

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
All S&E graduate students	404,856	411,182	413,536	429,242	454,847	474,694	476,195	478,782
Science	304,818	309,491	309,424	319,749	335,179	347,317	352,629	358,309
Agricultural sciences	12,168	12,312	12,023	12,235	12,698	13,197	13,445	13,123
Biological sciences	56,695	56,959	56,282	57,639	61,088	64,701	66,548	68,449
Anatomy	785	749	795	735	906	908	897	938
Biochemistry	5,148	5,101	4,966	4,917	5,190	5,552	5,612	5,814
Biology	14,277	13,989	13,407	13,352	13,822	14,770	15,458	15,668
Biometry and epidemiology	3,514	3,704	3,615	3,817	4,071	4,439	4,674	4,805
Biophysics	737	710	751	877	953	1,032	1,180	1,183
Botany	2,042	1,974	1,904	1,921	1,973	1,901	1,831	1,860
Cell and molecular biology	4,379	4,637	4,820	4,911	5,375	5,689	5,830	6,177
Ecology	1,670	1,704	1,762	1,888	1,967	2,230	2,185	2,165
Entomology and parasitology	1,168	1,145	1,104	1,170	1,191	1,206	1,241	1,126
Genetics	1,727	1,783	1,712	1,841	1,909	2,073	2,129	2,155
Microbiology, immunology, and virology	4,773	4,815	4,814	4,798	5,208	5,256	5,375	5,401
Nutrition	4,486	4,508	4,413	4,429	4,539	4,695	4,771	4,817
Pathology	1,580	1,580	1,531	1,637	1,613	1,541	1,540	1,576
Pharmacology	2,730	2,757	2,963	3,140	3,234	3,357	3,122	3,114
Physiology	2,151	2,083	2,015	1,967	2,076	2,328	2,409	2,399
Zoology	1,586	1,523	1,445	1,411	1,349	1,301	1,236	1,264
Other	3,942	4,197	4,265	4,828	5,712	6,423	7,058	7,987
Computer sciences	38,027	42,478	47,350	52,196	55,269	53,696	50,016	48,046
Earth, atmospheric, and ocean sciences	14,258	14,083	13,941	13,841	14,240	14,620	15,131	14,827
Atmospheric	965	913	963	924	1,036	1,150	1,086	1,146
Earth	6,687	6,637	6,596	6,544	6,712	6,889	7,358	7,212
Ocean	2,562	2,624	2,668	2,585	2,618	2,695	2,801	2,760
Other	4,044	3,909	3,714	3,788	3,874	3,886	3,886	3,709
Mathematics and statistics	16,485	16,257	15,650	16,651	18,163	19,465	19,931	20,210
Mathematics/applied mathematics	13,827	13,521	12,823	13,569	14,702	15,569	15,964	16,106
Statistics	2,658	2,736	2,827	3,082	3,461	3,896	3,967	4,104
Physical sciences	30,575	30,691	30,385	31,038	32,341	34,298	35,761	36,396
Astronomy	820	832	888	916	990	1,080	1,119	1,191
Chemistry	18,482	18,416	18,105	18,366	19,045	20,049	20,776	21,122
Physics	10,809	10,869	10,841	11,248	11,701	12,555	13,298	13,472
Other	464	574	551	508	605	614	568	611
Psychology	52,557	51,727	50,466	50,467	51,165	52,211	54,218	57,412
Clinical	12,733	12,798	12,488	12,488	12,609	13,118	13,771	14,283
General	17,098	16,238	15,624	15,837	15,159	15,580	16,276	16,786
Nonclinical	22,726	22,691	22,354	22,142	23,397	23,513	24,171	26,343
Social sciences	84,053	84,984	83,327	85,682	90,215	95,129	97,579	99,846
Agricultural economics	1,995	2,014	2,079	2,161	2,187	2,318	2,195	2,118
Anthropology (cultural and social)	7,577	7,633	7,626	7,491	7,481	7,789	7,826	7,706
Economics	10,701	10,562	10,748	11,408	12,009	12,316	12,318	11,805
Geography	4,326	4,250	4,036	4,304	4,383	4,721	4,809	4,772
History and philosophy of science	508	557	532	571	663	737	994	965
Linguistics	2,935	2,799	2,674	2,744	2,875	3,028	2,941	3,187
Political science and public administration	30,828	31,372	31,131	31,805	34,934	36,880	39,270	41,106
Sociology	9,058	8,966	8,652	8,812	8,946	9,127	8,874	9,037
Other	16,125	16,831	15,849	16,386	16,737	18,213	18,352	19,150
Engineering	100,038	101,691	104,112	109,493	119,668	127,377	123,566	120,473
Aerospace	3,137	3,349	3,407	3,451	3,685	4,048	4,089	4,170
Agricultural	975	986	943	947	952	1,058	1,041	1,059
Biomedical	2,855	3,069	3,197	3,599	4,338	5,301	5,807	6,067
Chemical	7,093	6,883	7,056	6,913	7,414	7,516	7,452	7,173
Civil	16,517	16,226	16,451	16,665	17,713	18,890	18,561	18,050
Electrical	31,384	31,822	33,611	36,100	39,948	41,763	38,995	37,444
Engineering science/physics	1,701	1,627	1,632	1,798	2,121	2,240	2,198	1,951
Industrial/manufacturing	11,221	11,803	12,119	12,940	14,033	14,313	13,852	13,614
