

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All S&E graduate students	407,630	404,856	411,182	413,536	429,242	454,892	474,694	476,331
Science	306,482	304,818	309,491	309,424	319,749	335,224	347,317	352,630
Agricultural sciences	12,203	12,168	12,312	12,023	12,235	12,698	13,197	13,445
Biological sciences	56,705	56,695	56,959	56,282	57,639	61,133	64,701	66,520
Anatomy	856	785	749	795	735	951	908	917
Biochemistry	5,102	5,148	5,101	4,966	4,917	5,190	5,552	5,612
Biology	14,646	14,277	13,989	13,407	13,352	13,822	14,770	15,438
Biometry and epidemiology	2,896	3,514	3,704	3,615	3,817	4,071	4,439	4,674
Biophysics	748	737	710	751	877	953	1,032	1,180
Botany	2,082	2,042	1,974	1,904	1,921	1,973	1,901	1,831
Cell and molecular biology	4,300	4,379	4,637	4,820	4,911	5,375	5,689	5,830
Ecology	1,640	1,670	1,704	1,762	1,888	1,967	2,230	2,185
Entomology and parasitology	1,161	1,168	1,145	1,104	1,170	1,191	1,206	1,241
Genetics	1,776	1,727	1,783	1,712	1,841	1,909	2,073	2,129
Microbiology, immunology, and virology	4,805	4,773	4,815	4,814	4,798	5,208	5,256	5,375
Nutrition	4,604	4,486	4,508	4,413	4,429	4,539	4,695	4,726
Pathology	1,674	1,580	1,580	1,531	1,637	1,613	1,541	1,540
Pharmacology	2,597	2,730	2,757	2,963	3,140	3,234	3,357	3,122
Physiology	2,298	2,151	2,083	2,015	1,967	2,076	2,328	2,441
Zoology	1,627	1,586	1,523	1,445	1,411	1,349	1,301	1,236
Other	3,893	3,942	4,197	4,265	4,828	5,712	6,423	7,043
Computer sciences	35,991	38,027	42,478	47,350	52,196	55,269	53,696	50,331
Earth, atmospheric, and ocean sciences	14,548	14,258	14,083	13,941	13,841	14,240	14,620	15,110
Atmospheric	1,092	965	913	963	924	1,036	1,150	1,086
Earth	6,959	6,687	6,637	6,596	6,544	6,712	6,889	7,337
Ocean	2,479	2,562	2,624	2,668	2,585	2,618	2,695	2,801
Other	4,018	4,044	3,909	3,714	3,788	3,874	3,886	3,886
Mathematics and statistics	16,719	16,485	16,257	15,650	16,651	18,163	19,465	19,873
Mathematics/applied mathematics	14,027	13,827	13,521	12,823	13,569	14,702	15,569	15,885
Statistics	2,692	2,658	2,736	2,827	3,082	3,461	3,896	3,988
Physical sciences	31,105	30,575	30,691	30,385	31,038	32,341	34,298	35,772
Astronomy	778	820	832	888	916	990	1,080	1,119
Chemistry	18,774	18,482	18,416	18,105	18,366	19,045	20,049	20,776
Physics	11,147	10,809	10,869	10,841	11,248	11,701	12,555	13,309
Other	406	464	574	551	508	605	614	568
Psychology	53,126	52,557	51,727	50,466	50,467	51,165	52,211	54,052
Clinical	13,098	12,733	12,798	12,488	12,488	12,609	13,118	13,671
General	17,249	17,098	16,238	15,624	15,837	15,159	15,580	16,276
Nonclinical	22,779	22,726	22,691	22,354	22,142	23,397	23,513	24,105
Social sciences	86,085	84,053	84,984	83,327	85,682	90,215	95,129	97,527
Agricultural economics	2,043	1,995	2,014	2,079	2,161	2,187	2,318	2,195
Anthropology (cultural and social)	7,560	7,577	7,633	7,626	7,491	7,481	7,789	7,826
Economics	11,097	10,701	10,562	10,748	11,408	12,009	12,316	12,250
Geography	4,287	4,326	4,250	4,036	4,304	4,383	4,721	4,809
History and philosophy of science	443	508	557	532	571	663	737	994
Linguistics	3,068	2,935	2,799	2,674	2,744	2,875	3,028	2,941
Political science and public administration	32,083	30,828	31,372	31,131	31,805	34,934	36,880	39,238
Sociology	9,413	9,058	8,966	8,652	8,812	8,946	9,127	8,895
Other	16,091	16,125	16,831	15,849	16,386	16,737	18,213	18,379
Engineering	101,148	100,038	101,691	104,112	109,493	119,668	127,377	123,701
Aerospace	3,083	3,137	3,349	3,407	3,451	3,685	4,048	4,089
Agricultural	941	925	934	899	907	912	1,012	998
Biomedical	2,847	2,905	3,121	3,241	3,639	4,378	5,347	5,892
Chemical	7,288	7,093	6,883	7,056	6,913	7,414	7,516	7,452
Civil	17,193	16,517	16,226	16,451	16,665	17,713	18,890	18,560
Electrical	30,787	31,384	31,822	33,611	36,100	39,948	41,763	38,995
Engineering science/physics	1,647	1,701	1,627	1,632	1,798	2,121	2,240	2,198
Industrial/manufacturing	11,957	11,221	11,803	12,119	12,940	14,033	14,313	13,852
