

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
All S&E graduate students	415,181	407,630	404,856	411,182	413,536	429,242	454,892	474,203
Science	311,957	306,482	304,818	309,491	309,424	319,749	335,224	346,828
Agricultural sciences	12,301	12,203	12,168	12,312	12,023	12,235	12,698	13,197
Biological sciences	57,749	56,705	56,695	56,959	56,282	57,639	61,133	64,684
Anatomy	878	856	785	749	795	735	951	908
Biochemistry	5,275	5,102	5,148	5,101	4,966	4,917	5,190	5,552
Biology	14,611	14,646	14,277	13,989	13,407	13,352	13,822	14,720
Biometry and epidemiology	3,005	2,896	3,514	3,704	3,615	3,817	4,071	4,439
Biophysics	833	748	737	710	751	877	953	1,032
Botany	2,213	2,082	2,042	1,974	1,904	1,921	1,973	1,901
Cell and molecular biology	4,207	4,300	4,379	4,637	4,820	4,911	5,375	5,722
Ecology	1,632	1,640	1,670	1,704	1,762	1,888	1,967	2,230
Entomology and parasitology	1,234	1,161	1,168	1,145	1,104	1,170	1,191	1,206
Genetics	1,741	1,776	1,727	1,783	1,712	1,841	1,909	2,073
Microbiology, immunology, and virology	4,912	4,805	4,773	4,815	4,814	4,798	5,208	5,256
Nutrition	4,918	4,604	4,486	4,508	4,413	4,429	4,539	4,695
Pathology	1,656	1,674	1,580	1,580	1,531	1,637	1,613	1,541
Pharmacology	2,663	2,597	2,730	2,757	2,963	3,140	3,234	3,357
Physiology	2,377	2,298	2,151	2,083	2,015	1,967	2,076	2,328
Zoology	1,808	1,627	1,586	1,523	1,445	1,411	1,349	1,301
Other	3,786	3,893	3,942	4,197	4,265	4,828	5,712	6,423
Computer sciences	34,626	35,991	38,027	42,478	47,350	52,196	55,269	53,678
Earth, atmospheric, and ocean sciences	15,183	14,548	14,258	14,083	13,941	13,841	14,240	14,655
Atmospheric	1,086	1,092	965	913	963	924	1,036	1,150
Earth	7,304	6,959	6,687	6,637	6,596	6,544	6,712	6,889
Ocean	2,615	2,479	2,562	2,624	2,668	2,585	2,618	2,695
Other	4,178	4,018	4,044	3,909	3,714	3,788	3,874	3,921
Mathematics and statistics	18,008	16,719	16,485	16,257	15,650	16,651	18,163	19,465
Mathematics/applied mathematics	14,948	14,027	13,827	13,521	12,823	13,569	14,702	15,569
Statistics	3,060	2,692	2,658	2,736	2,827	3,082	3,461	3,896
Physical sciences	32,333	31,105	30,575	30,691	30,385	31,038	32,341	34,298
Astronomy	874	778	820	832	888	916	990	1,080
Chemistry	19,334	18,774	18,482	18,416	18,105	18,366	19,045	20,049
Physics	11,728	11,147	10,809	10,869	10,841	11,248	11,701	12,555
Other	397	406	464	574	551	508	605	614
Psychology	53,122	53,126	52,557	51,727	50,466	50,467	51,165	52,025
Clinical	12,787	13,098	12,733	12,798	12,488	12,488	12,609	13,203
General	16,833	17,249	17,098	16,238	15,624	15,837	15,159	15,562
Nonclinical	23,502	22,779	22,726	22,691	22,354	22,142	23,397	23,260
Social sciences	88,635	86,085	84,053	84,984	83,327	85,682	90,215	94,826
Agricultural economics	2,117	2,043	1,995	2,014	2,079	2,161	2,187	2,296
Anthropology (cultural and social)	7,773	7,560	7,577	7,633	7,626	7,491	7,481	7,806
Economics	12,080	11,097	10,701	10,562	10,748	11,408	12,009	12,307
Geography	4,331	4,287	4,326	4,250	4,036	4,304	4,383	4,654
History and philosophy of science	409	443	508	557	532	571	663	677
Linguistics	3,156	3,068	2,935	2,799	2,674	2,744	2,875	3,028
Political science and public administration	33,252	32,083	30,828	31,372	31,131	31,805	34,934	36,855
Sociology	9,425	9,413	9,058	8,966	8,652	8,812	8,946	9,127
Other	16,092	16,091	16,125	16,831	15,849	16,386	16,737	18,076
Engineering	103,224	101,148	100,038	101,691	104,112	109,493	119,668	127,375
Aerospace	3,208	3,083	3,137	3,349	3,407	3,451	3,685	4,048
Agricultural	1,012	941	925	934	899	907	912	1,012
Biomedical	2,732	2,847	2,905	3,121	3,241	3,639	4,378	5,347
Chemical	7,408	7,288	7,093	6,883	7,056	6,913	7,414	7,516
Civil	18,528	17,193	16,517	16,226	16,451	16,665	17,713	18,838
Electrical	29,941	30,787	31,384	31,822	33,611	36,100	39,948	41,745
Engineering science/physics	1,751	1,647	1,701	1,627	1,632	1,798	2,121	2,240
Industrial/manufacturing	12,675	11,957	11,221	11,803	12,119	12,940	14,033	14,295