Mechanical	14,696	14,956	15,235	15,852	17,139	18,393	17,852	17,387

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Metallurgical and materials	4,680	4,481	4,377	4,721	4,992	5,131	5,059	5,160
Mining	304	328	287	240	267	278	308	279
Nuclear	821	830	792	801	795	885	971	1,013
Petroleum	571	642	627	656	766	849	845	808
Other	4,083	4,689	4,378	4,810	5,505	6,712	6,536	6,298
U.S. citizens and permanent residents	302,879	301,254	290,711	294,711	309,235	327,358	332,624	339,550
Science	240,630	241,066	234,000	237,740	247,873	259,965	266,168	272,912
Agricultural sciences	9,514	9,774	9,612	9,722	10,085	10,601	10,750	10,474
Biological sciences	45,359	45,770	44,521	45,205	47,262	49,865	50,755	52,047
Anatomy	630	596	618	559	707	705	718	750
Biochemistry	3,695	3,646	3,377	3,332	3,459	3,655	3,615	3,725
Biology	12,197	11,997	11,353	11,159	11,377	12,201	12,678	12,674
Biometry and epidemiology	2,835	2,953	2,794	2,914	2,972	3,243	3,462	3,603
Biophysics	571	556	547	614	654	713	805	808
Botany	1,436	1,386	1,320	1,347	1,355	1,317	1,229	1,195
Cell and molecular biology	3,482	3,739	3,789	3,778	4,113	4,257	4,205	4,489
Ecology	1,498	1,530	1,576	1,694	1,749	1,958	1,913	1,916
Entomology and parasitology	877	843	824	895	908	920	938	844
Genetics	1,331	1,400	1,335	1,408	1,485	1,558	1,577	1,590
Microbiology, immunology, and virology	3,813	3,872	3,879	3,794	4,011	4,113	4,147	4,181
Nutrition	3,415	3,444	3,297	3,269	3,377	3,495	3,599	3,674
Pathology	1,292	1,285	1,230	1,344	1,314	1,210	1,224	1,236
Pharmacology	2,154	2,188	2,338	2,492	2,554	2,584	2,318	2,261
Physiology	1,713	1,629	1,569	1,536	1,622	1,807	1,890	1,933
Zoology	1,396	1,364	1,271	1,210	1,130	1,121	1,054	1,053
Other	3,024	3,342	3,404	3,860	4,475	5,008	5,383	6,115
Computer sciences	23,605	25,323	25,088	26,142	28,203	29,420	28,286	27,555
Earth, atmospheric, and ocean sciences	11,759	11,563	11,249	11,059	11,472	11,845	12,344	12,066
Atmospheric	710	639	659	639	730	869	819	863
Earth	5,443	5,413	5,294	5,189	5,333	5,456	5,906	5,785
Ocean	2,029	2,108	2,142	2,071	2,152	2,206	2,304	2,270
Other	3,577	3,403	3,154	3,160	3,257	3,314	3,315	3,148
Mathematics and statistics	11,064	10,330	9,593	10,167	11,139	12,057	12,560	12,814
Mathematics/applied mathematics	9,447	8,861	8,146	8,722	9,488	10,264	10,667	10,856
Statistics	1,617	1,469	1,447	1,445	1,651	1,793	1,893	1,958
Physical sciences	19,837	19,559	18,730	18,835	19,251	20,213	21,206	21,780
Astronomy	607	593	617	633	687	747	749	828
Chemistry	12,457	12,331	11,883	11,797	11,792	12,210	12,685	12,905
Physics	6,379	6,140	5,757	5,991	6,259	6,744	7,280	7,506
Other	394	495	473	414	513	512	492	541
Psychology	50,371	49,488	48,203	47,946	48,308	49,099	51,045	54,384
Clinical	12,370	12,402	12,098	12,060	12,014	12,499	13,337	13,794
General	16,403	15,518	14,812	14,903	14,177	14,472	14,901	15,635
Nonclinical	21,598	21,568	21,293	20,983	22,117	22,128	22,807	24,955
Social sciences	69,121	69,259	67,004	68,664	72,153	76,865	79,222	81,792
Agricultural economics	1,091	1,089	1,065	1,109	1,141	1,221	1,202	1,162
Anthropology (cultural and social)	6,838	6,810	6,797	6,722	6,634	6,967	6,966	6,861
Economics	5,461	5,029	4,941	5,124	5,389	5,699	5,736	5,428
Geography	3,767	3,652	3,408	3,579	3,636	3,937	4,019	3,991
History and philosophy of science	441	498	463	501	595	668	925	886
Linguistics	1,912	1,837	1,714	1,782	1,893	2,065	1,936	2,257
Political science and public administration	27,276	27,453	26,972	27,582	30,280	32,003	34,318	36,234
Sociology	7,949	7,790	7,397	7,505	7,625	7,782	7,606	7,738
Other	14,386	15,101	14,247	14,760	14,960	16,523	16,514	17,235
Engineering	62,249	60,188	56,711	56,971	61,362	67,393	66,456	66,638
Aerospace	1,720	1,817	1,894	1,805	1,999	2,361	2,401	2,528
Agricultural	556	562	546	530	529	568	556	538
Biomedical	2,140	2,218	2,248	2,470	2,822	3,397	3,675	3,928

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Chemical	4,208	3,869	3,726	3,418	3,701	3,753	3,768	3,690
