

TABLE 21. Full-time 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	327,289	327,389	334,423	341,283	354,522	379,007	397,384	402,161
U.S. citizens and permanent residents	238,582	236,368	236,247	231,070	233,653	247,727	265,165	273,841
American Indian/Alaska Native	1,361	1,339	1,290	1,365	1,413	1,496	1,548	1,581
Asian/Pacific Islander	20,049	20,941	21,643	19,730	20,863	22,919	24,623	25,168
Black, non-Hispanic	13,567	13,782	13,963	15,014	15,307	16,347	17,678	18,543
Hispanic	11,545	11,955	12,810	13,625	14,328	15,615	17,298	18,067
White, non-Hispanic	180,714	177,215	175,601	168,649	168,061	175,944	186,026	190,239
Other or unknown	11,346	11,136	10,940	12,687	13,681	15,406	17,992	20,243
Temporary-visa holders	88,707	91,021	98,176	110,213	120,869	131,280	132,219	128,320
Science and engineering	280,669	278,943	283,893	291,355	304,021	325,517	339,028	340,615
U.S. citizens and permanent residents	195,974	191,945	190,076	185,673	188,225	200,245	212,988	218,266
American Indian/Alaska Native	1,123	1,098	1,026	1,102	1,131	1,157	1,235	1,256
Asian/Pacific Islander	17,046	17,563	18,078	16,123	17,103	19,045	20,355	20,548
Black, non-Hispanic	11,401	11,299	11,211	12,079	12,057	12,831	13,522	14,067
Hispanic	9,552	9,895	10,288	10,821	11,381	12,560	13,674	14,284
White, non-Hispanic	147,456	142,733	140,342	134,934	134,994	141,760	149,129	151,555
Other or unknown	9,396	9,357	9,131	10,614	11,559	12,892	15,073	16,556
Temporary-visa holders	84,695	86,998	93,817	105,682	115,796	125,272	126,040	122,349
Science	214,981	213,508	215,870	219,079	226,573	240,065	248,812	253,570
U.S. citizens and permanent residents	161,097	158,559	157,735	154,545	156,361	164,919	173,674	178,771
American Indian/Alaska Native	983	962	905	991	1,002	1,019	1,070	1,100
Asian/Pacific Islander	12,326	12,759	13,090	11,837	12,457	13,439	14,131	14,501
Black, non-Hispanic	9,727	9,721	9,605	10,365	10,401	11,026	11,687	12,097
Hispanic	7,963	8,251	8,672	9,112	9,568	10,567	11,384	11,867
White, non-Hispanic	122,705	119,278	117,928	113,493	113,332	118,238	123,261	125,425
Other or unknown	7,393	7,588	7,535	8,747	9,601	10,630	12,141	13,781
Temporary-visa holders	53,884	54,949	58,135	64,534	70,212	75,146	75,138	74,799
Agricultural sciences	9,362	9,199	9,371	9,357	9,405	9,685	10,003	10,040
U.S. citizens and permanent residents	6,951	6,915	7,176	7,259	7,178	7,363	7,653	7,628
American Indian/Alaska Native	47	58	51	41	41	58	54	59
Asian/Pacific Islander	244	250	249	196	211	228	259	264
Black, non-Hispanic	233	221	218	244	267	289	346	298
Hispanic	300	293	315	344	306	294	368	412
White, non-Hispanic	5,862	5,881	6,125	6,118	5,976	6,154	6,307	6,261
Other or unknown	265	212	218	316	377	340	319	334
Temporary-visa holders	2,411	2,284	2,195	2,098	2,227	2,322	2,350	2,412
Biological sciences	46,657	46,779	46,946	46,787	48,138	51,596	54,350	55,819
U.S. citizens and permanent residents	36,498	36,384	36,739	35,967	36,668	38,757	40,561	41,304
American Indian/Alaska Native	165	160	141	160	176	178	192	205
