

TABLE 13. 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	487,208	485,627	493,256	493,311	509,620	540,433	567,134	574,334
U.S. citizens and permanent residents	383,327	378,560	377,802	364,954	368,840	387,548	412,247	424,033
American Indian/Alaska Native	1,969	2,036	1,994	2,021	2,136	2,240	2,399	2,385
Asian/Pacific Islander	30,371	31,615	32,717	30,250	32,035	35,041	38,289	38,615
Black, non-Hispanic	23,560	24,261	25,200	25,928	27,075	28,720	31,242	32,554
Hispanic	18,154	18,765	20,322	21,327	22,329	24,286	26,686	28,211
White, non-Hispanic	286,607	279,450	275,325	261,112	260,380	270,028	283,246	288,234
Other or unknown	22,666	22,433	22,244	24,316	24,885	27,233	30,385	34,034
Temporary-visa holders	103,881	107,067	115,454	128,357	140,780	152,885	154,887	150,301
Science and engineering	407,630	404,856	411,182	413,536	429,242	454,892	474,694	476,331
U.S. citizens and permanent residents	308,668	302,879	301,254	290,711	294,711	309,280	327,358	333,231
American Indian/Alaska Native	1,599	1,607	1,553	1,602	1,683	1,735	1,879	1,863
Asian/Pacific Islander	26,012	26,726	27,570	25,058	26,584	29,352	31,921	31,508
Black, non-Hispanic	19,341	19,651	20,273	20,834	21,459	22,673	24,174	24,695
Hispanic	14,984	15,487	16,520	17,203	17,974	19,639	21,244	22,388
White, non-Hispanic	228,007	220,667	216,750	205,569	206,027	213,162	222,709	224,982
Other or unknown	18,725	18,741	18,588	20,445	20,984	22,719	25,431	27,795
Temporary-visa holders	98,962	101,977	109,928	122,825	134,531	145,612	147,336	143,100
Science	306,482	304,818	309,491	309,424	319,749	335,224	347,317	352,630
U.S. citizens and permanent residents	244,026	240,630	241,066	234,000	237,740	247,918	259,965	266,252
American Indian/Alaska Native	1,360	1,371	1,311	1,394	1,456	1,491	1,575	1,584
Asian/Pacific Islander	17,879	18,714	19,409	17,784	18,577	19,968	21,151	21,215
Black, non-Hispanic	16,462	16,830	17,308	17,857	18,544	19,599	20,962	21,283
Hispanic	12,172	12,587	13,596	14,185	14,791	16,178	17,265	18,187
White, non-Hispanic	181,914	176,569	174,687	166,486	167,568	172,603	179,240	181,741
Other or unknown	14,239	14,559	14,755	16,294	16,804	18,079	19,772	22,242
Temporary-visa holders	62,456	64,188	68,425	75,424	82,009	87,306	87,352	86,378
Agricultural sciences	12,203	12,168	12,312	12,023	12,235	12,698	13,197	13,445
U.S. citizens and permanent residents	9,414	9,514	9,774	9,612	9,722	10,085	10,601	10,765
American Indian/Alaska Native	62	71	69	56	58	76	77	82
Asian/Pacific Islander	309	315	310	250	262	286	316	340
Black, non-Hispanic	288	344	310	292	327	375	460	394
Hispanic	411	391	422	440	425	406	490	528
White, non-Hispanic	7,990	8,093	8,383	8,152	8,147	8,486	8,799	8,936
Other or unknown	354	300	280	422	503	456	459	485
Temporary-visa holders	2,789	2,654	2,538	2,411	2,513	2,613	2,596	2,680
Biological sciences	56,705	56,695	56,959	56,282	57,639	61,133	64,701	66,520
U.S. citizens and permanent residents	45,641	45,359	45,770	44,521	45,205	47,307	49,865	50,832
American Indian/Alaska Native	197	191	186	189	205	211	236	249