Mechanical	15,045	14,696	14,956	15,235	15,852	17,139	18,393	17,946

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Metallurgical and materials	4,688	4,680	4,481	4,377	4,721	4,992	5,131	5,059
Mining	348	304	328	287	240	267	278	308
Nuclear	868	821	830	792	801	795	885	971
Petroleum	561	571	642	627	656	766	849	845
Other	3,895	4,083	4,689	4,378	4,810	5,505	6,712	6,536
U.S. citizens and permanent residents	308,668	302,879	301,254	290,711	294,711	309,280	327,358	333,231
Science	244,026	240,630	241,066	234,000	237,740	247,918	259,965	266,252
Agricultural sciences	9,414	9,514	9,774	9,612	9,722	10,085	10,601	10,765
Biological sciences	45,641	45,359	45,770	44,521	45,205	47,307	49,865	50,832
Anatomy	686	630	596	618	559	752	705	732
Biochemistry	3,691	3,695	3,646	3,377	3,332	3,459	3,655	3,634
Biology	12,609	12,197	11,997	11,353	11,159	11,377	12,201	12,698
Biometry and epidemiology	2,384	2,835	2,953	2,794	2,914	2,972	3,243	3,462
Biophysics	577	571	556	547	614	654	713	805
Botany	1,470	1,436	1,386	1,320	1,347	1,355	1,317	1,236
Cell and molecular biology	3,413	3,482	3,739	3,789	3,778	4,113	4,257	4,217
Ecology	1,471	1,498	1,530	1,576	1,694	1,749	1,958	1,913
Entomology and parasitology	871	877	843	824	895	908	920	938
Genetics	1,358	1,331	1,400	1,335	1,408	1,485	1,558	1,577
Microbiology, immunology, and virology	3,826	3,813	3,872	3,879	3,794	4,011	4,113	4,147
Nutrition	3,495	3,415	3,444	3,297	3,269	3,377	3,495	3,588
Pathology	1,380	1,292	1,285	1,230	1,344	1,314	1,210	1,224
Pharmacology	2,044	2,154	2,188	2,338	2,492	2,554	2,584	2,313
Physiology	1,875	1,713	1,629	1,569	1,536	1,622	1,807	1,910
Zoology	1,436	1,396	1,364	1,271	1,210	1,130	1,121	1,054
Other	3,055	3,024	3,342	3,404	3,860	4,475	5,008	5,384
Computer sciences	23,074	23,605	25,323	25,088	26,142	28,203	29,420	28,529
Earth, atmospheric, and ocean sciences	12,033	11,759	11,563	11,249	11,059	11,472	11,845	12,328
Atmospheric	801	710	639	659	639	730	869	819
Earth	5,666	5,443	5,413	5,294	5,189	5,333	5,456	5,890
Ocean	1,972	2,029	2,108	2,142	2,071	2,152	2,206	2,304
Other	3,594	3,577	3,403	3,154	3,160	3,257	3,314	3,315
Mathematics and statistics	11,175	11,064	10,330	9,593	10,167	11,139	12,057	12,519
Mathematics/applied mathematics	9,521	9,447	8,861	8,146	8,722	9,488	10,264	10,608
Statistics	1,654	1,617	1,469	1,447	1,445	1,651	1,793	1,911
Physical sciences	20,210	19,837	19,559	18,730	18,835	19,251	20,213	21,223
Astronomy	593	607	593	617	633	687	747	749
Chemistry	12,662	12,457	12,331	11,883	11,797	11,792	12,210	12,703
Physics	6,608	6,379	6,140	5,757	5,991	6,259	6,744	7,279
Other	347	394	495	473	414	513	512	492
Psychology	51,118	50,371	49,488	48,203	47,946	48,308	49,099	50,887
Clinical	12,763	12,370	12,402	12,098	12,060	12,014	12,499	13,239
General	16,582	16,403	15,518	14,812	14,903	14,177	14,472	14,902
Nonclinical	21,773	21,598	21,568	21,293	20,983	22,117	22,128	22,746
Social sciences	71,361	69,121	69,259	67,004	68,664	72,153	76,865	79,169
Agricultural economics	1,123	1,091	1,089	1,065	1,109	1,141	1,221	1,202
Anthropology (cultural and social)	6,858	6,838	6,810	6,797	6,722	6,634	6,967	6,964
Economics	5,714	5,461	5,029	4,941	5,124	5,389	5,699	5,712
Geography	3,763	3,767	3,652	3,408	3,579	3,636	3,937	4,020
History and philosophy of science	376	441	498	463	501	595	668	925
Linguistics	2,086	1,912	1,837	1,714	1,782	1,893	2,065	1,937
Political science and public administration	28,657	27,276	27,453	26,972	27,582	30,280	32,003	34,242
Sociology	8,252	7,949	7,790	7,397	7,505	7,625	7,782	7,626
Other	14,532	14,386	15,101	14,247	14,760	14,960	16,523	16,541
Engineering	64,642	62,249	60,188	56,711	56,971	61,362	67,393	66,979
Aerospace	1,765	1,720	1,817	1,894	1,805	1,999	2,361	2,401
Agricultural	521	519	526	513	497	495	531	522
Biomedical	2,137	2,177	2,254	2,281	2,503	2,856	3,434	3,832

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Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Chemical	4,424	4,208	3,869	3,726	3,418	3,701	3,753	3,830