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	15,509	15,045	14,696	14,956	15,235	15,852	17,139	18,440
Metallurgical and materials	4,747	4,688	4,680	4,481	4,377	4,721	4,992	5,154
Mining	371	348	304	328	287	240	267	278
Nuclear	980	868	821	830	792	801	795	885
Petroleum	562	561	571	642	627	656	766	849
Other	3,800	3,895	4,083	4,689	4,378	4,810	5,505	6,728
U.S. citizens and permanent residents	317,075	308,668	302,879	301,254	290,711	294,711	309,280	327,332
Science	248,907	244,026	240,630	241,066	234,000	237,740	247,918	259,778
Agricultural sciences	9,283	9,414	9,514	9,774	9,612	9,722	10,085	10,619
Biological sciences	46,377	45,641	45,359	45,770	44,521	45,205	47,307	49,914
Anatomy	705	686	630	596	618	559	752	709
Biochemistry	3,750	3,691	3,695	3,646	3,377	3,332	3,459	3,655
Biology	12,641	12,609	12,197	11,997	11,353	11,159	11,377	12,182
Biometry and epidemiology	2,444	2,384	2,835	2,953	2,794	2,914	2,972	3,243
Biophysics	658	577	571	556	547	614	654	713
Botany	1,589	1,470	1,436	1,386	1,320	1,347	1,355	1,317
Cell and molecular biology	3,325	3,413	3,482	3,739	3,789	3,778	4,113	4,291
Ecology	1,470	1,471	1,498	1,530	1,576	1,694	1,749	1,968
Entomology and parasitology	916	871	877	843	824	895	908	920
Genetics	1,352	1,358	1,331	1,400	1,335	1,408	1,485	1,558
Microbiology, immunology, and virology	3,849	3,826	3,813	3,872	3,879	3,794	4,011	4,113
Nutrition	3,757	3,495	3,415	3,444	3,297	3,269	3,377	3,495
Pathology	1,326	1,380	1,292	1,285	1,230	1,344	1,314	1,210
Pharmacology	2,090	2,044	2,154	2,188	2,338	2,492	2,554	2,584
Physiology	1,929	1,875	1,713	1,629	1,569	1,536	1,622	1,807
Zoology	1,584	1,436	1,396	1,364	1,271	1,210	1,130	1,121
Other	2,992	3,055	3,024	3,342	3,404	3,860	4,475	5,028
Computer sciences	22,779	23,074	23,605	25,323	25,088	26,142	28,203	29,535
Earth, atmospheric, and ocean sciences	12,417	12,033	11,759	11,563	11,249	11,059	11,472	11,892
Atmospheric	803	801	710	639	659	639	730	882
Earth	5,847	5,666	5,443	5,413	5,294	5,189	5,333	5,456
Ocean	2,058	1,972	2,029	2,108	2,142	2,071	2,152	2,206
Other	3,709	3,594	3,577	3,403	3,154	3,160	3,257	3,348
Mathematics and statistics	12,247	11,175	11,064	10,330	9,593	10,167	11,139	12,144
Mathematics/applied mathematics	10,252	9,521	9,447	8,861	8,146	8,722	9,488	10,281
Statistics	1,995	1,654	1,617	1,469	1,447	1,445	1,651	1,863
Physical sciences	21,155	20,210	19,837	19,559	18,730	18,835	19,251	20,226
Astronomy	658	593	607	593	617	633	687	747
Chemistry	13,059	12,662	12,457	12,331	11,883	11,797	11,792	12,210
Physics	7,098	6,608	6,379	6,140	5,757	5,991	6,259	6,757
Other	340	347	394	495	473	414	513	512
Psychology	51,149	51,118	50,371	49,488	48,203	47,946	48,308	48,845
Clinical	12,483	12,763	12,370	12,402	12,098	12,060	12,014	12,583
General	16,170	16,582	16,403	15,518	14,812	14,903	14,177	14,379
Nonclinical	22,496	21,773	21,598	21,568	21,293	20,983	22,117	21,883
Social sciences	73,500	71,361	69,121	69,259	67,004	68,664	72,153	76,603
Agricultural economics	1,217	1,123	1,091	1,089	1,065	1,109	1,141	1,211
Anthropology (cultural and social)	7,083	6,858	6,838	6,810	6,797	6,722	6,634	6,957
Economics	6,559	5,714	5,461	5,029	4,941	5,124	5,389	5,733
Geography	3,849	3,763	3,767	3,652	3,408	3,579	3,636	3,876
History and philosophy of science	359	376	441	498	463	501	595	616
Linguistics	2,154	2,086	1,912	1,837	1,714	1,782	1,893	2,065
Political science and public administration	29,709	28,657	27,276	27,453	26,972	27,582	30,280	31,978
Sociology	8,294	8,252	7,949	7,790	7,397	7,505	7,625	7,782
Other	14,276	14,532	14,386	15,101	14,247	14,760	14,960	16,385
Engineering	68,168	64,642	62,249	60,188	56,711	56,971	61,362	67,554
Aerospace	1,935	1,765	1,720	1,817	1,894	1,805	1,999	2,361
Agricultural	540	521	519	526	513	497	495	531

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Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Biomedical	2,027	2,137	2,177	2,254	2,281	2,503	2,856	3,463
