

TABLE 14. Male graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All surveyed fields	264,497	261,019	262,675	262,109	271,157	287,078	298,687	296,934
U.S. citizens and permanent residents	191,330	186,588	183,127	173,637	174,516	182,440	193,760	196,473
American Indian/Alaska Native	890	891	850	843	929	931	1,017	966
Asian/Pacific Islander	17,118	17,564	17,750	16,079	16,927	18,443	19,999	19,523
Black, non-Hispanic	9,115	9,245	9,528	9,289	9,436	10,023	10,758	11,199
Hispanic	8,559	8,756	9,178	9,352	9,648	10,327	11,458	12,053
White, non-Hispanic	143,707	138,292	134,388	125,512	124,759	128,790	135,083	135,973
Other or unknown	11,941	11,840	11,433	12,562	12,817	13,926	15,445	16,759
Temporary-visa holders	73,167	74,431	79,548	88,472	96,641	104,638	104,927	100,461
Science and engineering	245,619	241,429	242,786	243,057	251,812	266,248	276,260	274,311
U.S. citizens and permanent residents	174,934	169,490	165,823	157,023	158,015	165,004	174,927	177,113
American Indian/Alaska Native	804	797	744	734	808	811	890	855
Asian/Pacific Islander	15,682	15,896	16,046	14,404	15,189	16,675	18,062	17,546
Black, non-Hispanic	8,329	8,320	8,565	8,298	8,383	8,910	9,456	9,812
Hispanic	7,695	7,842	8,196	8,268	8,514	9,191	10,183	10,682
White, non-Hispanic	131,492	125,734	121,810	113,782	113,259	116,620	122,137	123,021
Other or unknown	10,932	10,901	10,462	11,537	11,862	12,797	14,199	15,197
Temporary-visa holders	70,685	71,939	76,963	86,034	93,797	101,244	101,333	97,198
Science	163,191	160,379	160,982	159,691	164,576	171,547	176,470	177,928
U.S. citizens and permanent residents	122,823	119,622	118,016	112,367	113,471	117,447	122,980	125,510
American Indian/Alaska Native	624	624	569	596	646	636	671	654
Asian/Pacific Islander	9,331	9,718	9,894	8,914	9,253	9,947	10,408	10,328
Black, non-Hispanic	6,366	6,378	6,576	6,348	6,449	6,898	7,285	7,531
Hispanic	5,522	5,629	5,974	5,988	6,173	6,691	7,261	7,586
White, non-Hispanic	93,670	89,802	87,611	82,325	82,401	84,120	87,560	88,652
Other or unknown	7,310	7,471	7,392	8,196	8,549	9,155	9,795	10,759
Temporary-visa holders	40,368	40,757	42,966	47,324	51,105	54,100	53,490	52,418
Agricultural sciences	7,497	7,316	7,263	6,935	6,892	7,045	7,171	7,187
U.S. citizens and permanent residents	5,543	5,508	5,580	5,371	5,316	5,444	5,613	5,594
American Indian/Alaska Native	34	45	46	34	35	36	38	35
Asian/Pacific Islander	168	160	143	112	115	136	151	144
Black, non-Hispanic	128	168	159	139	126	162	194	153
Hispanic	248	211	209	223	210	197	251	270
White, non-Hispanic	4,771	4,759	4,856	4,626	4,547	4,670	4,738	4,745
Other or unknown	194	165	167	237	283	243	241	247
Temporary-visa holders	1,954	1,808	1,683	1,564	1,576	1,601	1,558	1,593
Biological sciences	28,229	27,742	27,338	26,475	26,590	27,706	28,818	29,271
U.S. citizens and permanent residents	22,288	21,856	21,590	20,557	20,536	21,033	21,889	22,041
American Indian/Alaska Native	91	88	80	79	95	88	89	92
Asian/Pacific Islander	2,162	2,089	2,099	1,993	2,171	2,199	2,264	2,280