Civil	12,090	11,555	10,801	10,306	10,072	10,553	11,458	11,454
Electrical	18,032	17,459	16,517	15,315	15,534	16,579	18,118	17,205
Engineering science/physics	1,199	1,149	1,093	955	1,054	1,239	1,230	1,187
Industrial/manufacturing	8,616	7,869	8,073	7,574	7,607	8,318	8,845	8,757
Mechanical	9,351	9,046	8,760	8,097	8,183	8,604	9,643	9,770
Metallurgical and materials	2,721	2,670	2,438	2,265	2,385	2,482	2,546	2,502
Mining	223	228	219	155	136	165	167	189
Nuclear	565	527	498	457	445	464	532	616
Petroleum	149	123	148	265	267	298	174	194
Other	2,849	2,999	3,175	2,908	3,065	3,609	4,601	4,520
White	228,007	220,667	216,750	205,569	206,027	213,162	222,709	224,982
Science	181,914	176,569	174,687	166,486	167,568	172,603	179,240	181,741
Agricultural sciences	7,990	8,093	8,383	8,152	8,147	8,486	8,799	8,936
Biological sciences	34,778	34,323	34,319	33,255	33,193	34,586	35,809	36,049
Anatomy	518	484	447	470	440	525	503	502
Biochemistry	2,669	2,742	2,665	2,532	2,373	2,509	2,515	2,587
Biology	9,463	9,122	8,929	8,447	8,309	8,468	8,921	9,139
Biometry and epidemiology	1,646	1,911	2,022	1,851	1,920	1,964	2,155	2,237
Biophysics	415	377	383	374	425	460	502	586
Botany	1,271	1,210	1,189	1,133	1,122	1,087	1,065	968
Cell and molecular biology	2,669	2,626	2,773	2,708	2,628	2,816	2,860	2,883
Ecology	1,279	1,325	1,363	1,360	1,466	1,507	1,634	1,597
Entomology and parasitology	749	778	757	733	764	794	800	816
Genetics	1,098	1,063	1,022	977	1,029	1,084	1,107	1,132
Microbiology, immunology, and virology	2,845	2,849	2,791	2,799	2,658	2,814	2,832	2,865
Nutrition	2,750	2,647	2,667	2,566	2,445	2,546	2,575	2,532
Pathology	1,044	961	926	906	962	937	834	863
Pharmacology	1,543	1,568	1,589	1,731	1,779	1,795	1,809	1,564
Physiology	1,283	1,220	1,119	1,064	1,035	1,086	1,210	1,243
Zoology	1,318	1,216	1,240	1,147	1,088	1,006	985	932
Other	2,218	2,224	2,437	2,457	2,750	3,188	3,502	3,603
Computer sciences	14,062	13,948	14,377	14,468	15,057	15,962	17,260	17,043
Earth, atmospheric, and ocean sciences	10,402	10,098	10,007	9,812	9,573	9,799	9,963	10,327
Atmospheric	657	601	552	557	547	623	713	663
Earth	4,989	4,776	4,796	4,720	4,603	4,639	4,691	5,096
Ocean	1,699	1,732	1,815	1,872	1,769	1,845	1,871	1,933
Other	3,057	2,989	2,844	2,663	2,654	2,692	2,688	2,635
Mathematics and statistics	8,351	8,097	7,659	6,955	7,386	7,923	8,414	8,832
Mathematics/applied mathematics	7,074	6,899	6,560	5,905	6,313	6,758	7,130	7,556
Statistics	1,277	1,198	1,099	1,050	1,073	1,165	1,284	1,276
Physical sciences	15,767	15,218	15,037	14,343	14,248	14,620	15,107	15,723
Astronomy	514	507	511	523	527	570	610	631
Chemistry	9,712	9,484	9,394	9,028	8,977	8,926	8,955	9,170
Physics	5,268	4,967	4,840	4,514	4,485	4,789	5,209	5,598
Other	273	260	292	278	259	335	333	324
Psychology	38,724	37,622	36,267	33,801	33,578	33,473	33,587	33,636
Clinical	9,848	9,353	9,212	8,662	8,361	8,185	8,472	8,636
General	12,667	12,302	11,548	10,582	10,639	10,200	10,115	10,154
Nonclinical	16,209	15,967	15,507	14,557	14,578	15,088	15,000	14,846
Social sciences	51,840	49,170	48,638	45,700	46,386	47,754	50,301	51,195
Agricultural economics	906	860	881	866	888	914	998	965
Anthropology (cultural and social)	5,641	5,549	5,440	5,311	5,190	5,153	5,316	5,253
Economics	4,201	3,828	3,595	3,448	3,504	3,567	3,780	3,845
Geography	3,266	3,211	3,131	2,906	3,048	3,068	3,255	3,315
History and philosophy of science	303	380	424	386	414	426	514	700
Linguistics	1,518	1,404	1,375	1,237	1,293	1,335	1,418	1,349
Political science and public administration	19,984	18,526	18,317	17,401	17,635	18,785	19,525	20,472

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Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	5,840	5,455	5,304	4,982	5,095	5,081	5,132	5,030
Other	10,181	9,957	10,171	9,163	9,319	9,425	10,363	10,266
Engineering	46,093	44,098	42,063	39,083	38,459	40,559	43,469	43,241
