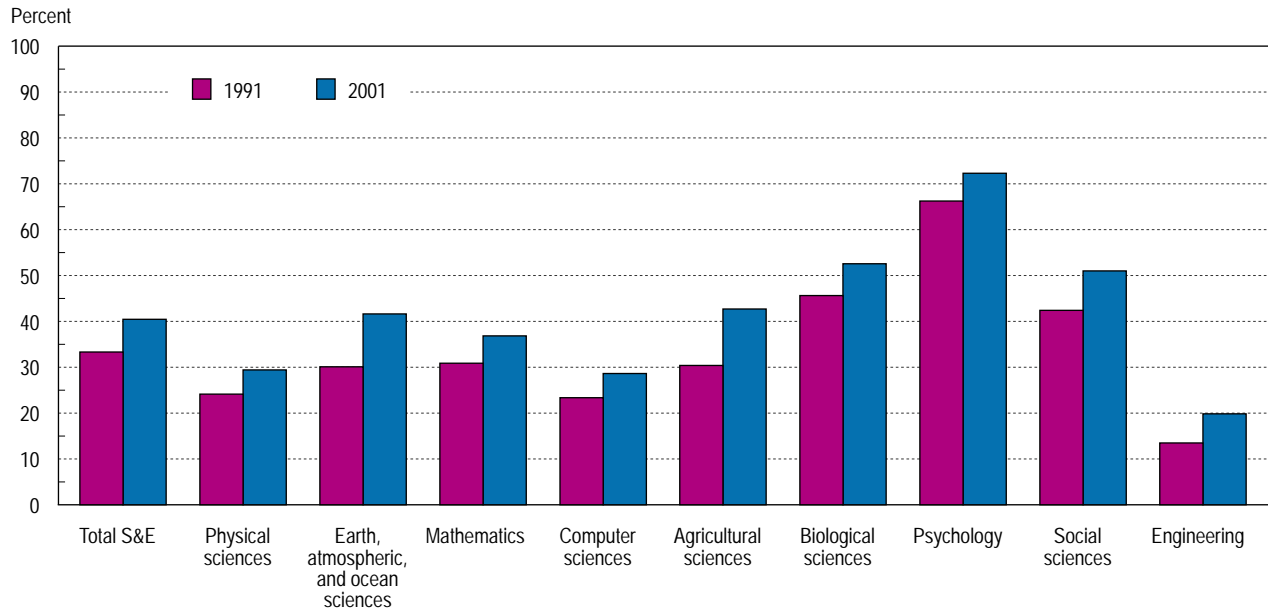


FIGURE D-1. Female share of S&E graduate students, by field: 1991 and 2001

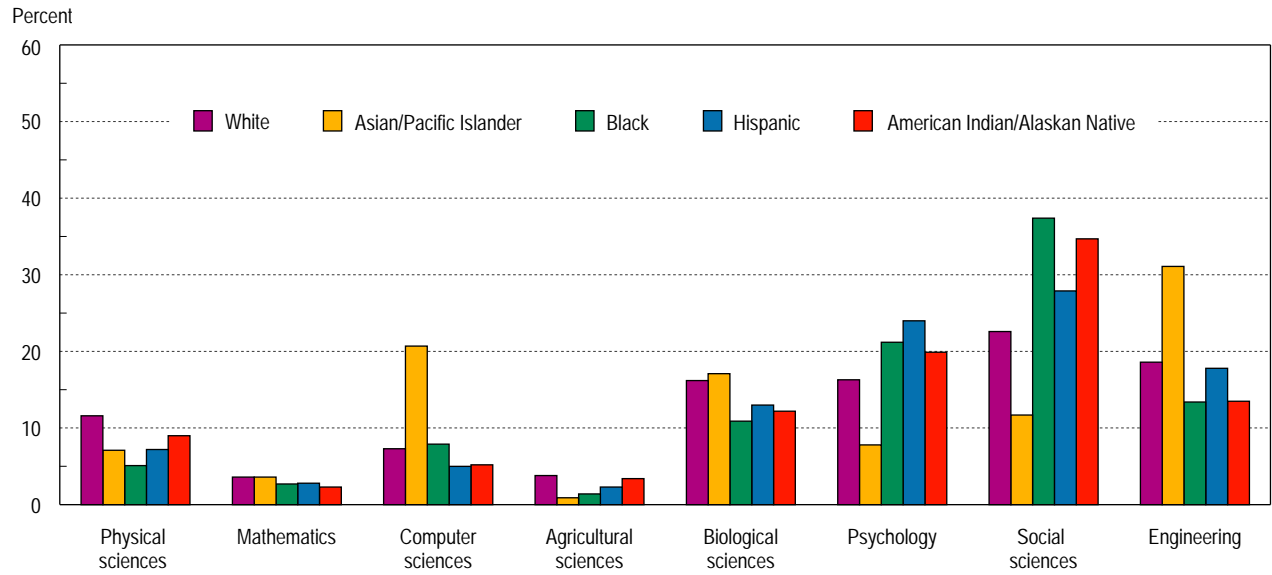


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1991 and 2001.

Females constituted a greater percentage of graduate students in S&E in 2001 (41 percent) than in 1991 (34 percent).

- Females accounted for more than half of all graduate students in some
- science fields: in 2001, for example, females made up 74 percent of the
- graduate students in psychology, 54 percent in biological sciences, and
- 52 percent in social sciences.
- Roughly 30-40 percent of the graduate students in most other science