Asian/Pacific Islander	4,479	4,439	4,476	4,246	4,710	4,855	5,158	5,354
Black, non-Hispanic	2,105	2,141	2,218	2,241	2,351	2,480	2,757	2,886
Hispanic	1,987	2,053	2,185	2,183	2,338	2,590	2,830	3,033
White, non-Hispanic	34,778	34,323	34,319	33,255	33,193	34,586	35,809	36,049
Other or unknown	2,095	2,212	2,386	2,407	2,408	2,585	3,075	3,261
Temporary-visa holders	11,064	11,336	11,189	11,761	12,434	13,826	14,836	15,688
Computer sciences	35,991	38,027	42,478	47,350	52,196	55,269	53,696	50,331
U.S. citizens and permanent residents	23,074	23,605	25,323	25,088	26,142	28,203	29,420	28,529
American Indian/Alaska Native	60	92	74	80	87	83	104	93
Asian/Pacific Islander	4,626	5,219	6,144	5,332	5,427	5,953	5,767	5,167
Black, non-Hispanic	1,300	1,355	1,485	1,512	1,709	1,898	1,951	1,818
Hispanic	723	754	865	863	894	1,004	1,101	1,160
White, non-Hispanic	14,062	13,948	14,377	14,468	15,057	15,962	17,260	17,043
Other or unknown	2,303	2,237	2,378	2,833	2,968	3,303	3,237	3,248
Temporary-visa holders	12,917	14,422	17,155	22,262	26,054	27,066	24,276	21,802

TABLE 13. 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	14,548	14,258	14,083	13,941	13,841	14,240	14,620	15,110
U.S. citizens and permanent residents	12,033	11,759	11,563	11,249	11,059	11,472	11,845	12,328
American Indian/Alaska Native	82	84	63	61	70	81	63	67
Asian/Pacific Islander	417	424	400	351	341	355	363	436
Black, non-Hispanic	203	202	213	220	227	266	270	260
Hispanic	399	370	400	355	397	413	484	537
White, non-Hispanic	10,402	10,098	10,007	9,812	9,573	9,799	9,963	10,327
Other or unknown	530	581	480	450	451	558	702	701
Temporary-visa holders	2,515	2,499	2,520	2,692	2,782	2,768	2,775	2,782
Mathematical sciences	16,719	16,485	16,257	15,650	16,651	18,163	19,465	19,873
U.S. citizens and permanent residents	11,175	11,064	10,330	9,593	10,167	11,139	12,057	12,519
American Indian/Alaska Native	43	34	30	25	38	24	25	39
Asian/Pacific Islander	1,051	1,174	1,002	948	985	1,184	1,364	1,332
Black, non-Hispanic	657	613	594	572	590	626	655	692
Hispanic	427	454	447	460	482	542	604	618
White, non-Hispanic	8,351	8,097	7,659	6,955	7,386	7,923	8,414	8,832
Other or unknown	646	692	598	633	686	840	995	1,006
Temporary-visa holders	5,544	5,421	5,927	6,057	6,484	7,024	7,408	7,354
Physical sciences	31,105	30,575	30,691	30,385	31,038	32,341	34,298	35,772
U.S. citizens and permanent residents	20,210	19,837	19,559	18,730	18,835	19,251	20,213	21,223
American Indian/Alaska Native	70	64	69	75	81	83	79	78
Asian/Pacific Islander	1,638	1,760	1,682	1,524	1,458	1,424	1,619	1,752
Black, non-Hispanic	952	913	903	918	875	893	939	995
Hispanic	782	832	895	844	896	981	1,094	1,232
White, non-Hispanic	15,767	15,218	15,037	14,343	14,248	14,620	15,107	15,723
Other or unknown	1,001	1,050	973	1,026	1,277	1,250	1,375	1,443
Temporary-visa holders	10,895	10,738	11,132	11,655	12,203	13,090	14,085	14,549
Psychology	53,126	52,557	51,727	50,466	50,467	51,165	52,211	54,052
U.S. citizens and permanent residents	51,118	50,371	49,488	48,203	47,946	48,308	49,099	50,887
American Indian/Alaska Native	341	311	300	360	334	320	324	323