Aerospace	1,440	1,391	1,437	1,451	1,434	1,512	1,747	1,791
Agricultural	385	403	423	400	375	397	431	430
Biomedical	1,567	1,623	1,664	1,631	1,695	1,924	2,196	2,363
Chemical	3,365	3,124	2,805	2,627	2,417	2,565	2,554	2,666
Civil	9,208	8,665	8,088	7,759	7,492	7,707	8,333	8,264
Electrical	11,092	10,729	9,897	8,982	8,876	9,121	9,709	9,444
Engineering science/physics	881	843	787	673	717	893	928	865
Industrial/manufacturing	6,391	5,764	5,761	5,329	5,255	5,668	5,680	5,484
Mechanical	6,979	6,657	6,491	6,005	5,932	6,254	6,883	6,991
Metallurgical and materials	2,019	2,079	1,935	1,751	1,839	1,882	1,909	1,818
Mining	161	151	162	133	115	136	138	157
Nuclear	475	449	424	382	364	383	439	492
Petroleum	105	101	124	110	112	121	125	123
Other	2,025	2,119	2,065	1,850	1,836	1,996	2,397	2,353
Asian/Pacific Islander	26,012	26,726	27,570	25,058	26,584	29,352	31,921	31,508
Science	17,879	18,714	19,409	17,784	18,577	19,968	21,151	21,215
Agricultural sciences	309	315	310	250	262	286	316	340
Biological sciences	4,479	4,439	4,476	4,246	4,710	4,855	5,158	5,354
Anatomy	87	64	71	74	63	112	91	101
Biochemistry	566	527	541	423	477	412	466	449
Biology	882	817	793	721	725	731	819	907
Biometry and epidemiology	312	357	387	424	444	497	488	554
Biophysics	86	90	100	101	129	119	126	113
Botany	69	82	73	73	94	119	108	101
Cell and molecular biology	384	467	496	508	527	584	601	567
Ecology	48	50	45	42	47	43	55	51
Entomology and parasitology	41	37	19	24	46	27	29	34
Genetics	133	128	161	109	147	168	193	185
Microbiology, immunology, and virology	475	444	412	417	479	467	492	487
Nutrition	285	269	255	224	254	246	299	329
Pathology	171	166	180	155	181	188	183	181
Pharmacology	245	299	288	289	365	374	341	303
Physiology	333	265	276	268	288	309	331	379
Zoology	38	48	33	27	32	29	31	40
Other	324	329	346	367	412	430	505	573
Computer sciences	4,626	5,219	6,144	5,332	5,427	5,953	5,767	5,167
Earth, atmospheric, and ocean sciences	417	424	400	351	341	355	363	436
Atmospheric	56	55	41	41	26	31	54	59
Earth	166	153	144	132	139	149	126	149
Ocean	60	62	67	64	51	64	48	69
Other	135	154	148	114	125	111	135	159
Mathematics and statistics	1,051	1,174	1,002	948	985	1,184	1,364	1,332
Mathematics/applied mathematics	820	939	799	742	826	958	1,124	1,029
Statistics	231	235	203	206	159	226	240	303
Physical sciences	1,638	1,760	1,682	1,524	1,458	1,424	1,619	1,752
Astronomy	39	32	31	33	36	44	53	38
Chemistry	1,106	1,179	1,133	1,079	983	950	1,103	1,188
Physics	467	528	490	393	422	405	431	501
Other	26	21	28	19	17	25	32	25
Psychology	1,909	2,019	2,038	2,063	2,176	2,186	2,376	2,444
Clinical	557	553	579	569	578	554	610	671
General	610	703	675	712	739	674	793	813
Nonclinical	742	763	784	782	859	958	973	960

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Social sciences	3,450	3,364	3,357	3,070	3,218	3,725	4,188	4,390
Agricultural economics	49	54	53	30	29	39	39	45
Anthropology (cultural and social)	236	241	256	260	253	252	283	295
Economics	552	611	597	476	495	584	655	617
Geography	119	87	101	85	99	114	140	144
History and philosophy of science	21	22	20	20	21	28	29	48
Linguistics	212	187	148	106	154	183	215	175
Political science and public administration	1,264	1,180	1,163	1,206	1,225	1,489	1,622	1,802
Sociology	399	405	398	352	360	375	443	391
Other	598	577	621	535	582	661	762	873
Engineering	8,133	8,012	8,161	7,274	8,007	9,384	10,770	10,293
Aerospace	153	140	153	206	138	186	207	212
Agricultural	47	43	41	38	44	39	35	47
Biomedical	313	268	308	361	427	496	644	844
Chemical	512	469	486	501	494	566	557	528
Civil	1,050	1,104	931	744	771	855	1,024	1,022
Electrical	3,489	3,443	3,491	3,119	3,454	4,079	4,606	4,106
Engineering science/physics	202	187	170	103	123	161	152	163
Industrial/manufacturing	739	643	784	628	686	878	1,023	974
Mechanical	947	973	1,008	804	945	912	1,035	1,016
Metallurgical and materials	295	272	240	246	244	298	316	345
Mining	46	57	50	11	12	21	5	6
Nuclear	38	36	22	24	27	31	30	42