Black, non-Hispanic	753	764	761	760	792	813	858	861
Hispanic	897	924	968	963	1,009	1,123	1,218	1,264
White, non-Hispanic	17,332	16,869	16,511	15,578	15,347	15,614	16,060	16,042
Other or unknown	1,053	1,122	1,171	1,184	1,122	1,196	1,400	1,502
Temporary-visa holders	5,941	5,886	5,748	5,918	6,054	6,673	6,929	7,230
Computer sciences	26,110	27,225	29,933	33,270	36,894	39,244	38,880	36,965
U.S. citizens and permanent residents	16,876	17,028	17,911	17,682	18,499	19,997	21,369	21,082
American Indian/Alaska Native	43	68	50	50	58	52	68	63
Asian/Pacific Islander	2,978	3,299	3,826	3,323	3,440	3,810	3,794	3,485
Black, non-Hispanic	765	764	815	844	943	1,063	1,128	1,104
Hispanic	513	559	653	617	650	733	815	867
White, non-Hispanic	10,919	10,750	10,856	10,839	11,279	12,000	13,221	13,167
Other or unknown	1,658	1,588	1,711	2,009	2,129	2,339	2,343	2,396
Temporary-visa holders	9,234	10,197	12,022	15,588	18,395	19,247	17,511	15,883

TABLE 14. Male graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Earth, atmospheric, and ocean sciences	9,132	8,690	8,358	8,188	7,949	7,993	8,082	8,182
U.S. citizens and permanent residents	7,336	6,954	6,695	6,392	6,148	6,237	6,349	6,474
American Indian/Alaska Native	47	44	32	33	37	45	30	40
Asian/Pacific Islander	253	238	208	179	171	158	163	207
Black, non-Hispanic	105	103	112	120	125	135	130	119
Hispanic	236	202	200	186	196	191	223	235
White, non-Hispanic	6,363	6,033	5,873	5,612	5,362	5,389	5,422	5,508
Other or unknown	332	334	270	262	257	319	381	365
Temporary-visa holders	1,796	1,736	1,663	1,796	1,801	1,756	1,733	1,708
Mathematical sciences	10,851	10,497	10,214	9,870	10,381	11,277	12,176	12,387
U.S. citizens and permanent residents	7,006	6,859	6,348	5,932	6,240	6,760	7,524	7,731
American Indian/Alaska Native	29	16	12	15	22	18	18	26
Asian/Pacific Islander	622	704	565	531	552	653	739	736
Black, non-Hispanic	347	339	324	299	320	340	373	364
Hispanic	254	276	270	310	322	335	381	391
White, non-Hispanic	5,316	5,057	4,798	4,354	4,587	4,877	5,353	5,547
Other or unknown	438	467	379	423	437	537	660	667
Temporary-visa holders	3,845	3,638	3,866	3,938	4,141	4,517	4,652	4,656
Physical sciences	22,257	21,822	21,776	21,270	21,702	22,275	23,520	24,474
U.S. citizens and permanent residents	14,373	14,004	13,697	12,898	12,976	13,073	13,690	14,433
American Indian/Alaska Native	46	41	40	54	54	55	54	50
Asian/Pacific Islander	1,044	1,150	1,046	951	916	893	970	1,060
Black, non-Hispanic	508	481	501	493	462	486	508	541
Hispanic	499	525	549	507	539	605	678	743
White, non-Hispanic	11,587	11,048	10,872	10,176	10,084	10,123	10,515	11,007
Other or unknown	689	759	689	717	921	911	965	1,032
Temporary-visa holders	7,884	7,818	8,079	8,372	8,726	9,202	9,830	10,041
Psychology	15,507	15,095	14,456	13,594	13,149	13,437	13,395	13,960
U.S. citizens and permanent residents	14,757	14,297	13,666	12,842	12,372	12,345	12,240	12,715
American Indian/Alaska Native	118	87	88	103	83	83	95	89