Civil	11,555	10,801	10,306	10,072	10,553	11,458	11,436	11,417
Electrical	17,459	16,517	15,315	15,534	16,579	18,118	16,878	16,706
Engineering science/physics	1,149	1,093	955	1,054	1,239	1,230	1,187	1,096
Industrial/manufacturing	7,869	8,073	7,574	7,607	8,318	8,845	8,783	9,065
Mechanical	9,046	8,760	8,097	8,183	8,604	9,643	9,766	9,744
Metallurgical and materials	2,670	2,438	2,265	2,385	2,482	2,546	2,501	2,518
Mining	228	219	155	136	165	167	189	161
Nuclear	527	498	457	445	464	532	616	674
Petroleum	123	148	265	267	298	174	194	192
Other	2,999	3,175	2,908	3,065	3,609	4,601	4,506	4,381
White	220,667	216,750	205,569	206,027	213,144	222,709	225,039	226,137
Science	176,569	174,687	166,486	167,568	172,585	179,240	181,804	183,301
Agricultural sciences	8,093	8,383	8,152	8,147	8,486	8,799	8,936	8,662
Biological sciences	34,323	34,319	33,255	33,193	34,568	35,809	36,057	36,635
Anatomy	484	447	470	440	507	503	491	523
Biochemistry	2,742	2,665	2,532	2,373	2,509	2,515	2,573	2,582
Biology	9,122	8,929	8,447	8,309	8,468	8,921	9,152	9,120
Biometry and epidemiology	1,911	2,022	1,851	1,920	1,964	2,155	2,237	2,227
Biophysics	377	383	374	425	460	502	586	562
Botany	1,210	1,189	1,133	1,122	1,087	1,065	968	966
Cell and molecular biology	2,626	2,773	2,708	2,628	2,816	2,860	2,876	2,986
Ecology	1,325	1,363	1,360	1,466	1,507	1,634	1,597	1,593
Entomology and parasitology	778	757	733	764	794	800	816	713
Genetics	1,063	1,022	977	1,029	1,084	1,107	1,132	1,164
Microbiology, immunology, and virology	2,849	2,791	2,799	2,658	2,814	2,832	2,865	2,857
Nutrition	2,647	2,667	2,566	2,445	2,546	2,575	2,569	2,604
Pathology	961	926	906	962	937	834	863	879
Pharmacology	1,568	1,589	1,731	1,779	1,795	1,809	1,567	1,514
Physiology	1,220	1,119	1,064	1,035	1,086	1,210	1,218	1,264
Zoology	1,216	1,240	1,147	1,088	1,006	985	932	922
Other	2,224	2,437	2,457	2,750	3,188	3,502	3,615	4,159
Computer sciences	13,948	14,377	14,468	15,057	15,962	17,260	16,954	16,595
Earth, atmospheric, and ocean sciences	10,098	10,007	9,812	9,573	9,799	9,963	10,342	10,120
Atmospheric	601	552	557	547	623	713	663	697
Earth	4,776	4,796	4,720	4,603	4,639	4,691	5,111	5,010
Ocean	1,732	1,815	1,872	1,769	1,845	1,871	1,933	1,896
Other	2,989	2,844	2,663	2,654	2,692	2,688	2,635	2,517
Mathematics and statistics	8,097	7,659	6,955	7,386	7,923	8,414	8,859	8,915
Mathematics/applied mathematics	6,899	6,560	5,905	6,313	6,758	7,130	7,601	7,661
Statistics	1,198	1,099	1,050	1,073	1,165	1,284	1,258	1,254
Physical sciences	15,218	15,037	14,343	14,248	14,620	15,107	15,725	16,327
Astronomy	507	511	523	527	570	610	631	677
Chemistry	9,484	9,394	9,028	8,977	8,926	8,955	9,170	9,463
Physics	4,967	4,840	4,514	4,485	4,789	5,209	5,600	5,765
Other	260	292	278	259	335	333	324	422
Psychology	37,622	36,267	33,801	33,578	33,473	33,587	33,655	34,479
Clinical	9,353	9,212	8,662	8,361	8,185	8,472	8,636	8,618
General	12,302	11,548	10,582	10,639	10,200	10,115	10,154	10,707
Nonclinical	15,967	15,507	14,557	14,578	15,088	15,000	14,865	15,154
Social sciences	49,170	48,638	45,700	46,386	47,754	50,301	51,276	51,568
Agricultural economics	860	881	866	888	914	998	965	912
Anthropology (cultural and social)	5,549	5,440	5,311	5,190	5,153	5,316	5,258	5,077
Economics	3,828	3,595	3,448	3,504	3,567	3,780	3,854	3,713
Geography	3,211	3,131	2,906	3,048	3,068	3,255	3,314	3,255
History and philosophy of science	380	424	386	414	426	514	700	679
Linguistics	1,404	1,375	1,237	1,293	1,335	1,418	1,349	1,540
Political science and public administration	18,526	18,317	17,401	17,635	18,785	19,525	20,566	21,115

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Sociology	5,455	5,304	4,982	5,095	5,081	5,132	5,030	5,032
Other	9,957	10,171	9,163	9,319	9,425	10,363	10,240	10,245
Engineering	44,098	42,063	39,083	38,459	40,559	43,469	43,235	42,836
Aerospace	1,391	1,437	1,451	1,434	1,512	1,747	1,791	1,844
Agricultural	434	454	429	402	427	464	463	441
