

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: 2004

Field	Total	U.S. citizens and permanent residents					Other or unknown	Temporary-visa holders
		American Indian/ Alaska Native	Asian/Pacific Islander	Black, non- Hispanic	Hispanic	White, non- Hispanic		
All surveyed fields	516,616	2,050	33,035	27,459	23,738	256,997	29,025	144,312
Science and engineering	432,240	1,591	26,779	20,587	18,849	202,978	23,980	137,476
Science	315,633	1,343	18,359	17,363	15,103	161,952	19,051	82,462
Agricultural sciences	12,516	68	312	379	489	8,236	415	2,617
Biological sciences	62,599	234	5,015	2,693	2,728	33,596	2,842	15,491
Anatomy	917	2	101	51	39	502	37	185
Biochemistry	5,520	10	435	149	197	2,554	210	1,965
Biology	12,854	45	724	646	691	7,373	761	2,614
Biometry/epidemiology	4,674	15	554	263	195	2,237	198	1,212
Biophysics	1,180	7	113	23	30	586	46	375
Botany	1,830	10	101	18	63	967	76	595
Cell biology	5,661	17	551	176	228	2,800	295	1,594
Ecology	2,022	11	49	22	59	1,492	124	265
Entomology/parasitology	1,241	6	34	11	38	816	33	303
Genetics	2,077	13	179	68	61	1,101	103	552
Microbiology/immunology/virology	5,357	18	484	241	291	2,859	237	1,227
Nutrition	4,335	8	246	285	177	2,368	135	1,116
Pathology	1,540	5	181	59	61	863	55	316
Pharmacology	3,122	21	303	192	144	1,564	89	809
Physiology	2,272	10	361	100	81	1,140	50	530
Zoology	1,234	7	40	11	28	930	36	182
Biosciences, nec	6,763	29	559	378	345	3,444	357	1,651
Computer sciences	44,735	80	4,239	1,594	950	15,204	2,819	19,849
Earth, atmospheric, and ocean sciences	14,028	62	389	235	484	9,531	606	2,721
Atmospheric sciences	1,077	4	58	36	27	659	29	264
Geosciences	6,913	32	134	72	191	4,778	276	1,430
Oceanography	2,705	11	67	30	158	1,859	88	492
Earth/atmospheric/ocean sciences, nec	3,333	15	130	97	108	2,235	213	535
Mathematical sciences	18,062	31	1,087	556	492	7,877	850	7,169
Mathematics/applied mathematics	14,203	31	812	451	422	6,635	718	5,134
Statistics	3,859	0	275	105	70	1,242	132	2,035
Physical sciences	34,817	71	1,636	935	1,178	15,283	1,352	14,362
Astronomy	1,119	3	38	10	23	631	44	370
Chemistry	20,168	50	1,097	669	804	8,912	706	7,930
Physics	13,084	17	479	234	330	5,510	524	5,990
Physical sciences, nec	446	1	22	22	21	230	78	72
Psychology	43,735	246	2,015	3,756	3,872	27,341	3,864	2,641
Clinical psychology	12,120	80	587	815	1,607	7,512	1,113	406
Psychology, general	11,974	71	614	1,005	679	7,996	653	956
Psychology, nec	19,641	95	814	1,936	1,586	11,833	2,098	1,279
Social sciences	85,141	551	3,666	7,215	4,910	44,884	6,303	17,612
Agricultural economics	2,192	26	45	52	50	963	64	992
Anthropology (cultural/social)	7,413	101	275	265	405	5,001	508	858
Economics (except agricultural)	11,555	25	517	319	324	3,624	429	6,317
Geography	4,295	19	127	122	123	2,963	194	747
History and philosophy of science	602	3	26	15	7	445	37	69
Linguistics	2,649	16	132	41	125	1,213	166	956
Political science	33,114	161	1,458	3,691	2,262	17,500	3,323	4,719
Sociology	7,900	51	336	878	482	4,543	376	1,234
Sociology/anthropology	807	15	8	130	56	480	32	86
Social sciences, nec	14,614	134	742	1,702	1,076	8,152	1,174	1,634

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: 2004

Field	Total	U.S. citizens and permanent residents					Other or unknown	Temporary-visa holders
		American Indian/ Alaska Native	Asian/Pacific Islander	Black, non- Hispanic	Hispanic	White, non- Hispanic		
Engineering	116,607	248	8,420	3,224	3,746	41,026	4,929	55,014
Aerospace engineering	3,997	16	204	65	117	1,751	189	1,655
Agricultural engineering	998	1	47	22	8	430	14	476
Biomedical engineering	5,834	16	843	193	180	2,323	222	2,057
Chemical engineering	7,334	27	484	165	242	2,633	182	3,601
Civil engineering	17,880	48	903	440	844	7,994	679	6,972
Electrical engineering	36,132	48	3,282	784	906	8,775	1,434	20,903
Engineering science	2,134	11	160	38	43	819	57	1,006
Industrial engineering	12,951	34	895	679	566	4,995	831	4,951
Mechanical engineering	17,222	24	904	357	530	6,731	677	7,999
Metallurgical/materials engineering	4,998	5	333	103	96	1,797	121	2,543
Mining engineering	298	1	6	5	10	149	10	117
Nuclear engineering	971	3	42	20	28	492	31	355
Petroleum engineering	843	0	24	21	15	122	11	650
Engineering, nec	5,015	14	293	332	161	2,015	471	1,729
Health	84,376	459	6,256	6,872	4,889	54,019	5,045	6,836
Medical fields	19,810	96	2,074	1,831	1,625	10,533	1,107	2,544
Anesthesiology	880	1	45	43	13	673	93	12
Cardiology	79	0	2	10	0	11	40	16
Endocrinology	63	0	8	2	1	29	3	20
Gastroenterology	16	0	1	0	0	15	0	0
Hematology	30	0	6	3	1	18	1	1
Neurology	2,642	12	251	87	115	1,523	125	529
Obstetrics/gynecology	17	0	2	2	1	6	1	5
Oncology/cancer research	274	1	33	16	11	159	8	46
Ophthalmology	423	2	166	9	14	174	33	25
Otorhinolaryngology	12	0	4	0	1	7	0	0
Pediatrics	424	4	29	34	14	282	13	48
Preventive medicine/community health	11,988	69	1,203	1,421	1,105	6,117	538	1,535
Psychiatry	348	1	12	14	146	145	16	14
Pulmonary disease	7	0	2	1	0	4	0	0
Radiology	211	2	23	4	8	102	8	64
Surgery	75	0	14	4	2	48	0	7
Clinical medicine, nec	2,321	4	273	181	193	1,220	228	222
Other health	64,566	363	4,182	5,041	3,264	43,486	3,938	4,292
Dental sciences	1,697	6	180	36	79	1,005	62	329
Nursing	24,468	152	1,445	2,218	1,137	17,569	1,415	532
Pharmaceutical sciences	5,220	18	700	443	201	2,070	290	1,498
Speech pathology/audiology	10,841	42	309	533	637	8,415	522	383
Veterinary sciences	1,732	6	62	54	40	1,128	47	395
Health related, nec	20,608	139	1,486	1,757	1,170	13,299	1,602	1,155

nec = not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2004.