

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: 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	574,334	2,385	38,615	32,554	28,211	288,234	34,034	150,301
Science and engineering	476,331	1,863	31,508	24,695	22,388	224,982	27,795	143,100
Science	352,630	1,584	21,215	21,283	18,187	181,741	22,242	86,378
Agricultural sciences	13,445	82	340	394	528	8,936	485	2,680
Biological sciences	66,520	249	5,354	2,886	3,033	36,049	3,261	15,688
Anatomy	917	2	101	51	39	502	37	185
Biochemistry	5,612	10	449	156	212	2,587	220	1,978
Biology	15,438	54	907	780	865	9,139	953	2,740
Biometry/epidemiology	4,674	15	554	263	195	2,237	198	1,212
Biophysics	1,180	7	113	23	30	586	46	375
Botany	1,831	10	101	18	63	968	76	595
Cell biology	5,830	18	567	186	243	2,883	320	1,613
Ecology	2,185	12	51	27	65	1,597	161	272
Entomology/parasitology	1,241	6	34	11	38	816	33	303
Genetics	2,129	13	185	68	62	1,132	117	552
Microbiology/immunology/virology	5,375	18	487	244	295	2,865	238	1,228
Nutrition	4,726	9	329	293	245	2,532	180	1,138
Pathology	1,540	5	181	59	61	863	55	316
Pharmacology	3,122	21	303	192	144	1,564	89	809
Physiology	2,441	13	379	104	94	1,243	77	531
Zoology	1,236	7	40	11	28	932	36	182
Biosciences, nec	7,043	29	573	400	354	3,603	425	1,659
Computer sciences	50,331	93	5,167	1,818	1,160	17,043	3,248	21,802
Earth, atmospheric, and ocean sciences	15,110	67	436	260	537	10,327	701	2,782
Atmospheric sciences	1,086	4	59	36	27	663	30	267
Geosciences	7,337	33	149	83	217	5,096	312	1,447
Oceanography	2,801	11	69	30	161	1,933	100	497
Earth/atmospheric/ocean sciences, nec	3,886	19	159	111	132	2,635	259	571
Mathematical sciences	19,873	39	1,332	692	618	8,832	1,006	7,354
Mathematics/applied mathematics	15,885	39	1,029	579	544	7,556	861	5,277
Statistics	3,988	0	303	113	74	1,276	145	2,077
Physical sciences	35,772	78	1,752	995	1,232	15,723	1,443	14,549
Astronomy	1,119	3	38	10	23	631	44	370
Chemistry	20,776	54	1,188	713	837	9,170	741	8,073
Physics	13,309	18	501	248	343	5,598	571	6,030
Physical sciences, nec	568	3	25	24	29	324	87	76
Psychology	54,052	323	2,444	4,994	4,777	33,636	4,713	3,165
Clinical psychology	13,671	92	671	894	1,737	8,636	1,209	432
Psychology, general	16,276	104	813	1,828	1,035	10,154	968	1,374
Psychology, nec	24,105	127	960	2,272	2,005	14,846	2,536	1,359
Social sciences	97,527	653	4,390	9,244	6,302	51,195	7,385	18,358
Agricultural economics	2,195	26	45	52	50	965	64	993
Anthropology (cultural/social)	7,826	105	295	271	455	5,253	585	862
Economics (except agricultural)	12,250	30	617	381	358	3,845	481	6,538
Geography	4,809	24	144	150	143	3,315	244	789
History and philosophy of science	994	7	48	30	56	700	84	69
Linguistics	2,941	17	175	46	148	1,349	202	1,004
Political science	39,238	219	1,802	4,945	3,059	20,472	3,745	4,996
Sociology	8,895	56	391	1,056	635	5,030	458	1,269
Sociology/anthropology	839	15	8	132	57	505	33	89
Social sciences, nec	17,540	154	865	2,181	1,341	9,761	1,489	1,749

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Field	Total	U.S. citizens and permanent residents					Other or unknown	Temporary-visa holders
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Engineering	123,701	279	10,293	3,412	4,201	43,241	5,553	56,722
Aerospace engineering	4,089	16	212	68	118	1,791	196	1,688
Agricultural engineering	998	1	47	22	8	430	14	476
Biomedical engineering	5,892	16	844	195	181	2,363	233	2,060
Chemical engineering	7,452	27	528	169	249	2,666	191	3,622
Civil engineering	18,560	51	1,022	452	895	8,264	770	7,106
Electrical engineering	38,995	54	4,106	861	1,097	9,444	1,643	21,790
Engineering science	2,198	11	163	38	45	865	65	1,011
Industrial engineering	13,852	48	974	714	629	5,484	908	5,095
Mechanical engineering	17,946	24	1,016	369	606	6,991	764	8,176
Metallurgical/materials engineering	5,059	6	345	105	98	1,818	130	2,557
Mining engineering	308	1	6	5	10	157	10	119
Nuclear engineering	971	3	42	20	28	492	31	355
Petroleum engineering	845	0	24	21	15	123	11	651
Engineering, nec	6,536	21	964	373	222	2,353	587	2,016
Health	98,003	522	7,107	7,859	5,823	63,252	6,239	7,201
Medical fields	20,883	101	2,176	1,893	1,675	11,175	1,211	2,652
Anesthesiology	1,222	2	51	51	19	920	135	44
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	12,402	71	1,239	1,458	1,137	6,323	577	1,597
Psychiatry	403	1	12	16	147	197	16	14
Pulmonary disease	7	0	2	1	0	4	0	0
Radiology	275	3	25	8	13	149	12	65
Surgery	75	0	14	4	2	48	0	7
Clinical medicine, nec	2,519	5	331	192	199	1,310	247	235
Other health	77,120	421	4,931	5,966	4,148	52,077	5,028	4,549
Dental sciences	1,697	6	180	36	79	1,005	62	329
Nursing	29,325	180	1,824	2,660	1,449	20,860	1,771	581
Pharmaceutical sciences	5,220	18	700	443	201	2,070	290	1,498
Speech pathology/audiology	14,291	56	439	697	940	10,908	796	455
Veterinary sciences	1,732	6	62	54	40	1,128	47	395
Health related, nec	24,855	155	1,726	2,076	1,439	16,106	2,062	1,291

nec = not elsewhere classified.

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