Biomedical	1,592	1,633	1,602	1,668	1,894	2,163	2,314	2,424
Chemical	3,124	2,805	2,627	2,417	2,565	2,554	2,666	2,561
Civil	8,665	8,088	7,759	7,492	7,707	8,333	8,270	8,139
Electrical	10,729	9,897	8,982	8,876	9,121	9,709	9,444	9,144
Engineering science/physics	843	787	673	717	893	928	865	793
Industrial/manufacturing	5,764	5,761	5,329	5,255	5,668	5,680	5,484	5,632
Mechanical	6,657	6,491	6,005	5,932	6,254	6,883	6,998	6,898
Metallurgical and materials	2,079	1,935	1,751	1,839	1,882	1,909	1,815	1,859
Mining	151	162	133	115	136	138	157	121
Nuclear	449	424	382	364	383	439	492	534
Petroleum	101	124	110	112	121	125	123	114
Other	2,119	2,065	1,850	1,836	1,996	2,397	2,353	2,332
Asian/Pacific Islander	26,726	27,570	25,058	26,584	29,332	31,921	30,881	30,852
Science	18,714	19,409	17,784	18,577	19,948	21,151	21,097	21,185
Agricultural sciences	315	310	250	262	286	316	329	300
Biological sciences	4,439	4,476	4,246	4,710	4,835	5,158	5,300	5,461
Anatomy	64	71	74	63	92	91	100	92
Biochemistry	527	541	423	477	412	466	444	458
Biology	817	793	721	725	731	819	905	877
Biometry and epidemiology	357	387	424	444	497	488	554	581
Biophysics	90	100	101	129	119	126	113	131
Botany	82	73	73	94	119	108	94	76
Cell and molecular biology	467	496	508	527	584	601	563	668
Ecology	50	45	42	47	43	55	51	53
Entomology and parasitology	37	19	24	46	27	29	34	28
Genetics	128	161	109	147	168	193	185	182
Microbiology, immunology, and virology	444	412	417	479	467	492	487	487
Nutrition	269	255	224	254	246	299	304	338
Pathology	166	180	155	181	188	183	181	159
Pharmacology	299	288	289	365	374	341	305	307
Physiology	265	276	268	288	309	331	383	372
Zoology	48	33	27	32	29	31	40	35
Other	329	346	367	412	430	505	557	617
Computer sciences	5,219	6,144	5,332	5,427	5,953	5,767	5,118	4,671
Earth, atmospheric, and ocean sciences	424	400	351	341	355	363	436	415
Atmospheric	55	41	41	26	31	54	59	58
Earth	153	144	132	139	149	126	149	136
Ocean	62	67	64	51	64	48	69	65
Other	154	148	114	125	111	135	159	156
Mathematics and statistics	1,174	1,002	948	985	1,184	1,364	1,335	1,419
Mathematics/applied mathematics	939	799	742	826	958	1,124	1,032	1,062
Statistics	235	203	206	159	226	240	303	357
Physical sciences	1,760	1,682	1,524	1,458	1,424	1,619	1,735	1,706
Astronomy	32	31	33	36	44	53	38	46
Chemistry	1,179	1,133	1,079	983	950	1,103	1,170	1,135
Physics	528	490	393	422	405	431	502	503
Other	21	28	19	17	25	32	25	22
Psychology	2,019	2,038	2,063	2,176	2,186	2,376	2,447	2,569
Clinical	553	579	569	578	554	610	671	672
General	703	675	712	739	674	793	813	869
Nonclinical	763	784	782	859	958	973	963	1,028

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Social sciences	3,364	3,357	3,070	3,218	3,725	4,188	4,397	4,644
Agricultural economics	54	53	30	29	39	39	45	43
Anthropology (cultural and social)	241	256	260	253	252	283	294	305
Economics	611	597	476	495	584	655	618	593
Geography	87	101	85	99	114	140	144	153
History and philosophy of science	22	20	20	21	28	29	48	36
Linguistics	187	148	106	154	183	215	176	247
Political science and public administration	1,180	1,163	1,206	1,225	1,489	1,622	1,803	1,975
Sociology	405	398	352	360	375	443	394	401
Other	577	621	535	582	661	762	875	891
Engineering	8,012	8,161	7,274	8,007	9,384	10,770	9,784	9,667
Aerospace	140	153	206	138	186	207	212	251
Agricultural	44	41	38	45	40	36	47	37
Biomedical	267	308	361	426	495	643	742	802
Chemical	469	486	501	494	566	557	468	508
Civil	1,104	931	744	771	855	1,024	997	1,006
Electrical	3,443	3,491	3,119	3,454	4,079	4,606	3,823	3,788
Engineering science/physics	187	170	103	123	161	152	163	143
Industrial/manufacturing	643	784	628	686	878	1,023	949	1,046
Mechanical	973	1,008	804	945	912	1,035	1,015	987
Metallurgical and materials	272	240	246	244	298	316	346	315
Mining	57	50	11	12	21	5	6	6
Nuclear	36	22	24	27	31	30	42	47
Petroleum	7	11	38	39	44	12	24	21
Other	370	466	451	603	818	1,124	950	710
Black	19,651	20,273	20,834	21,459	22,672	24,174	24,684	25,346
