	136	1	102
Nuclear engineering	795	2	31	11	26	383	11	331
Petroleum engineering	766	1	44	6	57	121	69	468
Engineering, nec	5,459	15	817	252	169	1,988	339	1,879
Health	85,365	506	5,708	6,042	4,629	56,686	4,537	7,257
Medical fields	19,124	126	1,936	1,599	1,375	10,293	1,041	2,754
Anesthesiology	1,091	8	42	39	27	877	94	4
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	11,821	87	1,106	1,269	980	5,954	548	1,877
Psychiatry	364	3	16	26	52	221	41	5
Pulmonary disease	5	0	1	0	0	2	0	2
Radiology	258	3	31	7	7	146	11	53
Surgery	86	1	19	6	8	48	1	3
Clinical medicine, nec	1,957	5	320	130	177	926	206	193
Other health fields	66,241	380	3,772	4,443	3,254	46,393	3,496	4,503
Dental sciences	1,446	4	146	28	54	831	40	343
Nursing	24,715	170	1,330	1,843	1,099	18,373	1,342	558
Pharmaceutical sciences	4,586	4	381	270	199	2,031	111	1,590
Speech pathology/audiology	13,368	68	349	606	678	10,518	707	442
Veterinary sciences	1,691	4	47	61	35	1,132	31	381
Health related, nec	20,435	130	1,519	1,635	1,189	13,508	1,265	1,189

nec = not elsewhere classified.

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