

TABLE 28. Male 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						Temporary-visa holders
		American Indian/ Alaska Native	Asian/Pacific Islander	Black, non- Hispanic	Hispanic	White, non- Hispanic	Other or unknown	
All surveyed fields	296,934	966	19,523	11,199	12,053	135,973	16,759	100,461
Science and engineering	274,311	855	17,546	9,812	10,682	123,021	15,197	97,198
Science	177,928	654	10,328	7,531	7,586	88,652	10,759	52,418
Agricultural sciences	7,187	35	144	153	270	4,745	247	1,593
Biological sciences	29,271	92	2,280	861	1,264	16,042	1,502	7,230
Anatomy	437	0	44	17	17	243	20	96
Biochemistry	2,969	3	233	59	104	1,410	125	1,035
Biology	6,833	22	380	245	357	4,170	437	1,222
Biometry/epidemiology	1,807	2	211	70	76	831	103	514
Biophysics	746	4	63	13	21	376	32	237
Botany	857	4	40	6	22	462	33	290
Cell biology	2,735	6	234	63	113	1,458	157	704
Ecology	993	3	22	8	26	716	76	142
Entomology/parasitology	676	3	17	2	18	429	21	186
Genetics	846	3	95	15	28	407	54	244
Microbiology/immunology/virology	2,322	9	210	83	122	1,280	106	512
Nutrition	1,046	2	50	49	54	453	30	408
Pathology	629	0	71	16	33	329	25	155
Pharmacology	1,428	10	136	67	68	745	43	359
Physiology	1,193	4	190	35	41	635	29	259
Zoology	596	3	15	4	14	447	19	94
Biosciences, nec	3,158	14	269	109	150	1,651	192	773
Computer sciences	36,965	63	3,485	1,104	867	13,167	2,396	15,883
Earth, atmospheric, and ocean sciences	8,182	40	207	119	235	5,508	365	1,708
Atmospheric sciences	723	4	35	22	15	459	24	164
Geosciences	4,282	22	70	40	106	2,927	171	946
Oceanography	1,292	2	27	8	70	861	45	279
Earth/atmospheric/ocean sciences, nec	1,885	12	75	49	44	1,261	125	319
Mathematical sciences	12,387	26	736	364	391	5,547	667	4,656
Mathematics/applied mathematics	10,300	26	594	302	344	4,791	577	3,666
Statistics	2,087	0	142	62	47	756	90	990
Physical sciences	24,474	50	1,060	541	743	11,007	1,032	10,041
Astronomy	764	1	23	4	10	425	28	273
Chemistry	12,544	34	643	333	441	5,767	462	4,864
Physics	10,810	13	380	191	272	4,619	481	4,854
Physical sciences, nec	356	2	14	13	20	196	61	50
Psychology	13,960	89	561	1,243	1,132	8,570	1,120	1,245
Clinical psychology	3,124	31	109	170	367	2,074	271	102
Psychology, general	5,169	25	237	644	284	2,981	272	726
Psychology, nec	5,667	33	215	429	481	3,515	577	417
Social sciences	45,502	259	1,855	3,146	2,684	24,066	3,430	10,062
Agricultural economics	1,341	11	16	24	27	612	35	616
Anthropology (cultural/social)	2,858	39	90	55	161	1,927	213	373
Economics (except agricultural)	7,777	13	335	224	236	2,567	324	4,078
Geography	2,802	13	66	65	78	1,982	144	454
History and philosophy of science	580	4	28	20	30	405	49	44
Linguistics	1,018	8	48	15	63	460	77	347
Political science	18,278	82	787	1,698	1,279	10,058	1,748	2,626
Sociology	3,088	25	125	306	260	1,687	166	519
Sociology/anthropology	292	7	1	37	14	186	14	33
Social sciences, nec	7,468	57	359	702	536	4,182	660	972

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Engineering	96,383	201	7,218	2,281	3,096	34,369	4,438	44,780
Aerospace engineering	3,489	13	161	54	96	1,535	165	1,465
Agricultural engineering	703	1	31	9	4	299	8	351
Biomedical engineering	3,679	11	503	78	116	1,478	160	1,333
Chemical engineering	5,346	14	334	95	132	1,990	126	2,655
Civil engineering	13,106	35	641	292	612	5,760	538	5,228
Electrical engineering	31,794	43	3,071	666	913	8,476	1,384	17,241
Engineering science	1,733	6	120	26	39	692	50	800
Industrial engineering	10,623	37	697	441	418	4,223	717	4,090
Mechanical engineering	15,469	18	817	278	488	6,063	665	7,140
Metallurgical/materials engineering	3,739	6	249	57	67	1,330	104	1,926
Mining engineering	266	1	5	5	5	132	8	110
Nuclear engineering	775	3	28	8	21	408	25	282
Petroleum engineering	711	0	17	17	9	109	9	550
Engineering, nec	4,950	13	544	255	176	1,874	479	1,609
Health	22,623	111	1,977	1,387	1,371	12,952	1,562	3,263
Medical fields	7,463	32	781	477	503	3,882	474	1,314
Anesthesiology	481	1	20	15	8	349	51	37
Cardiology	61	0	1	6	0	8	33	13
Endocrinology	24	0	2	1	1	9	2	9
Gastroenterology	7	0	0	0	0	7	0	0
Hematology	14	0	3	2	0	8	1	0
Neurology	1,311	3	134	43	61	746	62	262
Obstetrics/gynecology	7	0	2	1	0	1	0	3
Oncology/cancer research	117	0	11	5	4	70	4	23
Ophthalmology	148	1	39	4	6	68	16	14
Otorhinolaryngology	11	0	3	0	1	7	0	0
Pediatrics	61	0	2	4	2	31	2	20
Preventive medicine/community health	3,830	22	374	328	311	1,876	157	762
Psychiatry	82	1	5	5	28	36	4	3
Pulmonary disease	1	0	0	0	0	1	0	0
Radiology	146	2	13	2	5	77	9	38
Surgery	45	0	7	2	2	28	0	6
Clinical medicine, nec	1,117	2	165	59	74	560	133	124
Other health	15,160	79	1,196	910	868	9,070	1,088	1,949
Dental sciences	1,003	2	87	15	39	630	37	193
Nursing	2,775	23	176	191	228	1,918	166	73
Pharmaceutical sciences	2,319	7	296	151	78	874	133	780
Speech pathology/audiology	993	5	34	47	70	691	74	72
Veterinary sciences	692	2	28	14	17	377	20	234
Health related, nec	7,378	40	575	492	436	4,580	658	597

nec = not elsewhere classified.

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