- fields were female.
- Females accounted for 20 percent of graduate students in engineering
- and 30 percent of graduate students in computer sciences in 2001.

FIGURE D-2. Field distribution of S&E graduate students, by race/ethnicity: 2001



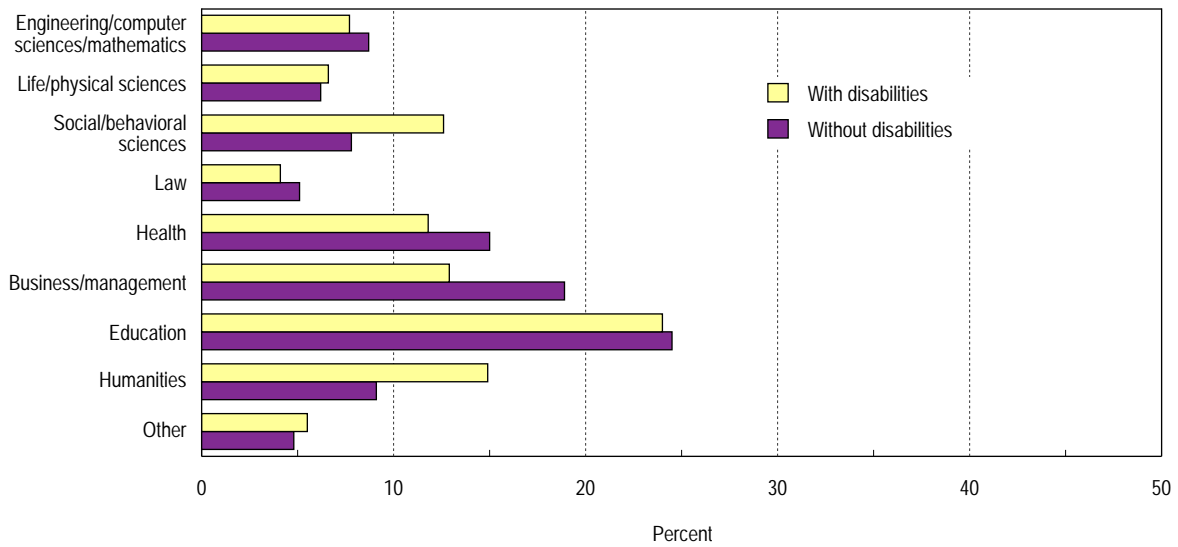
NOTES: Data are for U.S. citizens and permanent residents only. Physical sciences include earth, atmospheric, and ocean sciences.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

Asian/Pacific Islander S&E graduate students are distributed among S&E fields differently from graduate students of other racial/ethnic groups.