Asian/Pacific Islander	3,817	3,811	3,864	3,630	4,080	4,209	4,468	4,611
Black, non-Hispanic	1,669	1,638	1,687	1,718	1,817	1,942	2,097	2,238
Hispanic	1,612	1,656	1,756	1,726	1,892	2,142	2,334	2,521
White, non-Hispanic	27,852	27,592	27,543	26,922	26,820	28,281	29,022	29,265
Other or unknown	1,383	1,527	1,748	1,811	1,883	2,005	2,448	2,464
Temporary-visa holders	10,159	10,395	10,207	10,820	11,470	12,839	13,789	14,515
Computer sciences	18,335	19,972	22,687	26,558	30,087	32,579	30,708	29,281
U.S. citizens and permanent residents	8,578	9,042	9,939	9,630	10,164	11,919	12,744	12,799
American Indian/Alaska Native	22	47	33	39	42	45	51	49
Asian/Pacific Islander	1,964	2,299	2,869	2,259	2,329	2,678	2,466	2,204
Black, non-Hispanic	494	476	537	608	655	800	800	800
Hispanic	242	266	295	283	304	384	465	505
White, non-Hispanic	5,232	5,386	5,600	5,679	5,997	6,813	7,757	7,992
Other or unknown	624	568	605	762	837	1,199	1,205	1,249
Temporary-visa holders	9,757	10,930	12,748	16,928	19,923	20,660	17,964	16,482

TABLE 21. Full-time 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	10,510	10,444	10,484	10,558	10,504	11,116	11,497	11,685
U.S. citizens and permanent residents	8,289	8,258	8,268	8,155	8,032	8,579	8,984	9,129
American Indian/Alaska Native	46	57	42	46	53	64	50	51
Asian/Pacific Islander	288	304	292	272	266	278	294	356
Black, non-Hispanic	137	134	137	159	140	193	195	194
Hispanic	272	253	304	267	297	334	394	417
White, non-Hispanic	7,231	7,148	7,163	7,113	6,957	7,313	7,518	7,582
Other or unknown	315	362	330	298	319	397	533	529
Temporary-visa holders	2,221	2,186	2,216	2,403	2,472	2,537	2,513	2,556
Mathematical sciences	12,144	11,751	11,796	11,740	12,467	13,709	14,627	14,881
U.S. citizens and permanent residents	7,262	7,061	6,588	6,345	6,656	7,390	7,923	8,249
American Indian/Alaska Native	32	22	20	14	20	10	16	19
Asian/Pacific Islander	693	771	626	590	624	744	807	886
Black, non-Hispanic	386	355	342	349	359	369	382	391
Hispanic	242	260	274	273	300	334	364	361
White, non-Hispanic	5,572	5,286	4,991	4,722	4,931	5,416	5,788	6,007
Other or unknown	337	367	335	397	422	517	566	585
Temporary-visa holders	4,882	4,690	5,208	5,395	5,811	6,319	6,704	6,632
Physical sciences	26,882	26,391	26,635	26,492	27,179	28,619	30,441	31,686
U.S. citizens and permanent residents	16,805	16,468	16,300	15,601	15,719	16,236	17,235	18,153
American Indian/Alaska Native	58	57	62	65	67	71	70	68
Asian/Pacific Islander	1,345	1,442	1,400	1,251	1,198	1,148	1,335	1,439
Black, non-Hispanic	741	728	700	691	683	697	736	803
Hispanic	648	680	728	682	731	810	923	1,026
White, non-Hispanic	13,294	12,855	12,782	12,224	12,185	12,641	13,154	13,724
Other or unknown	719	706	628	688	855	869	1,017	1,093
Temporary-visa holders	10,077	9,923	10,335	10,891	11,460	12,383	13,206	13,533
Psychology	35,551	35,148	34,658	34,919	34,487	34,707	35,774	37,805
U.S. citizens and permanent residents	33,881	33,410	32,921	33,059	32,471	32,512	33,316	35,164
American Indian/Alaska Native	263	222	220	271	226	221	241	248