Petroleum	16	7	11	38	39	44	12	24
Other	286	370	466	451	603	818	1,124	964
Black	19,341	19,651	20,273	20,834	21,459	22,673	24,174	24,695
Science	16,462	16,830	17,308	17,857	18,544	19,599	20,962	21,283
Agricultural sciences	288	344	310	292	327	375	460	394
Biological sciences	2,105	2,141	2,218	2,241	2,351	2,480	2,757	2,886
Anatomy	35	30	31	31	20	38	37	51
Biochemistry	126	143	140	144	129	123	159	156
Biology	763	741	744	745	755	690	796	780
Biometry and epidemiology	154	174	188	164	176	201	229	263
Biophysics	17	18	17	17	17	18	17	23
Botany	30	28	22	16	24	29	26	18
Cell and molecular biology	115	126	114	135	143	160	168	186
Ecology	11	17	22	24	26	24	43	27
Entomology and parasitology	14	11	17	14	15	17	15	11
Genetics	43	51	55	57	56	60	75	68
Microbiology, immunology, and virology	194	172	186	191	178	218	245	244
Nutrition	196	213	218	208	231	252	246	293
Pathology	39	44	49	44	51	52	56	59
Pharmacology	114	136	151	147	169	173	185	192
Physiology	101	95	78	102	98	94	102	104
Zoology	11	14	16	13	10	16	11	11
Other	142	128	170	189	253	315	347	400
Computer sciences	1,300	1,355	1,485	1,512	1,709	1,898	1,951	1,818
Earth, atmospheric, and ocean sciences	203	202	213	220	227	266	270	260
Atmospheric	12	8	7	18	19	25	32	36
Earth	56	59	62	56	57	64	75	83
Ocean	26	25	28	28	31	36	35	30
Other	109	110	116	118	120	141	128	111
Mathematics and statistics	657	613	594	572	590	626	655	692
Mathematics/applied mathematics	607	561	543	509	525	546	561	579
Statistics	50	52	51	63	65	80	94	113
Physical sciences	952	913	903	918	875	893	939	995
Astronomy	11	9	9	9	12	10	9	10
Chemistry	667	635	633	650	631	636	663	713

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Physics	245	242	234	235	211	220	236	248
Other	29	27	27	24	21	27	31	24
Psychology	3,644	3,813	3,749	4,214	4,347	4,491	4,692	4,994
Clinical	736	725	710	756	740	786	853	894
General	1,544	1,507	1,405	1,463	1,489	1,532	1,573	1,828
Nonclinical	1,364	1,581	1,634	1,995	2,118	2,173	2,266	2,272
Social sciences	7,313	7,449	7,836	7,888	8,118	8,570	9,238	9,244
Agricultural economics	65	70	84	80	76	83	78	52
Anthropology (cultural and social)	254	266	291	270	274	248	276	271
Economics	324	317	291	317	314	322	363	381
Geography	83	108	92	86	114	112	141	150
History and philosophy of science	8	12	14	14	16	24	25	30
Linguistics	45	46	49	44	47	44	49	46
Political science and public administration	3,699	3,795	4,097	4,073	4,264	4,632	4,849	4,945
Sociology	1,053	1,114	1,061	984	1,001	1,032	1,080	1,056
Other	1,782	1,721	1,857	2,020	2,012	2,073	2,377	2,313
Engineering	2,879	2,821	2,965	2,977	2,915	3,074	3,212	3,412
Aerospace	35	34	52	57	45	51	59	68
Agricultural	21	27	23	23	26	24	27	22
Biomedical	83	86	104	114	122	144	159	195
Chemical	172	185	147	168	167	160	173	169
Civil	443	410	450	448	431	453	428	452
Electrical	874	874	886	830	812	846	812	861
Engineering science/physics	39	39	35	34	33	36	42	38
Industrial/manufacturing	489	465	541	557	591	616	685	714
Mechanical	428	412	375	396	354	358	382	369
Metallurgical and materials	112	75	92	94	107	112	110	105
Mining	0	1	1	5	1	1	2	5
Nuclear	21	13	15	17	13	11	12	20
Petroleum	8	5	5	7	4	6	11	21
Other	154	195	239	227	209	256	310	373
Hispanic	14,984	15,487	16,520	17,203	17,974	19,639	21,244	22,388
Science	12,172	12,587	13,596	14,185	14,791	16,178	17,265	18,187
Agricultural sciences	411	391	422	440	425	406	490	528
Biological sciences	1,987	2,053	2,185	2,183	2,338	2,590	2,830	3,033
Anatomy	15	15	26	24	21	43	42	39
Biochemistry	148	141	152	144	171	184	229	212
Biology	694	691	676	708	700	786	807	865
Biometry and epidemiology	135	159	164	167	149	170	196	195
Biophysics	17	14	17	14	20	20	28	30
Botany	47	54	47	36	42	47	38	63
Cell and molecular biology	113	122	153	157	181	213	225	243
Ecology	47	43	41	51	58	59	54	65
Entomology and parasitology	42	26	27	31	39	35	41	38
Genetics	44	53	59	57	68	67	61	62
Microbiology, immunology, and virology	170	187	201	196	220	243	272	295
Nutrition	155	172	186	152	162	167	201	245