Chemical	4,521	4,424	4,208	3,869	3,726	3,418	3,701	3,752
Civil	13,263	12,090	11,555	10,801	10,306	10,072	10,553	11,439
Electrical	18,489	18,032	17,459	16,517	15,315	15,534	16,579	18,098
Engineering science/physics	1,258	1,199	1,149	1,093	955	1,054	1,239	1,230
Industrial/manufacturing	9,349	8,616	7,869	8,073	7,574	7,607	8,318	8,877
Mechanical	10,026	9,351	9,046	8,760	8,097	8,183	8,604	9,638
Metallurgical and materials	2,827	2,721	2,670	2,438	2,265	2,385	2,482	2,561
Mining	237	223	228	219	155	136	165	167
Nuclear	670	565	527	498	457	445	464	532
Petroleum	201	149	123	148	265	267	298	174
Other	2,825	2,849	2,999	3,175	2,908	3,065	3,609	4,731
White	238,032	228,007	220,667	216,750	205,569	206,027	213,162	222,118
Science	188,943	181,914	176,569	174,687	166,486	167,568	172,603	178,681
Agricultural sciences	7,983	7,990	8,093	8,383	8,152	8,147	8,486	8,740
Biological sciences	36,116	34,778	34,323	34,319	33,255	33,193	34,586	35,787
Anatomy	544	518	484	447	470	440	525	503
Biochemistry	2,784	2,669	2,742	2,665	2,532	2,373	2,509	2,515
Biology	9,683	9,463	9,122	8,929	8,447	8,309	8,468	8,894
Biometry and epidemiology	1,753	1,646	1,911	2,022	1,851	1,920	1,964	2,155
Biophysics	481	415	377	383	374	425	460	502
Botany	1,377	1,271	1,210	1,189	1,133	1,122	1,087	1,065
Cell and molecular biology	2,656	2,669	2,626	2,773	2,708	2,628	2,816	2,882
Ecology	1,299	1,279	1,325	1,363	1,360	1,466	1,507	1,631
Entomology and parasitology	791	749	778	757	733	764	794	800
Genetics	1,110	1,098	1,063	1,022	977	1,029	1,084	1,107
Microbiology, immunology, and virology	2,968	2,845	2,849	2,791	2,799	2,658	2,814	2,818
Nutrition	2,958	2,750	2,647	2,667	2,566	2,445	2,546	2,575
Pathology	1,060	1,044	961	926	906	962	937	834
Pharmacology	1,599	1,543	1,568	1,589	1,731	1,779	1,795	1,809
Physiology	1,390	1,283	1,220	1,119	1,064	1,035	1,086	1,210
Zoology	1,451	1,318	1,216	1,240	1,147	1,088	1,006	985
Other	2,212	2,218	2,224	2,437	2,457	2,750	3,188	3,502
Computer sciences	14,479	14,062	13,948	14,377	14,468	15,057	15,962	17,199
Earth, atmospheric, and ocean sciences	10,873	10,402	10,098	10,007	9,812	9,573	9,799	9,995
Atmospheric	709	657	601	552	557	547	623	713
Earth	5,212	4,989	4,776	4,796	4,720	4,603	4,639	4,691
Ocean	1,752	1,699	1,732	1,815	1,872	1,769	1,845	1,871
Other	3,200	3,057	2,989	2,844	2,663	2,654	2,692	2,720
Mathematics and statistics	9,196	8,351	8,097	7,659	6,955	7,386	7,923	8,415
Mathematics/applied mathematics	7,663	7,074	6,899	6,560	5,905	6,313	6,758	7,131
Statistics	1,533	1,277	1,198	1,099	1,050	1,073	1,165	1,284
Physical sciences	16,757	15,767	15,218	15,037	14,343	14,248	14,620	15,107
Astronomy	570	514	507	511	523	527	570	610
Chemistry	10,203	9,712	9,484	9,394	9,028	8,977	8,926	8,955
Physics	5,696	5,268	4,967	4,840	4,514	4,485	4,789	5,209
Other	288	273	260	292	278	259	335	333
Psychology	39,327	38,724	37,622	36,267	33,801	33,578	33,473	33,409
Clinical	9,898	9,848	9,353	9,212	8,662	8,361	8,185	8,532
General	12,377	12,667	12,302	11,548	10,582	10,639	10,200	10,042
Nonclinical	17,052	16,209	15,967	15,507	14,557	14,578	15,088	14,835
Social sciences	54,212	51,840	49,170	48,638	45,700	46,386	47,754	50,029
Agricultural economics	999	906	860	881	866	888	914	964
Anthropology (cultural and social)	5,867	5,641	5,549	5,440	5,311	5,190	5,153	5,311
Economics	4,935	4,201	3,828	3,595	3,448	3,504	3,567	3,780
Geography	3,321	3,266	3,211	3,131	2,906	3,048	3,068	3,200
History and philosophy of science	312	303	380	424	386	414	426	467
Linguistics	1,689	1,518	1,404	1,375	1,237	1,293	1,335	1,418

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Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Political science and public administration	20,955	19,984	18,526	18,317	17,401	17,635	18,785	19,504
Sociology	5,965	5,840	5,455	5,304	4,982	5,095	5,081	5,132
Other	10,169	10,181	9,957	10,171	9,163	9,319	9,425	10,253
Engineering	49,089	46,093	44,098	42,063	39,083	38,459	40,559	43,437