Asian/Pacific Islander	1,438	1,464	1,529	1,569	1,583	1,590	1,681	1,751
Black, non-Hispanic	2,221	2,417	2,200	2,574	2,515	2,484	2,571	2,758
Hispanic	2,096	2,305	2,454	2,941	2,988	3,233	3,271	3,356
White, non-Hispanic	26,281	25,444	24,840	23,869	23,191	23,023	23,355	23,698
Other or unknown	1,582	1,558	1,678	1,835	1,968	1,961	2,197	3,353
Temporary-visa holders	1,670	1,738	1,737	1,860	2,016	2,195	2,458	2,641
Social sciences	55,540	53,824	53,293	52,668	54,306	58,054	61,412	62,373
U.S. citizens and permanent residents	42,833	41,021	39,804	38,529	39,473	42,163	45,258	46,345
American Indian/Alaska Native	350	339	336	355	377	372	396	401
Asian/Pacific Islander	2,537	2,418	2,261	2,070	2,166	2,564	2,821	2,990
Black, non-Hispanic	3,846	3,752	3,784	4,022	3,965	4,252	4,560	4,615
Hispanic	2,551	2,538	2,546	2,596	2,750	3,036	3,265	3,269
White, non-Hispanic	31,381	29,686	28,884	26,846	27,275	28,597	30,360	30,896
Other or unknown	2,168	2,288	1,993	2,640	2,940	3,342	3,856	4,174
Temporary-visa holders	12,707	12,803	13,489	14,139	14,833	15,891	16,154	16,028
Engineering	65,688	65,435	68,023	72,276	77,448	85,452	90,216	87,045
U.S. citizens and permanent residents	34,877	33,386	32,341	31,128	31,864	35,326	39,314	39,495
American Indian/Alaska Native	140	136	121	111	129	138	165	156
Asian/Pacific Islander	4,720	4,804	4,988	4,286	4,646	5,606	6,224	6,047
Black, non-Hispanic	1,674	1,578	1,606	1,714	1,656	1,805	1,835	1,970
Hispanic	1,589	1,644	1,616	1,709	1,813	1,993	2,290	2,417
White, non-Hispanic	24,751	23,455	22,414	21,441	21,662	23,522	25,868	26,130
Other or unknown	2,003	1,769	1,596	1,867	1,958	2,262	2,932	2,775
Temporary-visa holders	30,811	32,049	35,682	41,148	45,584	50,126	50,902	47,550

TABLE 21. Full-time 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
Chemical engineering	5,821	5,630	5,593	5,861	5,829	6,279	6,414	6,379
U.S. citizens and permanent residents	3,281	3,059	2,826	2,792	2,630	2,874	2,935	3,071
American Indian/Alaska Native	13	16	13	17	9	19	18	25
Asian/Pacific Islander	405	356	384	420	409	438	423	418
Black, non-Hispanic	130	126	101	125	135	135	133	137
Hispanic	115	146	152	145	152	181	205	208
White, non-Hispanic	2,500	2,306	2,074	1,954	1,844	1,985	2,040	2,158
Other or unknown	118	109	102	131	81	116	116	125
Temporary-visa holders	2,540	2,571	2,767	3,069	3,199	3,405	3,479	3,308
Civil engineering	11,406	11,154	11,237	11,754	12,102	12,981	13,710	13,587
U.S. citizens and permanent residents	7,082	6,871	6,492	6,313	6,299	6,703	7,301	7,486
American Indian/Alaska Native	41	26	30	21	24	34	36	33
Asian/Pacific Islander	627	721	624	482	518	583	656	662
Black, non-Hispanic	247	230	247	275	261	276	251	261
Hispanic	442	464	457	516	495	474	561	558
White, non-Hispanic	5,444	5,136	4,839	4,739	4,695	4,937	5,359	5,522
Other or unknown	281	294	295	280	306	399	438	450
Temporary-visa holders	4,324	4,283	4,745	5,441	5,803	6,278	6,409	6,101
Electrical engineering	18,999	19,608	20,521	22,962	25,240	28,240	28,929	26,732