Science	16,830	17,308	17,857	18,544	19,598	20,962	21,285	21,876
Agricultural sciences	344	310	292	327	375	460	394	417
Biological sciences	2,141	2,218	2,241	2,351	2,479	2,757	2,893	2,980
Anatomy	30	31	31	20	37	37	50	48
Biochemistry	143	140	144	129	123	159	156	169
Biology	741	744	745	755	690	796	783	791
Biometry and epidemiology	174	188	164	176	201	229	263	282
Biophysics	18	17	17	17	18	17	23	24
Botany	28	22	16	24	29	26	18	17
Cell and molecular biology	126	114	135	143	160	168	186	176
Ecology	17	22	24	26	24	43	27	28
Entomology and parasitology	11	17	14	15	17	15	11	14
Genetics	51	55	57	56	60	75	68	70
Microbiology, immunology, and virology	172	186	191	178	218	245	244	255
Nutrition	213	218	208	231	252	246	294	270
Pathology	44	49	44	51	52	56	59	67
Pharmacology	136	151	147	169	173	185	193	184
Physiology	95	78	102	98	94	102	105	97
Zoology	14	16	13	10	16	11	11	12
Other	128	170	189	253	315	347	402	476
Computer sciences	1,355	1,485	1,512	1,709	1,898	1,951	1,802	1,761
Earth, atmospheric, and ocean sciences	202	213	220	227	266	270	261	262
Atmospheric	8	7	18	19	25	32	36	30
Earth	59	62	56	57	64	75	84	82
Ocean	25	28	28	31	36	35	30	37
Other	110	116	118	120	141	128	111	113
Mathematics and statistics	613	594	572	590	626	655	696	721
Mathematics/applied mathematics	561	543	509	525	546	561	583	617
Statistics	52	51	63	65	80	94	113	104
Physical sciences	913	903	918	875	893	939	995	1,008
Astronomy	9	9	9	12	10	9	10	10
Chemistry	635	633	650	631	636	663	713	694

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Physics	242	234	235	211	220	236	248	272
Other	27	27	24	21	27	31	24	32
Psychology	3,813	3,749	4,214	4,347	4,491	4,692	5,001	5,251
Clinical	725	710	756	740	786	853	894	874
General	1,507	1,405	1,463	1,489	1,532	1,573	1,828	1,682
Nonclinical	1,581	1,634	1,995	2,118	2,173	2,266	2,279	2,695
Social sciences	7,449	7,836	7,888	8,118	8,570	9,238	9,243	9,476
Agricultural economics	70	84	80	76	83	78	52	65
Anthropology (cultural and social)	266	291	270	274	248	276	272	277
Economics	317	291	317	314	322	363	382	319
Geography	108	92	86	114	112	141	150	160
History and philosophy of science	12	14	14	16	24	25	30	42
Linguistics	46	49	44	47	44	49	47	64
Political science and public administration	3,795	4,097	4,073	4,264	4,632	4,849	4,968	5,000
Sociology	1,114	1,061	984	1,001	1,032	1,080	1,032	1,086
Other	1,721	1,857	2,020	2,012	2,073	2,377	2,310	2,463
Engineering	2,821	2,965	2,977	2,915	3,074	3,212	3,399	3,470
Aerospace	34	52	57	45	51	59	68	73
Agricultural	32	27	26	30	27	30	23	25
Biomedical	81	100	111	118	141	156	191	192
Chemical	185	147	168	167	160	173	169	146
Civil	410	450	448	431	453	428	453	456
Electrical	874	886	830	812	846	812	850	843
Engineering science/physics	39	35	34	33	36	42	38	36
Industrial/manufacturing	465	541	557	591	616	685	714	764
Mechanical	412	375	396	354	358	382	369	411
Metallurgical and materials	75	92	94	107	112	110	105	102
Mining	1	1	5	1	1	2	5	3
Nuclear	13	15	17	13	11	12	20	21
Petroleum	5	5	7	4	6	11	21	31
Other	195	239	227	209	256	310	373	367
Hispanic	15,487	16,520	17,203	17,974	19,634	21,244	22,277	23,481
Science	12,587	13,596	14,185	14,791	16,173	17,265	18,113	19,391
Agricultural sciences	391	422	440	425	406	490	524	506
Biological sciences	2,053	2,185	2,183	2,338	2,585	2,830	2,998	3,146
Anatomy	15	26	24	21	38	42	38	41
Biochemistry	141	152	144	171	184	229	212	243
Biology	691	676	708	700	786	807	832	876
Biometry and epidemiology	159	164	167	149	170	196	195	193
Biophysics	14	17	14	20	20	28	30	37
Botany	54	47	36	42	47	38	63	49
Cell and molecular biology	122	153	157	181	213	225	242	280
Ecology	43	41	51	58	59	54	65	71
Entomology and parasitology	26	27	31	39	35	41	38	47
Genetics	53	59	57	68	67	61	62	63
Microbiology, immunology, and virology	187	201	196	220	243	272	295	307
Nutrition	172	186	152	162	167	201	245	204
Pathology	42	56	54	67	62	63	61	58
Pharmacology	88	92	112	116	127	134	143	145
Physiology	70	84	65	60	66	81	94	104