- In 2001, more than 50 percent of black, Hispanic, and American Indian/Alaskan Native graduate students and 39 percent of white students were in psychology or social sciences, compared to 20 percent of Asian/Pacific Islander students.
- Larger percentages of Asian/Pacific Islander graduate students than of other groups were in computer sciences, biological sciences, and engineering.

FIGURE D-3. Field distribution of graduate students, by disability status: 2000



SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2000.

Graduate students with disabilities differ somewhat from students without disabilities in their distribution across disciplines.

- Similar percentages of graduate students with and without disabilities were enrolled in graduate programs in three broad-field groups: engineering/computer sciences/mathematics; life/physical sciences; and education in 2000.
- A higher percentage of graduate students with disabilities than without disabilities were in social and behavioral sciences and in the humanities.

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
All S&E graduate students	431,114	422,438	415,148	407,597	404,809	411,257	414,683	429,492
Sciences	318,090	315,237	311,924	306,449	304,771	309,566	309,999	319,986
Agricultural sciences	12,242	12,422	11,974	11,852	11,844	11,988	11,684	11,911
Biological sciences	58,033	58,680	58,060	57,044	56,994	57,115	56,494	57,826
Anatomy	1,018	982	1,019	1,003	922	886	924	867
Biochemistry	5,615	5,562	5,275	5,102	5,148	5,101	4,963	4,917
Biology	14,208	14,280	14,611	14,646	14,277	13,989	13,410	13,355
Biometry and epidemiology	2,710	2,812	3,001	2,900	3,511	3,529	3,471	3,629
Biophysics	794	845	833	748	737	710	745	893
Botany	2,748	2,609	2,504	2,402	2,328	2,261	2,176	2,182
Cell and molecular biology	3,829	3,994	4,022	4,111	4,206	4,465	4,647	4,768
Ecology	1,566	1,680	1,615	1,619	1,655	1,687	1,744	1,848
Entomology and parasitology	1,263	1,241	1,234	1,161	1,168	1,145	1,104	1,170
Genetics	1,699	1,700	1,729	1,760	1,705	1,767	1,705	1,833
Microbiology, immunology, and virology	5,094	5,026	4,912	4,805	4,773	4,815	4,815	4,798
Nutrition	4,791	5,071	4,918	4,604	4,486	4,508	4,430	4,429
Pathology	1,707	1,670	1,656	1,674	1,580	1,580	1,529	1,649
Pharmacology	2,839	2,710	2,663	2,597	2,730	2,757	2,959	3,052
Physiology	2,378	2,540	2,377	2,298	2,151	2,083	2,007	1,967
Zoology	2,028	2,006	1,852	1,669	1,622	1,558	1,481	1,448