U.S. citizens and permanent residents	8,524	8,139	7,595	7,253	7,750	8,654	9,601	9,087
American Indian/Alaska Native	25	13	18	19	27	16	31	27
Asian/Pacific Islander	1,767	1,824	1,908	1,601	1,752	2,242	2,546	2,258
Black, non-Hispanic	482	466	452	427	428	458	438	488
Hispanic	388	387	327	328	376	499	555	560
White, non-Hispanic	5,108	4,875	4,410	4,230	4,471	4,764	5,169	5,050
Other or unknown	754	574	480	648	696	675	862	704
Temporary-visa holders	10,475	11,469	12,926	15,709	17,490	19,586	19,328	17,645
Industrial engineering	5,116	4,894	5,500	6,049	6,534	7,200	7,098	6,591
U.S. citizens and permanent residents	2,443	2,255	2,447	2,324	2,163	2,565	2,750	2,599
American Indian/Alaska Native	8	9	15	16	16	8	14	10
Asian/Pacific Islander	324	306	379	258	266	364	370	342
Black, non-Hispanic	189	166	175	231	200	246	258	253
Hispanic	144	125	148	155	171	174	190	233
White, non-Hispanic	1,651	1,523	1,617	1,497	1,365	1,601	1,616	1,514
Other or unknown	127	126	113	167	145	172	302	247
Temporary-visa holders	2,673	2,639	3,053	3,725	4,371	4,635	4,348	3,992
Mechanical engineering	10,432	10,073	10,331	10,795	11,436	12,512	13,356	12,787
U.S. citizens and permanent residents	5,591	5,212	5,007	4,614	4,795	5,186	5,861	5,888
American Indian/Alaska Native	22	19	18	12	18	20	22	18
Asian/Pacific Islander	631	626	663	488	609	578	661	626
Black, non-Hispanic	315	285	250	263	247	230	247	243
Hispanic	234	238	231	209	246	270	315	363
White, non-Hispanic	4,073	3,716	3,613	3,412	3,456	3,791	4,237	4,257
Other or unknown	316	328	232	230	219	297	379	381
Temporary-visa holders	4,841	4,861	5,324	6,181	6,641	7,326	7,495	6,899
Other engineering	13,914	14,076	14,841	14,855	16,307	18,240	20,709	20,969
U.S. citizens and permanent residents	7,956	7,850	7,974	7,832	8,227	9,344	10,866	11,364
American Indian/Alaska Native	31	53	27	26	35	41	44	43
Asian/Pacific Islander	966	971	1,030	1,037	1,092	1,401	1,568	1,741
Black, non-Hispanic	311	305	381	393	385	460	508	588
Hispanic	266	284	301	356	373	395	464	495
White, non-Hispanic	5,975	5,899	5,861	5,609	5,831	6,444	7,447	7,629
Other or unknown	407	338	374	411	511	603	835	868
Temporary-visa holders	5,958	6,226	6,867	7,023	8,080	8,896	9,843	9,605

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Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Health fields	46,620	48,446	50,530	49,928	50,501	53,490	58,356	61,546
U.S. citizens and permanent residents	42,608	44,423	46,171	45,397	45,428	47,482	52,177	55,575
American Indian/Alaska Native	238	241	264	263	282	339	313	325
Asian/Pacific Islander	3,003	3,378	3,565	3,607	3,760	3,874	4,268	4,620
Black, non-Hispanic	2,166	2,483	2,752	2,935	3,250	3,516	4,156	4,476
Hispanic	1,993	2,060	2,522	2,804	2,947	3,055	3,624	3,783
White, non-Hispanic	33,258	34,482	35,259	33,715	33,067	34,184	36,897	38,684
Other or unknown	1,950	1,779	1,809	2,073	2,122	2,514	2,919	3,687
Temporary-visa holders	4,012	4,023	4,359	4,531	5,073	6,008	6,179	5,971

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