Zoology	36	31	28	29	28	32	28	36
Other	140	173	187	235	273	326	355	392
Computer sciences	754	865	863	894	1,004	1,101	1,143	1,202
Earth, atmospheric, and ocean sciences	370	400	355	397	413	484	537	507
Atmospheric	13	7	12	15	16	21	27	36
Earth	137	154	136	155	163	187	217	206
Ocean	108	132	113	137	131	158	161	150
Other	112	107	94	90	103	118	132	115

TABLE D-1. S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Mathematics and statistics	454	447	460	482	542	604	625	633
Mathematics/applied mathematics	404	399	413	442	494	538	551	565
Statistics	50	48	47	40	48	66	74	68
Physical sciences	832	895	844	896	981	1,094	1,232	1,240
Astronomy	12	13	17	17	17	25	23	27
Chemistry	562	618	602	629	668	750	837	821
Physics	226	229	202	239	274	297	343	358
Other	32	35	23	11	22	22	29	34
Psychology	3,228	3,567	4,145	4,309	4,655	4,680	4,800	5,119
Clinical	1,119	1,182	1,403	1,492	1,588	1,624	1,737	1,761
General	911	931	969	1,006	926	987	1,035	1,186
Nonclinical	1,198	1,454	1,773	1,811	2,141	2,069	2,028	2,172
Social sciences	4,505	4,815	4,895	5,050	5,587	5,982	6,254	7,038
Agricultural economics	42	36	39	40	30	42	50	54
Anthropology (cultural and social)	344	327	368	383	409	436	453	470
Economics	276	247	238	306	332	369	359	336
Geography	98	111	103	107	123	151	143	153
History and philosophy of science	12	22	17	18	55	38	56	60
Linguistics	150	135	142	126	140	136	148	163
Political science and public administration	1,989	2,166	2,303	2,223	2,587	2,749	3,012	3,370
Sociology	602	641	607	608	655	664	636	664
Other	992	1,130	1,078	1,239	1,256	1,397	1,397	1,768
Engineering	2,900	2,924	3,018	3,183	3,461	3,979	4,164	4,090
Aerospace	76	80	80	71	92	119	118	116
Agricultural	15	17	23	28	22	14	8	13
Biomedical	80	85	91	101	114	155	180	192
Chemical	179	182	182	180	206	249	249	240
Civil	723	701	776	747	778	846	898	896
Electrical	812	769	717	825	941	1,094	1,097	1,090
Engineering science/physics	42	44	36	40	47	49	45	43
Industrial/manufacturing	364	426	439	469	477	562	629	579
Mechanical	389	388	366	407	450	537	566	575
Metallurgical and materials	84	75	84	80	79	98	99	106
Mining	4	2	2	3	3	3	10	9
Nuclear	22	28	30	34	26	31	28	38
Petroleum	6	5	59	63	57	13	15	17
Other	104	122	133	135	169	209	222	176
American Indian/Alaska Native	1,607	1,553	1,602	1,683	1,734	1,879	1,863	2,124
Science	1,371	1,311	1,394	1,456	1,490	1,575	1,585	1,695
Agricultural sciences	71	69	56	58	76	77	82	76
Biological sciences	191	186	189	205	210	236	249	278
Anatomy	3	3	4	3	2	4	2	2
Biochemistry	13	6	8	15	8	11	10	15
Biology	51	59	58	52	50	56	54	68
Biometry and epidemiology	7	7	11	11	14	16	15	15
Biophysics	1	1	1	1	2	1	7	3
Botany	3	4	3	9	10	10	10	8
Cell and molecular biology	11	9	13	11	12	14	18	23
Ecology	5	5	5	8	6	10	12	11
Entomology and parasitology	3	1	1	2	5	4	6	9
Genetics	4	4	6	7	7	12	13	10
Microbiology, immunology, and virology	18	15	21	13	24	14	18	16
Nutrition	16	15	13	15	14	13	9	15
Pathology	10	7	6	11	3	3	5	8
Pharmacology	6	14	8	10	15	19	21	20
Physiology	10	8	3	7	8	11	13	12
Zoology	9	7	7	8	6	8	7	10
Other	21	21	21	22	24	30	29	33

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Computer sciences	92	74	80	87	83	104	92	100
Earth, atmospheric, and ocean sciences	84	63	61	70	81	63	67	61
Atmospheric	2	2	3	4	4	5	4	3
Earth	36	26	27	32	36	26	33	29
Ocean	16	12	10	12	11	8	11	11
Other	30	23	21	22	30	24	19	18
Mathematics and statistics	34	30	25	38	24	25	39	38
Mathematics/applied mathematics	30	26	20	34	20	24	39	34
Statistics	4	4	5	4	4	1	0	4
Physical sciences	64	69	75	81	83	79	78	82
Astronomy	2	2	1	0	2	3	3	5
Chemistry	46	53	61	62	58	51	54	53
Physics	14	13	12	19	22	24	18	20
Other	2	1	1	0	1	1	3	4
Psychology	311	300	360	334	320	324	324	334
Clinical	112	93	104	92	101	107	92	88
General	93	96	124	104	87	93	104	99
Nonclinical	106	111	132	138	132	124	128	147
Social sciences	524	520	548	583	613	667	654	726
Agricultural economics	5	7	7	4	4	7	26	23
Anthropology (cultural and social)	119	105	109	102	89	99	106	123