Other	3,746	3,952	3,839	3,945	3,995	4,274	4,384	5,021
Computer sciences	34,158	33,458	34,626	35,991	38,027	42,560	47,594	52,196
Earth, atmospheric, and ocean sciences	15,957	15,716	15,183	14,548	14,258	14,083	13,940	13,841
Atmospheric sciences	1,109	1,072	1,086	1,092	965	913	963	924
Earth	7,713	7,582	7,304	6,959	6,687	6,637	6,595	6,544
Ocean sciences	2,870	2,723	2,615	2,479	2,562	2,624	2,668	2,585
Other	4,265	4,339	4,178	4,018	4,044	3,909	3,714	3,788
Mathematics and statistics	19,573	18,504	18,008	16,719	16,485	16,257	15,646	16,663
Mathematics and applied mathematics	16,457	15,386	14,948	14,027	13,827	13,521	12,819	13,594
Statistics	3,116	3,118	3,060	2,692	2,658	2,736	2,827	3,069
Physical sciences	34,466	33,399	32,333	31,105	30,575	30,691	30,463	30,988
Astronomy	973	912	874	778	820	832	888	916
Chemistry	19,803	19,570	19,334	18,774	18,482	18,416	18,188	18,300
Physics	13,162	12,425	11,728	11,147	10,809	10,869	10,836	11,264
Other	528	492	397	406	464	574	551	508
Psychology	54,554	53,641	53,122	53,126	52,557	51,864	50,704	50,798
Clinical	12,684	12,519	12,787	13,098	12,733	12,798	12,488	12,473
General	18,356	17,636	16,832	17,246	17,095	16,235	15,725	16,022
Nonclinical	23,514	23,486	23,503	22,782	22,729	22,831	22,491	22,303
Social sciences	89,107	89,417	88,618	86,064	84,031	85,008	83,474	85,763
Agricultural economics	2,289	2,338	2,117	2,043	1,995	2,014	2,079	2,161
Anthropology (cultural and social)	7,665	7,693	7,773	7,560	7,577	7,633	7,633	7,491
Economics	12,913	12,673	12,080	11,097	10,701	10,562	10,778	11,340
Geography	4,502	4,371	4,331	4,287	4,326	4,250	4,044	4,276
History and philosophy of science	387	401	409	443	508	557	532	571
Linguistics	3,279	3,194	3,156	3,068	2,935	2,799	2,674	2,744
Political science and public administration	34,317	34,298	33,252	32,083	30,828	31,381	31,179	31,850
Sociology	9,498	9,564	9,425	9,413	9,058	8,966	8,689	8,775
Other	14,257	14,885	16,075	16,070	16,103	16,846	15,866	16,555
Engineering	113,024	107,201	103,224	101,148	100,038	101,691	104,684	109,506
Aerospace	3,715	3,343	3,208	3,083	3,137	3,349	3,407	3,485
Agricultural	1,061	1,037	1,012	941	925	934	899	907
Biomedical	2,750	2,732	2,732	2,847	2,905	3,121	3,241	3,593
Chemical	7,639	7,452	7,408	7,288	7,093	6,883	7,093	6,913
Civil	19,925	19,218	18,528	17,193	16,517	16,226	16,494	16,604
Electrical	33,020	30,721	29,702	30,548	31,129	31,382	33,318	35,745