Aerospace	1,577	1,440	1,391	1,437	1,451	1,434	1,512	1,747
Agricultural	427	385	403	423	400	375	397	431
Biomedical	1,519	1,567	1,623	1,664	1,631	1,695	1,924	2,196
Chemical	3,394	3,365	3,124	2,805	2,627	2,417	2,565	2,554
Civil	9,983	9,208	8,665	8,088	7,759	7,492	7,707	8,316
Electrical	11,759	11,092	10,729	9,897	8,982	8,876	9,121	9,700
Engineering science/physics	942	881	843	787	673	717	893	928
Industrial/manufacturing	6,864	6,391	5,764	5,761	5,329	5,255	5,668	5,679
Mechanical	7,461	6,979	6,657	6,491	6,005	5,932	6,254	6,847
Metallurgical and materials	2,261	2,019	2,079	1,935	1,751	1,839	1,882	1,923
Mining	164	161	151	162	133	115	136	138
Nuclear	571	475	449	424	382	364	383	439
Petroleum	141	105	101	124	110	112	121	125
Other	2,026	2,025	2,119	2,065	1,850	1,836	1,996	2,414
Asian/Pacific Islander	25,929	26,012	26,726	27,570	25,058	26,584	29,352	32,450
Science	17,489	17,879	18,714	19,409	17,784	18,577	19,968	21,542
Agricultural sciences	291	309	315	310	250	262	286	326
Biological sciences	4,458	4,479	4,439	4,476	4,246	4,710	4,855	5,210
Anatomy	90	87	64	71	74	63	112	95
Biochemistry	611	566	527	541	423	477	412	466
Biology	875	882	817	793	721	725	731	836
Biometry and epidemiology	323	312	357	387	424	444	497	488
Biophysics	109	86	90	100	101	129	119	126
Botany	83	69	82	73	73	94	119	108
Cell and molecular biology	385	384	467	496	508	527	584	608
Ecology	37	48	50	45	42	47	43	59
Entomology and parasitology	40	41	37	19	24	46	27	29
Genetics	121	133	128	161	109	147	168	193
Microbiology, immunology, and virology	428	475	444	412	417	479	467	492
Nutrition	309	285	269	255	224	254	246	299
Pathology	138	171	166	180	155	181	188	183
Pharmacology	256	245	299	288	289	365	374	341
Physiology	318	333	265	276	268	288	309	331
Zoology	48	38	48	33	27	32	29	31
Other	287	324	329	346	367	412	430	525
Computer sciences	4,266	4,626	5,219	6,144	5,332	5,427	5,953	5,956
Earth, atmospheric, and ocean sciences	409	417	424	400	351	341	355	375
Atmospheric	52	56	55	41	41	26	31	67
Earth	145	166	153	144	132	139	149	126
Ocean	80	60	62	67	64	51	64	48
Other	132	135	154	148	114	125	111	134
Mathematics and statistics	1,223	1,051	1,174	1,002	948	985	1,184	1,446
Mathematics/applied mathematics	943	820	939	799	742	826	958	1,136
Statistics	280	231	235	203	206	159	226	310
Physical sciences	1,745	1,638	1,760	1,682	1,524	1,458	1,424	1,629
Astronomy	38	39	32	31	33	36	44	53
Chemistry	1,144	1,106	1,179	1,133	1,079	983	950	1,103
Physics	542	467	528	490	393	422	405	441
Other	21	26	21	28	19	17	25	32
Psychology	1,757	1,909	2,019	2,038	2,063	2,176	2,186	2,384
Clinical	494	557	553	579	569	578	554	623
General	585	610	703	675	712	739	674	793
Nonclinical	678	742	763	784	782	859	958	968

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Social sciences	3,340	3,450	3,364	3,357	3,070	3,218	3,725	4,216
Agricultural economics	53	49	54	53	30	29	39	39
Anthropology (cultural and social)	242	236	241	256	260	253	252	281
Economics	536	552	611	597	476	495	584	689
Geography	131	119	87	101	85	99	114	139
History and philosophy of science	18	21	22	20	20	21	28	29
Linguistics	181	212	187	148	106	154	183	215
Political science and public administration	1,155	1,264	1,180	1,163	1,206	1,225	1,489	1,622
Sociology	440	399	405	398	352	360	375	443
Other	584	598	577	621	535	582	661	759
Engineering	8,440	8,133	8,012	8,161	7,274	8,007	9,384	10,908
Aerospace	159	153	140	153	206	138	186	207
Agricultural	57	47	43	41	38	44	39	35
Biomedical	284	313	268	308	361	427	496	667
Chemical	482	512	469	486	501	494	566	556
Civil	1,254	1,050	1,104	931	744	771	855	1,024
Electrical	3,548	3,489	3,443	3,491	3,119	3,454	4,079	4,600
Engineering science/physics	153	202	187	170	103	123	161	152
Industrial/manufacturing	750	739	643	784	628	686	878	1,057
Mechanical	1,073	947	973	1,008	804	945	912	1,027
Metallurgical and materials	272	295	272	240	246	244	298	316
Mining	19	46	57	50	11	12	21	5
Nuclear	46	38	36	22	24	27	31	30
Petroleum	44	16	7	11	38	39	44	12