Economics	16	13	17	21	28	31	30	19
Geography	13	14	20	28	26	22	24	34
History and philosophy of science	1	2	2	2	2	5	7	5
Linguistics	9	15	13	13	12	16	17	17
Political science and public administration	172	177	175	192	217	241	219	251
Sociology	68	66	68	66	68	65	56	62
Other	121	121	137	155	167	181	169	192
Engineering	236	242	208	227	244	304	278	429
Aerospace	7	8	8	8	11	15	16	13
Agricultural	4	1	3	3	2	2	1	3
Biomedical	7	8	5	5	6	7	15	13
Chemical	21	16	20	13	21	19	27	24
Civil	43	56	39	43	58	65	51	52
Electrical	33	47	37	45	39	63	54	54
Engineering science/physics	7	6	8	9	9	11	11	9
Industrial/manufacturing	34	39	41	43	34	52	48	51
Mechanical	25	33	27	32	32	42	24	28
Metallurgical and materials	33	10	5	8	11	8	6	5
Mining	0	0	1	0	3	4	1	0
Nuclear	2	2	1	0	2	1	3	3
Petroleum	2	0	1	1	1	0	0	0
Other	18	16	12	17	15	15	21	174
Other race/ethnicity	18,741	18,588	20,445	20,984	22,719	25,431	27,880	31,610
Science	14,559	14,755	16,294	16,804	18,079	19,772	22,284	25,464
Agricultural sciences	300	280	422	503	456	459	485	513
Biological sciences	2,212	2,386	2,407	2,408	2,585	3,075	3,258	3,547
Anatomy	34	18	15	12	31	28	37	44
Biochemistry	129	142	126	167	223	275	220	258
Biology	775	796	674	618	652	802	952	942
Biometry and epidemiology	227	185	177	214	126	159	198	305
Biophysics	71	38	40	22	35	39	46	51
Botany	59	51	59	56	63	70	76	79
Cell and molecular biology	130	194	268	288	328	389	320	356
Ecology	58	54	94	89	110	162	161	160
Entomology and parasitology	22	22	21	29	30	31	33	33
Genetics	32	99	129	101	99	110	117	101
Microbiology, immunology, and virology	143	267	255	246	245	258	238	259



TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Nutrition	98	103	134	162	152	161	178	243
Pathology	69	67	65	72	72	71	55	65
Pharmacology	57	54	51	53	70	96	89	91
Physiology	53	64	67	48	59	72	77	84
Zoology	73	37	49	43	45	54	36	38
Other	182	195	183	188	245	298	425	438
Computer sciences	2,237	2,378	2,833	2,968	3,303	3,237	3,177	3,226
Earth, atmospheric, and ocean sciences	581	480	450	451	558	702	701	701
Atmospheric	31	30	28	28	31	44	30	39
Earth	282	231	223	203	282	351	312	322
Ocean	86	54	55	71	65	86	100	111
Other	182	165	144	149	180	221	259	229
Mathematics and statistics	692	598	633	686	840	995	1,006	1,088
Mathematics/applied mathematics	614	534	557	582	712	887	861	917
Statistics	78	64	76	104	128	108	145	171
Physical sciences	1,050	973	1,026	1,277	1,250	1,375	1,441	1,417
Astronomy	45	27	34	41	44	47	44	63
Chemistry	551	500	463	515	554	688	741	739
Physics	402	334	401	615	549	547	569	588
Other	52	112	128	106	103	93	87	27
Psychology	3,378	3,567	3,620	3,202	3,183	3,440	4,818	6,632
Clinical	508	626	604	797	800	833	1,307	1,781
General	887	863	962	926	758	911	967	1,092
Nonclinical	1,983	2,078	2,054	1,479	1,625	1,696	2,544	3,759
Social sciences	4,109	4,093	4,903	5,309	5,904	6,489	7,398	8,340
Agricultural economics	60	28	43	72	71	57	64	65
Anthropology (cultural and social)	319	391	479	520	483	557	583	609
Economics	413	286	445	484	556	501	493	448
Geography	250	203	208	183	193	228	244	236
History and philosophy of science	14	16	24	30	60	57	84	64
Linguistics	116	115	172	149	179	231	199	226
Political science and public administration	1,614	1,533	1,814	2,043	2,570	3,017	3,750	4,523
Sociology	305	320	404	375	414	398	458	493
Other	1,018	1,201	1,314	1,453	1,378	1,443	1,523	1,676
Engineering	4,182	3,833	4,151	4,180	4,640	5,659	5,596	6,146
Aerospace	72	87	92	109	147	214	196	231
Agricultural	27	22	27	22	11	22	14	19
Biomedical	113	84	78	152	172	273	233	305
Chemical	230	233	228	147	183	201	189	211
Civil	610	575	540	588	702	762	767	868
Electrical	1,568	1,427	1,630	1,522	1,553	1,834	1,610	1,787
Engineering science/physics	31	51	101	132	93	48	65	72
Industrial/manufacturing	599	522	580	563	645	843	959	993
Mechanical	590	465	499	513	598	764	794	845
Metallurgical and materials	127	86	85	107	100	105	130	131
Mining	15	4	3	5	1	15	10	22
Nuclear	5	7	3	7	11	19	31	31
Petroleum	2	3	50	48	69	13	11	9