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Engineering science/physics	2,089	1,955	1,751	1,647	1,701	1,627	1,632	1,798
Industrial/manufacturing	13,992	13,475	12,675	11,957	11,221	11,803	12,253	12,940
Mechanical	17,761	16,363	15,509	15,045	14,696	14,956	15,457	15,831
Metallurgical and materials	5,228	4,956	4,747	4,688	4,680	4,481	4,377	4,721
Mining	424	373	371	348	304	328	287	240
Nuclear	1,246	1,154	980	868	821	830	792	801
Petroleum	624	610	562	561	571	642	627	680
Other	3,550	3,812	4,039	4,134	4,338	5,129	4,807	5,248
U.S. citizen/permanent resident								
S&E	328,998	323,935	317,043	308,636	302,837	301,367	292,845	296,194
Sciences	252,980	252,218	248,875	243,994	240,588	241,179	234,917	238,598
Agricultural sciences	9,121	9,343	9,044	9,146	9,261	9,514	9,324	9,408
Biological sciences	45,244	46,490	46,600	45,898	45,591	45,897	44,730	45,441
Anatomy	789	738	807	792	732	692	714	658
Biochemistry	3,796	3,860	3,750	3,691	3,695	3,646	3,368	3,338
Biology	12,225	12,303	12,641	12,609	12,197	11,997	11,385	11,209
Biometry and epidemiology	2,109	2,234	2,438	2,389	2,834	2,819	2,685	2,778
Biophysics	583	637	658	577	571	556	541	632
Botany	1,926	1,827	1,797	1,710	1,655	1,614	1,549	1,570
Cell and molecular biology	2,941	3,148	3,179	3,265	3,344	3,608	3,665	3,691
Ecology	1,392	1,518	1,453	1,450	1,484	1,513	1,560	1,656
Entomology and parasitology	899	868	916	871	877	843	824	895
Genetics	1,337	1,347	1,342	1,342	1,311	1,388	1,329	1,417
Microbiology, immunology, and virology	3,790	3,841	3,849	3,826	3,813	3,872	3,876	3,794
Nutrition	3,539	3,817	3,757	3,495	3,415	3,444	3,319	3,269
Pathology	1,344	1,328	1,326	1,380	1,292	1,285	1,226	1,356
Pharmacology	2,186	2,163	2,090	2,044	2,154	2,188	2,335	2,404
Physiology	1,785	2,012	1,929	1,875	1,713	1,629	1,561	1,536
Zoology	1,727	1,761	1,628	1,478	1,432	1,399	1,287	1,224
Other	2,876	3,088	3,040	3,104	3,072	3,404	3,506	4,014
Computer sciences	23,096	22,663	22,779	23,074	23,605	25,405	25,454	26,447
Earth, atmospheric, and ocean sciences	12,693	12,769	12,417	12,033	11,759	11,563	11,248	11,080
Atmospheric sciences	844	806	803	801	710	639	659	650
Earth	5,964	6,039	5,847	5,666	5,443	5,413	5,293	5,199
Ocean sciences	2,148	2,102	2,058	1,972	2,029	2,108	2,142	2,071
Other	3,737	3,822	3,709	3,594	3,577	3,403	3,154	3,160
Mathematics and statistics	13,510	12,695	12,247	11,175	11,064	10,330	9,612	10,193
Mathematics and applied mathematics	11,501	10,694	10,252	9,521	9,447	8,861	8,165	8,747
Statistics	2,009	2,001	1,995	1,654	1,617	1,469	1,447	1,446
Physical sciences	22,757	21,990	21,155	20,210	19,837	19,559	18,900	18,995
Astronomy	711	680	658	593	607	593	617	633
Chemistry	13,391	13,156	13,059	12,662	12,457	12,331	12,032	11,914
Physics	8,215	7,745	7,098	6,608	6,379	6,140	5,778	6,034
Other	440	409	340	347	394	495	473	414
Psychology	52,211	51,554	51,149	51,118	50,371	49,625	48,444	48,285
Clinical	12,305	12,190	12,483	12,763	12,370	12,402	12,098	12,048
General	17,562	16,906	16,169	16,579	16,400	15,515	14,917	15,094
Nonclinical	22,344	22,458	22,497	21,776	21,601	21,708	21,429	21,143
Social sciences	74,348	74,714	73,484	71,340	69,100	69,286	67,205	68,749
Agricultural economics	1,349	1,339	1,217	1,123	1,091	1,089	1,065	1,109
Anthropology (cultural and social)	6,878	6,999	7,083	6,858	6,838	6,810	6,810	6,722
Economics	7,636	7,285	6,559	5,714	5,461	5,029	4,998	5,093
Geography	4,002	3,873	3,849	3,763	3,767	3,652	3,420	3,554
History and philosophy of science	331	355	359	376	441	498	463	501
Linguistics	2,267	2,197	2,154	2,086	1,912	1,837	1,714	1,782