Other	299	286	370	466	451	603	818	1,220
Black	19,066	19,341	19,651	20,273	20,834	21,459	22,673	24,134
Science	16,167	16,462	16,830	17,308	17,857	18,544	19,599	20,922
Agricultural sciences	304	288	344	310	292	327	375	462
Biological sciences	1,974	2,105	2,141	2,218	2,241	2,351	2,480	2,762
Anatomy	26	35	30	31	31	20	38	37
Biochemistry	116	126	143	140	144	129	123	159
Biology	733	763	741	744	745	755	690	797
Biometry and epidemiology	144	154	174	188	164	176	201	229
Biophysics	18	17	18	17	17	17	18	17
Botany	30	30	28	22	16	24	29	26
Cell and molecular biology	94	115	126	114	135	143	160	172
Ecology	17	11	17	22	24	26	24	43
Entomology and parasitology	16	14	11	17	14	15	17	15
Genetics	33	43	51	55	57	56	60	75
Microbiology, immunology, and virology	171	194	172	186	191	178	218	245
Nutrition	179	196	213	218	208	231	252	246
Pathology	30	39	44	49	44	51	52	56
Pharmacology	105	114	136	151	147	169	173	185
Physiology	95	101	95	78	102	98	94	102
Zoology	16	11	14	16	13	10	16	11
Other	151	142	128	170	189	253	315	347
Computer sciences	1,276	1,300	1,355	1,485	1,512	1,709	1,898	1,945
Earth, atmospheric, and ocean sciences	219	203	202	213	220	227	266	270
Atmospheric	15	12	8	7	18	19	25	32
Earth	70	56	59	62	56	57	64	75
Ocean	33	26	25	28	28	31	36	35
Other	101	109	110	116	118	120	141	128
Mathematics and statistics	711	657	613	594	572	590	626	658
Mathematics/applied mathematics	639	607	561	543	509	525	546	564
Statistics	72	50	52	51	63	65	80	94
Physical sciences	986	952	913	903	918	875	893	939
Astronomy	14	11	9	9	9	12	10	9
Chemistry	679	667	635	633	650	631	636	663

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Physics	280	245	242	234	235	211	220	236
Other	13	29	27	27	24	21	27	31
Psychology	3,452	3,644	3,813	3,749	4,214	4,347	4,491	4,670
Clinical	652	736	725	710	756	740	786	857
General	1,443	1,544	1,507	1,405	1,463	1,489	1,532	1,559
Nonclinical	1,357	1,364	1,581	1,634	1,995	2,118	2,173	2,254
Social sciences	7,245	7,313	7,449	7,836	7,888	8,118	8,570	9,216
Agricultural economics	62	65	70	84	80	76	83	76
Anthropology (cultural and social)	251	254	266	291	270	274	248	275
Economics	371	324	317	291	317	314	322	363
Geography	109	83	108	92	86	114	112	141
History and philosophy of science	10	8	12	14	14	16	24	24
Linguistics	43	45	46	49	44	47	44	49
Political science and public administration	3,627	3,699	3,795	4,097	4,073	4,264	4,632	4,847
Sociology	1,019	1,053	1,114	1,061	984	1,001	1,032	1,080
Other	1,753	1,782	1,721	1,857	2,020	2,012	2,073	2,361
Engineering	2,899	2,879	2,821	2,965	2,977	2,915	3,074	3,212
Aerospace	47	35	34	52	57	45	51	59
Agricultural	17	21	27	23	23	26	24	27
Biomedical	84	83	86	104	114	122	144	159
Chemical	191	172	185	147	168	167	160	173
Civil	491	443	410	450	448	431	453	427
Electrical	778	874	874	886	830	812	846	812
Engineering science/physics	40	39	39	35	34	33	36	42
Industrial/manufacturing	535	489	465	541	557	591	616	685
Mechanical	417	428	412	375	396	354	358	382
Metallurgical and materials	104	112	75	92	94	107	112	111
Mining	0	0	1	1	5	1	1	2
Nuclear	16	21	13	15	17	13	11	12
Petroleum	2	8	5	5	7	4	6	11
Other	177	154	195	239	227	209	256	310
Hispanic	14,571	14,984	15,487	16,520	17,203	17,974	19,639	21,264
Science	11,635	12,172	12,587	13,596	14,185	14,791	16,178	17,288
Agricultural sciences	376	411	391	422	440	425	406	496
Biological sciences	1,849	1,987	2,053	2,185	2,183	2,338	2,590	2,849
Anatomy	25	15	15	26	24	21	43	42
Biochemistry	111	148	141	152	144	171	184	229
Biology	621	694	691	676	708	700	786	806
Biometry and epidemiology	118	135	159	164	167	149	170	196
Biophysics	14	17	14	17	14	20	20	28
Botany	53	47	54	47	36	42	47	38
Cell and molecular biology	114	113	122	153	157	181	213	225
Ecology	51	47	43	41	51	58	59	61
Entomology and parasitology	43	42	26	27	31	39	35	41
Genetics	39	44	53	59	57	68	67	61
Microbiology, immunology, and virology	164	170	187	201	196	220	243	286
Nutrition	163	155	172	186	152	162	167	201