Pathology	44	42	56	54	67	62	63	61
Pharmacology	85	88	92	112	116	127	134	144
Physiology	65	70	84	65	60	66	81	94
Zoology	30	36	31	28	29	28	32	28
Other	136	140	173	187	235	273	326	354
Computer sciences	723	754	865	863	894	1,004	1,101	1,160
Earth, atmospheric, and ocean sciences	399	370	400	355	397	413	484	537
Atmospheric	12	13	7	12	15	16	21	27
Earth	161	137	154	136	155	163	187	217
Ocean	116	108	132	113	137	131	158	161
Other	110	112	107	94	90	103	118	132

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Mathematics and statistics	427	454	447	460	482	542	604	618
Mathematics/applied mathematics	386	404	399	413	442	494	538	544
Statistics	41	50	48	47	40	48	66	74
Physical sciences	782	832	895	844	896	981	1,094	1,232
Astronomy	11	12	13	17	17	17	25	23
Chemistry	523	562	618	602	629	668	750	837
Physics	237	226	229	202	239	274	297	343
Other	11	32	35	23	11	22	22	29
Psychology	3,075	3,228	3,567	4,145	4,309	4,655	4,680	4,777
Clinical	925	1,119	1,182	1,403	1,492	1,588	1,624	1,737
General	909	911	931	969	1,006	926	987	1,035
Nonclinical	1,241	1,198	1,454	1,773	1,811	2,141	2,069	2,005
Social sciences	4,368	4,505	4,815	4,895	5,050	5,587	5,982	6,302
Agricultural economics	53	42	36	39	40	30	42	50
Anthropology (cultural and social)	338	344	327	368	383	409	436	455
Economics	277	276	247	238	306	332	369	358
Geography	91	98	111	103	107	123	151	143
History and philosophy of science	10	12	22	17	18	55	38	56
Linguistics	157	150	135	142	126	140	136	148
Political science and public administration	1,926	1,989	2,166	2,303	2,223	2,587	2,749	3,059
Sociology	581	602	641	607	608	655	664	635
Other	935	992	1,130	1,078	1,239	1,256	1,397	1,398
Engineering	2,812	2,900	2,924	3,018	3,183	3,461	3,979	4,201
Aerospace	71	76	80	80	71	92	119	118
Agricultural	17	15	16	22	27	22	14	8
Biomedical	56	80	86	92	102	114	155	181
Chemical	142	179	182	182	180	206	249	249
Civil	694	723	701	776	747	778	846	895
Electrical	810	812	769	717	825	941	1,094	1,097
Engineering science/physics	41	42	44	36	40	47	49	45
Industrial/manufacturing	396	364	426	439	469	477	562	629
Mechanical	360	389	388	366	407	450	537	606
Metallurgical and materials	86	84	75	84	80	79	98	98
Mining	7	4	2	2	3	3	3	10
Nuclear	22	22	28	30	34	26	31	28
Petroleum	10	6	5	59	63	57	13	15
Other	100	104	122	133	135	169	209	222
American Indian/Alaska Native	1,599	1,607	1,553	1,602	1,683	1,735	1,879	1,863
Science	1,360	1,371	1,311	1,394	1,456	1,491	1,575	1,584
Agricultural sciences	62	71	69	56	58	76	77	82
Biological sciences	197	191	186	189	205	211	236	249
Anatomy	3	3	3	4	3	3	4	2
Biochemistry	15	13	6	8	15	8	11	10
Biology	60	51	59	58	52	50	56	54
Biometry and epidemiology	11	7	7	11	11	14	16	15
Biophysics	1	1	1	1	1	2	1	7
Botany	3	3	4	3	9	10	10	10
Cell and molecular biology	9	11	9	13	11	12	14	18
Ecology	8	5	5	5	8	6	10	12
Entomology and parasitology	1	3	1	1	2	5	4	6
Genetics	6	4	4	6	7	7	12	13
Microbiology, immunology, and virology	10	18	15	21	13	24	14	18
Nutrition	12	16	15	13	15	14	13	9
Pathology	11	10	7	6	11	3	3	5
Pharmacology	5	6	14	8	10	15	19	21
Physiology	7	10	8	3	7	8	11	13
Zoology	12	9	7	7	8	6	8	7
Other	23	21	21	21	22	24	30	29

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Computer sciences	60	92	74	80	87	83	104	93
Earth, atmospheric, and ocean sciences	82	84	63	61	70	81	63	67
Atmospheric	2	2	2	3	4	4	5	4
Earth	38	36	26	27	32	36	26	33
Ocean	17	16	12	10	12	11	8	11
Other	25	30	23	21	22	30	24	19
Mathematics and statistics	43	34	30	25	38	24	25	39
Mathematics/applied mathematics	40	30	26	20	34	20	24	39
Statistics	3	4	4	5	4	4	1	0
Physical sciences	70	64	69	75	81	83	79	78
Astronomy	1	2	2	1	0	2	3	3
Chemistry	50	46	53	61	62	58	51	54
Physics	18	14	13	12	19	22	24	18
Other	1	2	1	1	0	1	1	3
Psychology	341	311	300	360	334	320	324	323
Clinical	111	112	93	104	92	101	107	92
General	109	93	96	124	104	87	93	104
Nonclinical	121	106	111	132	138	132	124	127
Social sciences	505	524	520	548	583	613	667	653