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Political science and public administration	30,904	30,920	29,709	28,657	27,276	27,462	27,027	27,598
Sociology	8,163	8,356	8,294	8,252	7,949	7,790	7,443	7,469
Other	12,818	13,390	14,260	14,511	14,365	15,119	14,265	14,921
Engineering	76,018	71,717	68,168	64,642	62,249	60,188	57,928	57,596
Aerospace	2,476	2,157	1,935	1,765	1,720	1,817	1,894	1,881
Agricultural	567	554	540	521	519	526	513	497
Biomedical	1,928	1,995	2,027	2,137	2,177	2,254	2,281	2,459
Chemical	4,612	4,483	4,521	4,424	4,208	3,869	3,798	3,500
Civil	13,967	13,559	13,263	12,090	11,555	10,801	10,380	10,061
Electrical	21,612	19,504	18,332	17,903	17,328	16,282	15,520	15,772
Engineering science/physics	1,466	1,436	1,258	1,199	1,149	1,093	955	1,054
Industrial/manufacturing	10,404	10,123	9,349	8,616	7,869	8,073	7,815	7,617
Mechanical	11,940	10,905	10,026	9,351	9,046	8,760	8,551	8,290
Metallurgical and materials	3,254	3,029	2,827	2,721	2,670	2,438	2,265	2,385
Mining	232	202	237	223	228	219	155	136
Nuclear	834	774	670	565	527	498	457	445
Petroleum	240	240	201	149	123	148	265	267
Other	2,486	2,756	2,982	2,978	3,130	3,410	3,079	3,232
White								
S&E	255,633	245,831	238,001	227,975	220,631	216,785	206,163	205,757
Sciences	199,645	193,900	188,912	181,882	176,533	174,722	166,850	167,437
Agricultural sciences	8,021	8,040	7,800	7,797	7,892	8,176	7,917	7,894
Biological sciences	36,324	36,463	36,284	34,960	34,507	34,417	33,426	33,311
Anatomy	585	558	617	598	563	529	549	522
Biochemistry	2,963	2,896	2,784	2,669	2,742	2,665	2,530	2,373
Biology	9,598	9,369	9,683	9,463	9,122	8,929	8,454	8,281
Biometry and epidemiology	1,629	1,646	1,740	1,641	1,902	1,917	1,778	1,848
Biophysics	453	475	481	415	377	383	372	430
Botany	1,660	1,602	1,530	1,436	1,381	1,369	1,315	1,288
Cell and molecular biology	2,419	2,522	2,552	2,566	2,526	2,674	2,614	2,558
Ecology	1,255	1,349	1,285	1,259	1,311	1,346	1,344	1,428
Entomology and parasitology	783	771	791	749	778	757	733	764
Genetics	1,139	1,123	1,108	1,092	1,055	1,016	973	1,041
Microbiology, immunology, and virology	3,037	3,009	2,968	2,845	2,849	2,791	2,799	2,658
Nutrition	2,859	3,064	2,958	2,750	2,647	2,667	2,577	2,445
Pathology	1,049	1,071	1,060	1,044	961	926	905	968
Pharmacology	1,687	1,611	1,599	1,543	1,568	1,589	1,730	1,727
Physiology	1,358	1,461	1,390	1,283	1,220	1,119	1,058	1,035
Zoology	1,558	1,585	1,482	1,341	1,237	1,257	1,160	1,100
Other	2,292	2,351	2,256	2,266	2,268	2,483	2,535	2,845
Computer sciences	15,752	14,773	14,479	14,062	13,948	14,423	14,565	15,039
Earth, atmospheric, and ocean sciences	11,282	11,245	10,873	10,402	10,098	10,007	9,811	9,583
Atmospheric sciences	733	691	709	657	601	552	557	547
Earth	5,370	5,388	5,212	4,989	4,776	4,796	4,719	4,613
Ocean sciences	1,880	1,825	1,752	1,699	1,732	1,815	1,872	1,769
Other	3,299	3,341	3,200	3,057	2,989	2,844	2,663	2,654
Mathematics and statistics	10,490	9,654	9,196	8,351	8,097	7,659	6,966	7,386
Mathematics and applied mathematics	8,894	8,064	7,663	7,074	6,899	6,560	5,916	6,322
Statistics	1,596	1,590	1,533	1,277	1,198	1,099	1,050	1,064
Physical sciences	18,437	17,486	16,757	15,767	15,218	15,037	14,386	14,235
Astronomy	624	577	570	514	507	511	523	527
Chemistry	10,662	10,297	10,203	9,712	9,484	9,394	9,069	8,965
Physics	6,771	6,250	5,696	5,268	4,967	4,840	4,516	4,484
Other	380	362	288	273	260	292	278	259