Pathology	39	44	42	56	54	67	62	63
Pharmacology	76	85	88	92	112	116	127	134
Physiology	60	65	70	84	65	60	66	81
Zoology	38	30	36	31	28	29	28	32
Other	120	136	140	173	187	235	273	325
Computer sciences	700	723	754	865	863	894	1,004	1,099
Earth, atmospheric, and ocean sciences	374	399	370	400	355	397	413	484
Atmospheric	11	12	13	7	12	15	16	21
Earth	141	161	137	154	136	155	163	187
Ocean	106	116	108	132	113	137	131	158
Other	116	110	112	107	94	90	103	118

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Mathematics and statistics	425	427	454	447	460	482	542	604
Mathematics/applied mathematics	376	386	404	399	413	442	494	538
Statistics	49	41	50	48	47	40	48	66
Physical sciences	742	782	832	895	844	896	981	1,097
Astronomy	13	11	12	13	17	17	17	25
Chemistry	504	523	562	618	602	629	668	750
Physics	216	237	226	229	202	239	274	300
Other	9	11	32	35	23	11	22	22
Psychology	2,937	3,075	3,228	3,567	4,145	4,309	4,655	4,682
Clinical	842	925	1,119	1,182	1,403	1,492	1,588	1,631
General	890	909	911	931	969	1,006	926	985
Nonclinical	1,205	1,241	1,198	1,454	1,773	1,811	2,141	2,066
Social sciences	4,232	4,368	4,505	4,815	4,895	5,050	5,587	5,977
Agricultural economics	60	53	42	36	39	40	30	42
Anthropology (cultural and social)	336	338	344	327	368	383	409	435
Economics	310	277	276	247	238	306	332	369
Geography	90	91	98	111	103	107	123	150
History and philosophy of science	8	10	12	22	17	18	55	38
Linguistics	131	157	150	135	142	126	140	136
Political science and public administration	1,895	1,926	1,989	2,166	2,303	2,223	2,587	2,746
Sociology	518	581	602	641	607	608	655	664
Other	884	935	992	1,130	1,078	1,239	1,256	1,397
Engineering	2,936	2,812	2,900	2,924	3,018	3,183	3,461	3,976
Aerospace	62	71	76	80	80	71	92	119
Agricultural	19	17	15	16	22	27	22	14
Biomedical	60	56	80	86	92	102	114	155
Chemical	200	142	179	182	182	180	206	249
Civil	712	694	723	701	776	747	778	845
Electrical	793	810	812	769	717	825	941	1,093
Engineering science/physics	55	41	42	44	36	40	47	49
Industrial/manufacturing	421	396	364	426	439	469	477	561
Mechanical	383	360	389	388	366	407	450	537
Metallurgical and materials	89	86	84	75	84	80	79	97
Mining	4	7	4	2	2	3	3	3
Nuclear	20	22	22	28	30	34	26	31
Petroleum	13	10	6	5	59	63	57	13
Other	105	100	104	122	133	135	169	210
American Indian/Alaska Native	1,538	1,599	1,607	1,553	1,602	1,683	1,735	1,872
Science	1,304	1,360	1,371	1,311	1,394	1,456	1,491	1,568
Agricultural sciences	48	62	71	69	56	58	76	77
Biological sciences	200	197	191	186	189	205	211	236
Anatomy	4	3	3	3	4	3	3	4
Biochemistry	14	15	13	6	8	15	8	11
Biology	62	60	51	59	58	52	50	56
Biometry and epidemiology	9	11	7	7	11	11	14	16
Biophysics	0	1	1	1	1	1	2	1
Botany	4	3	3	4	3	9	10	10
Cell and molecular biology	8	9	11	9	13	11	12	14
Ecology	3	8	5	5	5	8	6	10
Entomology and parasitology	2	1	3	1	1	2	5	4
Genetics	4	6	4	4	6	7	7	12
Microbiology, immunology, and virology	14	10	18	15	21	13	24	14
Nutrition	14	12	16	15	13	15	14	13
Pathology	9	11	10	7	6	11	3	3
Pharmacology	8	5	6	14	8	10	15	19
Physiology	9	7	10	8	3	7	8	11
Zoology	18	12	9	7	7	8	6	8
Other	18	23	21	21	21	22	24	30

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Computer sciences	54	60	92	74	80	87	83	104
Earth, atmospheric, and ocean sciences	65	82	84	63	61	70	81	63
Atmospheric	3	2	2	2	3	4	4	5
Earth	31	38	36	26	27	32	36	26
Ocean	12	17	16	12	10	12	11	8
Other	19	25	30	23	21	22	30	24
Mathematics and statistics	41	43	34	30	25	38	24	25
Mathematics/applied mathematics	36	40	30	26	20	34	20	24
Statistics	5	3	4	4	5	4	4	1
Physical sciences	60	70	64	69	75	81	83	79
Astronomy	2	1	2	2	1	0	2	3
Chemistry	45	50	46	53	61	62	58	51
Physics	13	18	14	13	12	19	22	24
Other	0	1	2	1	1	0	1	1
Psychology	359	341	311	300	360	334	320	322
Clinical	117	111	112	93	104	92	101	107
General	118	109	93	96	124	104	87	92
Nonclinical	124	121	106	111	132	138	132	123
Social sciences	477	505	524	520	548	583	613	662
Agricultural economics	5	3	5	7	7	4	4	7