Agricultural economics	3	5	7	7	4	4	7	26
Anthropology (cultural and social)	103	119	105	109	102	89	99	105
Economics	16	16	13	17	21	28	31	30
Geography	15	13	14	20	28	26	22	24
History and philosophy of science	1	1	2	2	2	2	5	7
Linguistics	7	9	15	13	13	12	16	17
Political science and public administration	155	172	177	175	192	217	241	219
Sociology	76	68	66	68	66	68	65	56
Other	129	121	121	137	155	167	181	169
Engineering	239	236	242	208	227	244	304	279
Aerospace	3	7	8	8	8	11	15	16
Agricultural	8	4	1	3	3	2	2	1
Biomedical	6	7	8	5	5	6	7	16
Chemical	18	21	16	20	13	21	19	27
Civil	58	43	56	39	43	58	65	51
Electrical	46	33	47	37	45	39	63	54
Engineering science/physics	4	7	6	8	9	9	11	11
Industrial/manufacturing	23	34	39	41	43	34	52	48
Mechanical	35	25	33	27	32	32	42	24
Metallurgical and materials	11	33	10	5	8	11	8	6
Mining	0	0	0	1	0	3	4	1
Nuclear	3	2	2	1	0	2	1	3
Petroleum	2	2	0	1	1	1	0	0
Other	22	18	16	12	17	15	15	21
Other race/ethnicity	18,725	18,741	18,588	20,445	20,984	22,719	25,431	27,795
Science	14,239	14,559	14,755	16,294	16,804	18,079	19,772	22,242
Agricultural sciences	354	300	280	422	503	456	459	485
Biological sciences	2,095	2,212	2,386	2,407	2,408	2,585	3,075	3,261
Anatomy	28	34	18	15	12	31	28	37
Biochemistry	167	129	142	126	167	223	275	220
Biology	747	775	796	674	618	652	802	953
Biometry and epidemiology	126	227	185	177	214	126	159	198
Biophysics	41	71	38	40	22	35	39	46
Botany	50	59	51	59	56	63	70	76
Cell and molecular biology	123	130	194	268	288	328	389	320
Ecology	78	58	54	94	89	110	162	161
Entomology and parasitology	24	22	22	21	29	30	31	33
Genetics	34	32	99	129	101	99	110	117
Microbiology, immunology, and virology	132	143	267	255	246	245	258	238

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Nutrition	97	98	103	134	162	152	161	180
Pathology	71	69	67	65	72	72	71	55
Pharmacology	52	57	54	51	53	70	96	89
Physiology	86	53	64	67	48	59	72	77
Zoology	27	73	37	49	43	45	54	36
Other	212	182	195	183	188	245	298	425
Computer sciences	2,303	2,237	2,378	2,833	2,968	3,303	3,237	3,248
Earth, atmospheric, and ocean sciences	530	581	480	450	451	558	702	701
Atmospheric	62	31	30	28	28	31	44	30
Earth	256	282	231	223	203	282	351	312
Ocean	54	86	54	55	71	65	86	100
Other	158	182	165	144	149	180	221	259
Mathematics and statistics	646	692	598	633	686	840	995	1,006
Mathematics/applied mathematics	594	614	534	557	582	712	887	861
Statistics	52	78	64	76	104	128	108	145
Physical sciences	1,001	1,050	973	1,026	1,277	1,250	1,375	1,443
Astronomy	17	45	27	34	41	44	47	44
Chemistry	604	551	500	463	515	554	688	741
Physics	373	402	334	401	615	549	547	571
Other	7	52	112	128	106	103	93	87
Psychology	3,425	3,378	3,567	3,620	3,202	3,183	3,440	4,713
Clinical	586	508	626	604	797	800	833	1,209
General	743	887	863	962	926	758	911	968
Nonclinical	2,096	1,983	2,078	2,054	1,479	1,625	1,696	2,536
Social sciences	3,885	4,109	4,093	4,903	5,309	5,904	6,489	7,385
Agricultural economics	47	60	28	43	72	71	57	64
Anthropology (cultural and social)	286	319	391	479	520	483	557	585
Economics	344	413	286	445	484	556	501	481
Geography	189	250	203	208	183	193	228	244
History and philosophy of science	33	14	16	24	30	60	57	84
Linguistics	147	116	115	172	149	179	231	202
Political science and public administration	1,629	1,614	1,533	1,814	2,043	2,570	3,017	3,745
Sociology	303	305	320	404	375	414	398	458
Other	907	1,018	1,201	1,314	1,453	1,378	1,443	1,522
Engineering	4,486	4,182	3,833	4,151	4,180	4,640	5,659	5,553
Aerospace	63	72	87	92	109	147	214	196
Agricultural	43	27	22	27	22	11	22	14
Biomedical	112	113	84	78	152	172	273	233
Chemical	215	230	233	228	147	183	201	191
Civil	637	610	575	540	588	702	762	770
Electrical	1,721	1,568	1,427	1,630	1,522	1,553	1,834	1,643
Engineering science/physics	32	31	51	101	132	93	48	65
Industrial/manufacturing	578	599	522	580	563	645	843	908
Mechanical	602	590	465	499	513	598	764	764
Metallurgical and materials	198	127	86	85	107	100	105	130