Asian/Pacific Islander	1,909	2,019	2,038	2,063	2,176	2,186	2,376	2,444
Black, non-Hispanic	3,644	3,813	3,749	4,214	4,347	4,491	4,692	4,994
Hispanic	3,075	3,228	3,567	4,145	4,309	4,655	4,680	4,777
White, non-Hispanic	38,724	37,622	36,267	33,801	33,578	33,473	33,587	33,636
Other or unknown	3,425	3,378	3,567	3,620	3,202	3,183	3,440	4,713
Temporary-visa holders	2,008	2,186	2,239	2,263	2,521	2,857	3,112	3,165
Social sciences	86,085	84,053	84,984	83,327	85,682	90,215	95,129	97,527
U.S. citizens and permanent residents	71,361	69,121	69,259	67,004	68,664	72,153	76,865	79,169
American Indian/Alaska Native	505	524	520	548	583	613	667	653
Asian/Pacific Islander	3,450	3,364	3,357	3,070	3,218	3,725	4,188	4,390
Black, non-Hispanic	7,313	7,449	7,836	7,888	8,118	8,570	9,238	9,244
Hispanic	4,368	4,505	4,815	4,895	5,050	5,587	5,982	6,302
White, non-Hispanic	51,840	49,170	48,638	45,700	46,386	47,754	50,301	51,195
Other or unknown	3,885	4,109	4,093	4,903	5,309	5,904	6,489	7,385
Temporary-visa holders	14,724	14,932	15,725	16,323	17,018	18,062	18,264	18,358
Engineering	101,148	100,038	101,691	104,112	109,493	119,668	127,377	123,701
U.S. citizens and permanent residents	64,642	62,249	60,188	56,711	56,971	61,362	67,393	66,979
American Indian/Alaska Native	239	236	242	208	227	244	304	279
Asian/Pacific Islander	8,133	8,012	8,161	7,274	8,007	9,384	10,770	10,293
Black, non-Hispanic	2,879	2,821	2,965	2,977	2,915	3,074	3,212	3,412
Hispanic	2,812	2,900	2,924	3,018	3,183	3,461	3,979	4,201
White, non-Hispanic	46,093	44,098	42,063	39,083	38,459	40,559	43,469	43,241
Other or unknown	4,486	4,182	3,833	4,151	4,180	4,640	5,659	5,553
Temporary-visa holders	36,506	37,789	41,503	47,401	52,522	58,306	59,984	56,722

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Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Chemical engineering	7,288	7,093	6,883	7,056	6,913	7,414	7,516	7,452
U.S. citizens and permanent residents	4,424	4,208	3,869	3,726	3,418	3,701	3,753	3,830
American Indian/Alaska Native	18	21	16	20	13	21	19	27
Asian/Pacific Islander	512	469	486	501	494	566	557	528
Black, non-Hispanic	172	185	147	168	167	160	173	169
Hispanic	142	179	182	182	180	206	249	249
White, non-Hispanic	3,365	3,124	2,805	2,627	2,417	2,565	2,554	2,666
Other or unknown	215	230	233	228	147	183	201	191
Temporary-visa holders	2,864	2,885	3,014	3,330	3,495	3,713	3,763	3,622
Civil engineering	17,193	16,517	16,226	16,451	16,665	17,713	18,890	18,560
U.S. citizens and permanent residents	12,090	11,555	10,801	10,306	10,072	10,553	11,458	11,454
American Indian/Alaska Native	58	43	56	39	43	58	65	51
Asian/Pacific Islander	1,050	1,104	931	744	771	855	1,024	1,022
Black, non-Hispanic	443	410	450	448	431	453	428	452
Hispanic	694	723	701	776	747	778	846	895
White, non-Hispanic	9,208	8,665	8,088	7,759	7,492	7,707	8,333	8,264
Other or unknown	637	610	575	540	588	702	762	770
Temporary-visa holders	5,103	4,962	5,425	6,145	6,593	7,160	7,432	7,106
Electrical engineering	30,787	31,384	31,822	33,611	36,100	39,948	41,763	38,995