Anthropology (cultural and social)	106	103	119	105	109	102	89	99
Economics	16	16	16	13	17	21	28	31
Geography	18	15	13	14	20	28	26	22
History and philosophy of science	0	1	1	2	2	2	2	4
Linguistics	4	7	9	15	13	13	12	16
Political science and public administration	154	155	172	177	175	192	217	240
Sociology	63	76	68	66	68	66	68	65
Other	111	129	121	121	137	155	167	178
Engineering	234	239	236	242	208	227	244	304
Aerospace	5	3	7	8	8	8	11	15
Agricultural	1	8	4	1	3	3	2	2
Biomedical	6	6	7	8	5	5	6	7
Chemical	31	18	21	16	20	13	21	19
Civil	48	58	43	56	39	43	58	65
Electrical	50	46	33	47	37	45	39	63
Engineering science/physics	3	4	7	6	8	9	9	11
Industrial/manufacturing	22	23	34	39	41	43	34	52
Mechanical	35	35	25	33	27	32	32	42
Metallurgical and materials	8	11	33	10	5	8	11	8
Mining	1	0	0	0	1	0	3	4
Nuclear	3	3	2	2	1	0	2	1
Petroleum	1	2	2	0	1	1	1	0
Other	20	22	18	16	12	17	15	15
Other race/ethnicity	17,939	18,725	18,741	18,588	20,445	20,984	22,719	25,494
Science	13,369	14,239	14,559	14,755	16,294	16,804	18,079	19,777
Agricultural sciences	281	354	300	280	422	503	456	518
Biological sciences	1,780	2,095	2,212	2,386	2,407	2,408	2,585	3,070
Anatomy	16	28	34	18	15	12	31	28
Biochemistry	114	167	129	142	126	167	223	275
Biology	667	747	775	796	674	618	652	793
Biometry and epidemiology	97	126	227	185	177	214	126	159
Biophysics	36	41	71	38	40	22	35	39
Botany	42	50	59	51	59	56	63	70
Cell and molecular biology	68	123	130	194	268	288	328	390
Ecology	63	78	58	54	94	89	110	164
Entomology and parasitology	24	24	22	22	21	29	30	31
Genetics	45	34	32	99	129	101	99	110
Microbiology, immunology, and virology	104	132	143	267	255	246	245	258

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Nutrition	134	97	98	103	134	162	152	161
Pathology	50	71	69	67	65	72	72	71
Pharmacology	46	52	57	54	51	53	70	96
Physiology	57	86	53	64	67	48	59	72
Zoology	13	27	73	37	49	43	45	54
Other	204	212	182	195	183	188	245	299
Computer sciences	2,004	2,303	2,237	2,378	2,833	2,968	3,303	3,232
Earth, atmospheric, and ocean sciences	477	530	581	480	450	451	558	705
Atmospheric	13	62	31	30	28	28	31	44
Earth	248	256	282	231	223	203	282	351
Ocean	75	54	86	54	55	71	65	86
Other	141	158	182	165	144	149	180	224
Mathematics and statistics	651	646	692	598	633	686	840	996
Mathematics/applied mathematics	595	594	614	534	557	582	712	888
Statistics	56	52	78	64	76	104	128	108
Physical sciences	865	1,001	1,050	973	1,026	1,277	1,250	1,375
Astronomy	21	17	45	27	34	41	44	47
Chemistry	484	604	551	500	463	515	554	688
Physics	351	373	402	334	401	615	549	547
Other	9	7	52	112	128	106	103	93
Psychology	3,317	3,425	3,378	3,567	3,620	3,202	3,183	3,378
Clinical	480	586	508	626	604	797	800	833
General	757	743	887	863	962	926	758	908
Nonclinical	2,080	2,096	1,983	2,078	2,054	1,479	1,625	1,637
Social sciences	3,994	3,885	4,109	4,093	4,903	5,309	5,904	6,503
Agricultural economics	38	47	60	28	43	72	71	83
Anthropology (cultural and social)	281	286	319	391	479	520	483	556
Economics	391	344	413	286	445	484	556	501
Geography	180	189	250	203	208	183	193	224
History and philosophy of science	11	33	14	16	24	30	60	54
Linguistics	106	147	116	115	172	149	179	231
Political science and public administration	1,923	1,629	1,614	1,533	1,814	2,043	2,570	3,019
Sociology	289	303	305	320	404	375	414	398
Other	775	907	1,018	1,201	1,314	1,453	1,378	1,437
Engineering	4,570	4,486	4,182	3,833	4,151	4,180	4,640	5,717
Aerospace	85	63	72	87	92	109	147	214
Agricultural	19	43	27	22	27	22	11	22
Biomedical	74	112	113	84	78	152	172	279
Chemical	223	215	230	233	228	147	183	201
Civil	775	637	610	575	540	588	702	762
Electrical	1,561	1,721	1,568	1,427	1,630	1,522	1,553	1,830
Engineering science/physics	65	32	31	51	101	132	93	48
Industrial/manufacturing	757	578	599	522	580	563	645	843
Mechanical	657	602	590	465	499	513	598	803
Metallurgical and materials	93	198	127	86	85	107	100	106
Mining	49	9	15	4	3	5	1	15
Nuclear	14	6	5	7	3	7	11	19