Asian/Pacific Islander	510	551	536	532	548	553	576	561
Black, non-Hispanic	908	887	905	871	868	946	934	1,243
Hispanic	860	881	957	1,039	1,048	1,128	1,131	1,132
White, non-Hispanic	11,316	10,915	10,195	9,359	9,025	8,818	8,687	8,570
Other or unknown	1,045	976	985	938	800	817	817	1,120
Temporary-visa holders	750	798	790	752	777	1,092	1,155	1,245
Social sciences	43,608	41,992	41,644	40,089	41,019	42,570	44,428	45,502
U.S. citizens and permanent residents	34,644	33,116	32,529	30,693	31,384	32,558	34,306	35,440
American Indian/Alaska Native	216	235	221	228	262	259	279	259
Asian/Pacific Islander	1,594	1,527	1,471	1,293	1,340	1,545	1,751	1,855
Black, non-Hispanic	2,852	2,872	2,999	2,822	2,813	2,953	3,160	3,146
Hispanic	2,015	2,051	2,168	2,143	2,199	2,379	2,564	2,684
White, non-Hispanic	26,066	24,371	23,650	21,781	22,170	22,629	23,564	24,066
Other or unknown	1,901	2,060	2,020	2,426	2,600	2,793	2,988	3,430
Temporary-visa holders	8,964	8,876	9,115	9,396	9,635	10,012	10,122	10,062
Engineering	82,428	81,050	81,804	83,366	87,236	94,701	99,790	96,383
U.S. citizens and permanent residents	52,111	49,868	47,807	44,656	44,544	47,557	51,947	51,603
American Indian/Alaska Native	180	173	175	138	162	175	219	201
Asian/Pacific Islander	6,351	6,178	6,152	5,490	5,936	6,728	7,654	7,218
Black, non-Hispanic	1,963	1,942	1,989	1,950	1,934	2,012	2,171	2,281
Hispanic	2,173	2,213	2,222	2,280	2,341	2,500	2,922	3,096
White, non-Hispanic	37,822	35,932	34,199	31,457	30,858	32,500	34,577	34,369
Other or unknown	3,622	3,430	3,070	3,341	3,313	3,642	4,404	4,438
Temporary-visa holders	30,317	31,182	33,997	38,710	42,692	47,144	47,843	44,780

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Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Chemical engineering	5,568	5,366	5,150	5,181	5,084	5,419	5,416	5,346
U.S. citizens and permanent residents	3,348	3,149	2,849	2,672	2,433	2,615	2,659	2,691
American Indian/Alaska Native	10	13	11	9	5	13	13	14
Asian/Pacific Islander	361	321	310	336	334	362	352	334
Black, non-Hispanic	85	105	68	89	78	79	95	95
Hispanic	105	114	128	113	108	122	143	132
White, non-Hispanic	2,623	2,420	2,162	1,964	1,807	1,912	1,919	1,990
Other or unknown	164	176	170	161	101	127	137	126
Temporary-visa holders	2,220	2,217	2,301	2,509	2,651	2,804	2,757	2,655
Civil engineering	13,029	12,415	12,069	12,174	12,162	12,808	13,492	13,106
U.S. citizens and permanent residents	8,975	8,509	7,846	7,397	7,115	7,344	7,906	7,878
American Indian/Alaska Native	41	31	43	29	29	40	42	35
Asian/Pacific Islander	760	791	615	506	492	557	658	641
Black, non-Hispanic	299	277	277	270	273	271	273	292
Hispanic	488	504	498	540	508	504	564	612
White, non-Hispanic	6,896	6,459	5,990	5,641	5,381	5,479	5,834	5,760
Other or unknown	491	447	423	411	432	493	535	538
Temporary-visa holders	4,054	3,906	4,223	4,777	5,047	5,464	5,586	5,228
Electrical engineering	26,237	26,512	26,689	28,075	29,888	32,678	33,969	31,794