Other	193	267	235	265	355	546	587	622
Temporary residents	101,977	109,928	122,825	134,531	145,612	147,336	143,571	139,232
Sciences	64,188	68,425	75,424	82,009	87,306	87,352	86,461	85,397
Agricultural sciences	2,654	2,538	2,411	2,513	2,613	2,596	2,695	2,649
Biological sciences	11,336	11,189	11,761	12,434	13,826	14,836	15,793	16,402
Anatomy	155	153	177	176	199	203	179	188
Biochemistry	1,453	1,455	1,589	1,585	1,731	1,897	1,997	2,089
Biology	2,080	1,992	2,054	2,193	2,445	2,569	2,780	2,994
Biometry and epidemiology	679	751	821	903	1,099	1,196	1,212	1,202
Biophysics	166	154	204	263	299	319	375	375

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1998–2005

Field, citizenship, and race/ethnicity	1998	1999	2000	2001	2002	2003	2004	2005
Botany	606	588	584	574	618	584	602	665
Cell and molecular biology	897	898	1,031	1,133	1,262	1,432	1,625	1,688
Ecology	172	174	186	194	218	272	272	249
Entomology and parasitology	291	302	280	275	283	286	303	282
Genetics	396	383	377	433	424	515	552	565
Microbiology, immunology, and virology	960	943	935	1,004	1,197	1,143	1,228	1,220
Nutrition	1,071	1,064	1,116	1,160	1,162	1,200	1,172	1,143
Pathology	288	295	301	293	299	331	316	340
Pharmacology	576	569	625	648	680	773	804	853
Physiology	438	454	446	431	454	521	519	466
Zoology	190	159	174	201	219	180	182	211
Other	918	855	861	968	1,237	1,415	1,675	1,872
Computer sciences	14,422	17,155	22,262	26,054	27,066	24,276	21,730	20,491
Earth, atmospheric, and ocean sciences	2,499	2,520	2,692	2,782	2,768	2,775	2,787	2,761
Atmospheric	255	274	304	285	306	281	267	283
Earth	1,244	1,224	1,302	1,355	1,379	1,433	1,452	1,427
Ocean	533	516	526	514	466	489	497	490
Other	467	506	560	628	617	572	571	561
Mathematics and statistics	5,421	5,927	6,057	6,484	7,024	7,408	7,371	7,396
Mathematics/applied mathematics	4,380	4,660	4,677	4,847	5,214	5,305	5,297	5,250
Statistics	1,041	1,267	1,380	1,637	1,810	2,103	2,074	2,146
Physical sciences	10,738	11,132	11,655	12,203	13,090	14,085	14,555	14,616
Astronomy	213	239	271	283	303	333	370	363
Chemistry	6,025	6,085	6,222	6,569	7,253	7,839	8,091	8,217
Physics	4,430	4,729	5,084	5,257	5,442	5,811	6,018	5,966
Other	70	79	78	94	92	102	76	70
Psychology	2,186	2,239	2,263	2,521	2,857	3,112	3,173	3,028
Clinical	363	396	390	428	595	619	434	489
General	695	720	812	934	982	1,108	1,375	1,151
Nonclinical	1,128	1,123	1,061	1,159	1,280	1,385	1,364	1,388
Social sciences	14,932	15,725	16,323	17,018	18,062	18,264	18,357	18,054
Agricultural economics	904	925	1,014	1,052	1,046	1,097	993	956
Anthropology (cultural and social)	739	823	829	769	847	822	860	845
Economics	5,240	5,533	5,807	6,284	6,620	6,617	6,582	6,377
Geography	559	598	628	725	747	784	790	781
History and philosophy of science	67	59	69	70	68	69	69	79
Linguistics	1,023	962	960	962	982	963	1,005	930
Political science and public administration	3,552	3,919	4,159	4,223	4,654	4,877	4,952	4,872
Sociology	1,109	1,176	1,255	1,307	1,321	1,345	1,268	1,299
Other	1,739	1,730	1,602	1,626	1,777	1,690	1,838	1,915
Engineering	37,789	41,503	47,401	52,522	58,306	59,984	57,110	53,835
Aerospace	1,417	1,532	1,513	1,646	1,686	1,687	1,688	1,642
Agricultural	419	424	397	417	423	490	485	521
Biomedical	715	851	949	1,129	1,516	1,904	2,132	2,139
Chemical	2,885	3,014	3,330	3,495	3,713	3,763	3,684	3,483
Civil	4,962	5,425	6,145	6,593	7,160	7,432	7,125	6,633
Electrical	13,925	15,305	18,296	20,566	23,369	23,645	22,117	20,738
Engineering science/physics	552	534	677	744	882	1,010	1,011	855
Industrial/manufacturing	3,352	3,730	4,545	5,333	5,715	5,468	5,069	4,549
Mechanical	5,650	6,196	7,138	7,669	8,535	8,750	8,086	7,643
Metallurgical and materials	2,010	2,043	2,112	2,336	2,510	2,585	2,558	2,642
Mining	76	109	132	104	102	111	119	118
Nuclear	294	332	335	356	331	353	355	339
Petroleum	448	494	362	389	468	675	651	616
Other	1,084	1,514	1,470	1,745	1,896	2,111	2,030	1,917

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, 1998–2005.