Petroleum	0	8	2	3	50	48	69	13
Other	198	262	193	267	235	265	355	562
Temporary residents	98,106	98,962	101,977	109,928	122,825	134,531	145,612	146,871
Sciences	63,050	62,456	64,188	68,425	75,424	82,009	87,306	87,050
Agricultural sciences	3,018	2,789	2,654	2,538	2,411	2,513	2,613	2,578
Biological sciences	11,372	11,064	11,336	11,189	11,761	12,434	13,826	14,770
Anatomy	173	170	155	153	177	176	199	199
Biochemistry	1,525	1,411	1,453	1,455	1,589	1,585	1,731	1,897
Biology	1,970	2,037	2,080	1,992	2,054	2,193	2,445	2,538
Biometry and epidemiology	561	512	679	751	821	903	1,099	1,196
Biophysics	175	171	166	154	204	263	299	319

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1996–2003

Field, citizenship, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Botany	624	612	606	588	584	574	618	584
Cell and molecular biology	882	887	897	898	1,031	1,133	1,262	1,431
Ecology	162	169	172	174	186	194	218	262
Entomology and parasitology	318	290	291	302	280	275	283	286
Genetics	389	418	396	383	377	433	424	515
Microbiology, immunology, and virology	1,063	979	960	943	935	1,004	1,197	1,143
Nutrition	1,161	1,109	1,071	1,064	1,116	1,160	1,162	1,200
Pathology	330	294	288	295	301	293	299	331
Pharmacology	573	553	576	569	625	648	680	773
Physiology	448	423	438	454	446	431	454	521
Zoology	224	191	190	159	174	201	219	180
Other	794	838	918	855	861	968	1,237	1,395
Computer sciences	11,847	12,917	14,422	17,155	22,262	26,054	27,066	24,143
Earth, atmospheric, and ocean sciences	2,766	2,515	2,499	2,520	2,692	2,782	2,768	2,763
Atmospheric	283	291	255	274	304	285	306	268
Earth	1,457	1,293	1,244	1,224	1,302	1,355	1,379	1,433
Ocean	557	507	533	516	526	514	466	489
Other	469	424	467	506	560	628	617	573
Mathematics and statistics	5,761	5,544	5,421	5,927	6,057	6,484	7,024	7,321
Mathematics/applied mathematics	4,696	4,506	4,380	4,660	4,677	4,847	5,214	5,288
Statistics	1,065	1,038	1,041	1,267	1,380	1,637	1,810	2,033
Physical sciences	11,178	10,895	10,738	11,132	11,655	12,203	13,090	14,072
Astronomy	216	185	213	239	271	283	303	333
Chemistry	6,275	6,112	6,025	6,085	6,222	6,569	7,253	7,839
Physics	4,630	4,539	4,430	4,729	5,084	5,257	5,442	5,798
Other	57	59	70	79	78	94	92	102
Psychology	1,973	2,008	2,186	2,239	2,263	2,521	2,857	3,180
Clinical	304	335	363	396	390	428	595	620
General	663	667	695	720	812	934	982	1,183
Nonclinical	1,006	1,006	1,128	1,123	1,061	1,159	1,280	1,377
Social sciences	15,135	14,724	14,932	15,725	16,323	17,018	18,062	18,223
Agricultural economics	900	920	904	925	1,014	1,052	1,046	1,085
Anthropology (cultural and social)	690	702	739	823	829	769	847	849
Economics	5,521	5,383	5,240	5,533	5,807	6,284	6,620	6,574
Geography	482	524	559	598	628	725	747	778
History and philosophy of science	50	67	67	59	69	70	68	61
Linguistics	1,002	982	1,023	962	960	962	982	963
Political science and public administration	3,543	3,426	3,552	3,919	4,159	4,223	4,654	4,877
Sociology	1,131	1,161	1,109	1,176	1,255	1,307	1,321	1,345
Other	1,816	1,559	1,739	1,730	1,602	1,626	1,777	1,691
Engineering	35,056	36,506	37,789	41,503	47,401	52,522	58,306	59,821
Aerospace	1,273	1,318	1,417	1,532	1,513	1,646	1,686	1,687
Agricultural	472	420	406	408	386	410	417	481
Biomedical	705	710	728	867	960	1,136	1,522	1,884
Chemical	2,887	2,864	2,885	3,014	3,330	3,495	3,713	3,764
Civil	5,265	5,103	4,962	5,425	6,145	6,593	7,160	7,399
Electrical	11,452	12,755	13,925	15,305	18,296	20,566	23,369	23,647
Engineering science/physics	493	448	552	534	677	744	882	1,010
Industrial/manufacturing	3,326	3,341	3,352	3,730	4,545	5,333	5,715	5,418
Mechanical	5,483	5,694	5,650	6,196	7,138	7,669	8,535	8,802
Metallurgical and materials	1,920	1,967	2,010	2,043	2,112	2,336	2,510	2,593
Mining	134	125	76	109	132	104	102	111
Nuclear	310	303	294	332	335	356	331	353
Petroleum	361	412	448	494	362	389	468	675
Other	975	1,046	1,084	1,514	1,470	1,745	1,896	1,997

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1996–2003.