Mining	9	15	4	3	5	1	15	10
Nuclear	6	5	7	3	7	11	19	31
Petroleum	8	2	3	50	48	69	13	11
Other	262	193	267	235	265	355	546	587
Temporary residents	98,962	101,977	109,928	122,825	134,531	145,612	147,336	143,100
Sciences	62,456	64,188	68,425	75,424	82,009	87,306	87,352	86,378
Agricultural sciences	2,789	2,654	2,538	2,411	2,513	2,613	2,596	2,680
Biological sciences	11,064	11,336	11,189	11,761	12,434	13,826	14,836	15,688
Anatomy	170	155	153	177	176	199	203	185
Biochemistry	1,411	1,453	1,455	1,589	1,585	1,731	1,897	1,978
Biology	2,037	2,080	1,992	2,054	2,193	2,445	2,569	2,740
Biometry and epidemiology	512	679	751	821	903	1,099	1,196	1,212
Biophysics	171	166	154	204	263	299	319	375

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Botany	612	606	588	584	574	618	584	595
Cell and molecular biology	887	897	898	1,031	1,133	1,262	1,432	1,613
Ecology	169	172	174	186	194	218	272	272
Entomology and parasitology	290	291	302	280	275	283	286	303
Genetics	418	396	383	377	433	424	515	552
Microbiology, immunology, and virology	979	960	943	935	1,004	1,197	1,143	1,228
Nutrition	1,109	1,071	1,064	1,116	1,160	1,162	1,200	1,138
Pathology	294	288	295	301	293	299	331	316
Pharmacology	553	576	569	625	648	680	773	809
Physiology	423	438	454	446	431	454	521	531
Zoology	191	190	159	174	201	219	180	182
Other	838	918	855	861	968	1,237	1,415	1,659
Computer sciences	12,917	14,422	17,155	22,262	26,054	27,066	24,276	21,802
Earth, atmospheric, and ocean sciences	2,515	2,499	2,520	2,692	2,782	2,768	2,775	2,782
Atmospheric	291	255	274	304	285	306	281	267
Earth	1,293	1,244	1,224	1,302	1,355	1,379	1,433	1,447
Ocean	507	533	516	526	514	466	489	497
Other	424	467	506	560	628	617	572	571
Mathematics and statistics	5,544	5,421	5,927	6,057	6,484	7,024	7,408	7,354
Mathematics/applied mathematics	4,506	4,380	4,660	4,677	4,847	5,214	5,305	5,277
Statistics	1,038	1,041	1,267	1,380	1,637	1,810	2,103	2,077
Physical sciences	10,895	10,738	11,132	11,655	12,203	13,090	14,085	14,549
Astronomy	185	213	239	271	283	303	333	370
Chemistry	6,112	6,025	6,085	6,222	6,569	7,253	7,839	8,073
Physics	4,539	4,430	4,729	5,084	5,257	5,442	5,811	6,030
Other	59	70	79	78	94	92	102	76
Psychology	2,008	2,186	2,239	2,263	2,521	2,857	3,112	3,165
Clinical	335	363	396	390	428	595	619	432
General	667	695	720	812	934	982	1,108	1,374
Nonclinical	1,006	1,128	1,123	1,061	1,159	1,280	1,385	1,359
Social sciences	14,724	14,932	15,725	16,323	17,018	18,062	18,264	18,358
Agricultural economics	920	904	925	1,014	1,052	1,046	1,097	993
Anthropology (cultural and social)	702	739	823	829	769	847	822	862
Economics	5,383	5,240	5,533	5,807	6,284	6,620	6,617	6,538
Geography	524	559	598	628	725	747	784	789
History and philosophy of science	67	67	59	69	70	68	69	69
Linguistics	982	1,023	962	960	962	982	963	1,004
Political science and public administration	3,426	3,552	3,919	4,159	4,223	4,654	4,877	4,996
Sociology	1,161	1,109	1,176	1,255	1,307	1,321	1,345	1,269
Other	1,559	1,739	1,730	1,602	1,626	1,777	1,690	1,838
Engineering	36,506	37,789	41,503	47,401	52,522	58,306	59,984	56,722
Aerospace	1,318	1,417	1,532	1,513	1,646	1,686	1,687	1,688
Agricultural	420	406	408	386	410	417	481	476
Biomedical	710	728	867	960	1,136	1,522	1,913	2,060
Chemical	2,864	2,885	3,014	3,330	3,495	3,713	3,763	3,622
Civil	5,103	4,962	5,425	6,145	6,593	7,160	7,432	7,106
Electrical	12,755	13,925	15,305	18,296	20,566	23,369	23,645	21,790
Engineering science/physics	448	552	534	677	744	882	1,010	1,011
Industrial/manufacturing	3,341	3,352	3,730	4,545	5,333	5,715	5,468	5,095
Mechanical	5,694	5,650	6,196	7,138	7,669	8,535	8,750	8,176
Metallurgical and materials	1,967	2,010	2,043	2,112	2,336	2,510	2,585	2,557
Mining	125	76	109	132	104	102	111	119
Nuclear	303	294	332	335	356	331	353	355
Petroleum	412	448	494	362	389	468	675	651
Other	1,046	1,084	1,514	1,470	1,745	1,896	2,111	2,016

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, 1997–2004.