U.S. citizens and permanent residents	18,032	17,459	16,517	15,315	15,534	16,579	18,118	17,205
American Indian/Alaska Native	46	33	47	37	45	39	63	54
Asian/Pacific Islander	3,489	3,443	3,491	3,119	3,454	4,079	4,606	4,106
Black, non-Hispanic	874	874	886	830	812	846	812	861
Hispanic	810	812	769	717	825	941	1,094	1,097
White, non-Hispanic	11,092	10,729	9,897	8,982	8,876	9,121	9,709	9,444
Other or unknown	1,721	1,568	1,427	1,630	1,522	1,553	1,834	1,643
Temporary-visa holders	12,755	13,925	15,305	18,296	20,566	23,369	23,645	21,790
Industrial engineering	11,957	11,221	11,803	12,119	12,940	14,033	14,313	13,852
U.S. citizens and permanent residents	8,616	7,869	8,073	7,574	7,607	8,318	8,845	8,757
American Indian/Alaska Native	23	34	39	41	43	34	52	48
Asian/Pacific Islander	739	643	784	628	686	878	1,023	974
Black, non-Hispanic	489	465	541	557	591	616	685	714
Hispanic	396	364	426	439	469	477	562	629
White, non-Hispanic	6,391	5,764	5,761	5,329	5,255	5,668	5,680	5,484
Other or unknown	578	599	522	580	563	645	843	908
Temporary-visa holders	3,341	3,352	3,730	4,545	5,333	5,715	5,468	5,095
Mechanical engineering	15,045	14,696	14,956	15,235	15,852	17,139	18,393	17,946
U.S. citizens and permanent residents	9,351	9,046	8,760	8,097	8,183	8,604	9,643	9,770
American Indian/Alaska Native	35	25	33	27	32	32	42	24
Asian/Pacific Islander	947	973	1,008	804	945	912	1,035	1,016
Black, non-Hispanic	428	412	375	396	354	358	382	369
Hispanic	360	389	388	366	407	450	537	606
White, non-Hispanic	6,979	6,657	6,491	6,005	5,932	6,254	6,883	6,991
Other or unknown	602	590	465	499	513	598	764	764
Temporary-visa holders	5,694	5,650	6,196	7,138	7,669	8,535	8,750	8,176
Other engineering	18,878	19,127	20,001	19,640	21,023	23,421	26,502	26,896
U.S. citizens and permanent residents	12,129	12,112	12,168	11,693	12,157	13,607	15,576	15,963
American Indian/Alaska Native	59	80	51	44	51	60	63	75
Asian/Pacific Islander	1,396	1,380	1,461	1,478	1,657	2,094	2,525	2,647
Black, non-Hispanic	473	475	566	578	560	641	732	847
Hispanic	410	433	458	538	555	609	691	725
White, non-Hispanic	9,058	9,159	9,021	8,381	8,487	9,244	10,310	10,392
Other or unknown	733	585	611	674	847	959	1,255	1,277
Temporary-visa holders	6,749	7,015	7,833	7,947	8,866	9,814	10,926	10,933

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Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Health fields	79,578	80,771	82,074	79,775	80,378	85,541	92,440	98,003
U.S. citizens and permanent residents	74,659	75,681	76,548	74,243	74,129	78,268	84,889	90,802
American Indian/Alaska Native	370	429	441	419	453	505	520	522
Asian/Pacific Islander	4,359	4,889	5,147	5,192	5,451	5,689	6,368	7,107
Black, non-Hispanic	4,219	4,610	4,927	5,094	5,616	6,047	7,068	7,859
Hispanic	3,170	3,278	3,802	4,124	4,355	4,647	5,442	5,823
White, non-Hispanic	58,600	58,783	58,575	55,543	54,353	56,866	60,537	63,252
Other or unknown	3,941	3,692	3,656	3,871	3,901	4,514	4,954	6,239
Temporary-visa holders	4,919	5,090	5,526	5,532	6,249	7,273	7,551	7,201

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