U.S. citizens and permanent residents	15,535	14,941	14,128	13,069	13,154	13,911	15,156	14,553
American Indian/Alaska Native	39	25	36	26	39	27	49	43
Asian/Pacific Islander	2,797	2,734	2,787	2,457	2,726	3,107	3,442	3,071
Black, non-Hispanic	680	680	686	629	620	645	629	666
Hispanic	689	692	631	618	683	766	890	913
White, non-Hispanic	9,926	9,495	8,798	8,001	7,865	8,093	8,673	8,476
Other or unknown	1,404	1,315	1,190	1,338	1,221	1,273	1,473	1,384
Temporary-visa holders	10,702	11,571	12,561	15,006	16,734	18,767	18,813	17,241
Industrial engineering	9,301	8,769	9,144	9,406	10,132	10,957	11,047	10,623
U.S. citizens and permanent residents	6,537	6,000	6,070	5,678	5,717	6,204	6,584	6,533
American Indian/Alaska Native	17	23	23	27	30	27	37	37
Asian/Pacific Islander	563	487	586	464	492	611	738	697
Black, non-Hispanic	270	257	309	310	349	352	419	441
Hispanic	281	247	291	298	302	302	383	418
White, non-Hispanic	4,953	4,492	4,446	4,118	4,093	4,419	4,357	4,223
Other or unknown	453	494	415	461	451	493	650	717
Temporary-visa holders	2,764	2,769	3,074	3,728	4,415	4,753	4,463	4,090
Mechanical engineering	13,266	12,934	13,168	13,403	13,908	15,056	16,039	15,469
U.S. citizens and permanent residents	8,185	7,893	7,619	7,046	7,066	7,440	8,277	8,329
American Indian/Alaska Native	27	20	25	18	23	23	35	18
Asian/Pacific Islander	804	835	829	674	777	743	861	817
Black, non-Hispanic	324	308	287	292	273	279	296	278
Hispanic	298	332	336	317	342	367	441	488
White, non-Hispanic	6,217	5,866	5,742	5,318	5,204	5,511	5,979	6,063
Other or unknown	515	532	400	427	447	517	665	665
Temporary-visa holders	5,081	5,041	5,549	6,357	6,842	7,616	7,762	7,140
Other engineering	15,027	15,054	15,584	15,127	16,062	17,783	19,827	20,045
U.S. citizens and permanent residents	9,531	9,376	9,295	8,794	9,059	10,043	11,365	11,619
American Indian/Alaska Native	46	61	37	29	36	45	43	54
Asian/Pacific Islander	1,066	1,010	1,025	1,053	1,115	1,348	1,603	1,658
Black, non-Hispanic	305	315	362	360	341	386	459	509
Hispanic	312	324	338	394	398	439	501	533
White, non-Hispanic	7,207	7,200	7,061	6,415	6,508	7,086	7,815	7,857
Other or unknown	595	466	472	543	661	739	944	1,008
Temporary-visa holders	5,496	5,678	6,289	6,333	7,003	7,740	8,462	8,426

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Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Health fields	18,878	19,590	19,889	19,052	19,345	20,830	22,427	22,623
U.S. citizens and permanent residents	16,396	17,098	17,304	16,614	16,501	17,436	18,833	19,360
American Indian/Alaska Native	86	94	106	109	121	120	127	111
Asian/Pacific Islander	1,436	1,668	1,704	1,675	1,738	1,768	1,937	1,977
Black, non-Hispanic	786	925	963	991	1,053	1,113	1,302	1,387
Hispanic	864	914	982	1,084	1,134	1,136	1,275	1,371
White, non-Hispanic	12,215	12,558	12,578	11,730	11,500	12,170	12,946	12,952
Other or unknown	1,009	939	971	1,025	955	1,129	1,246	1,562
Temporary-visa holders	2,482	2,492	2,585	2,438	2,844	3,394	3,594	3,263

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