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Psychology	42,062	40,146	39,327	38,724	37,622	36,350	33,960	33,558
Clinical	10,014	9,735	9,898	9,848	9,353	9,212	8,662	8,346
General	13,905	13,151	12,376	12,664	12,299	11,545	10,656	10,514
Nonclinical	18,143	17,260	17,053	16,212	15,970	15,593	14,642	14,698
Social sciences	57,277	56,093	54,196	51,819	49,151	48,653	45,819	46,431
Agricultural economics	1,128	1,075	999	906	860	881	866	888
Anthropology (cultural and social)	5,827	5,815	5,867	5,641	5,549	5,440	5,322	5,190
Economics	5,898	5,616	4,935	4,201	3,828	3,595	3,468	3,468
Geography	3,479	3,353	3,321	3,266	3,211	3,131	2,921	3,031
History and philosophy of science	308	317	312	303	380	424	386	414
Linguistics	1,770	1,688	1,689	1,518	1,404	1,375	1,237	1,293
Political science and public administration	23,296	22,413	20,955	19,984	18,526	18,325	17,441	17,728
Sociology	6,026	6,070	5,965	5,840	5,455	5,304	5,008	5,069
Other	9,545	9,746	10,153	10,160	9,938	10,178	9,170	9,350
Engineering	55,988	51,931	49,089	46,093	44,098	42,063	39,313	38,320
Aerospace	2,024	1,774	1,577	1,440	1,391	1,437	1,451	1,447
Agricultural	476	454	427	385	403	423	400	375
Biomedical	1,464	1,507	1,519	1,567	1,623	1,664	1,631	1,608
Chemical	3,532	3,429	3,394	3,365	3,124	2,805	2,649	2,417
Civil	11,029	10,434	9,983	9,208	8,665	8,088	7,799	7,462
Electrical	14,293	12,606	11,733	11,065	10,679	9,827	8,922	8,817
Engineering science/physics	1,172	1,102	942	881	843	787	673	717
Industrial/manufacturing	7,716	7,262	6,864	6,391	5,764	5,761	5,438	5,255
Mechanical	8,893	8,059	7,461	6,979	6,657	6,491	6,063	5,897
Metallurgical and materials	2,578	2,402	2,261	2,019	2,079	1,935	1,751	1,839
Mining	183	151	164	161	151	162	133	115
Nuclear	698	672	571	475	449	424	382	364
Petroleum	175	164	141	105	101	124	110	112
Other	1,755	1,915	2,052	2,052	2,169	2,135	1,911	1,895
Asian/Pacific Islander								
S&E	26,470	25,901	25,928	26,012	26,724	27,575	26,226	27,659
Sciences	16,683	16,883	17,488	17,879	18,712	19,414	18,142	19,057
Agricultural sciences	281	280	283	302	305	306	247	258
Biological sciences	3,949	4,299	4,465	4,486	4,447	4,468	4,238	4,719
Anatomy	104	91	107	103	77	79	85	71
Biochemistry	526	595	611	566	527	541	418	477
Biology	883	833	875	882	817	793	739	762
Biometry and epidemiology	209	254	324	314	357	375	410	419
Biophysics	99	111	109	86	90	100	99	132
Botany	107	91	90	76	92	77	76	99
Cell and molecular biology	296	345	357	353	441	472	491	520
Ecology	30	32	37	47	50	45	42	47
Entomology and parasitology	47	35	40	41	37	19	24	46
Genetics	103	112	119	131	126	161	109	147
Microbiology, immunology, and virology	356	404	428	475	444	412	413	479
Nutrition	246	281	309	285	269	255	230	254
Pathology	157	162	138	171	166	180	153	186
Pharmacology	251	289	256	245	299	288	288	335
Physiology	206	321	318	333	265	276	264	288
Zoology	59	60	59	53	61	49	28	33
Other	270	283	288	325	329	346	369	424
Computer sciences	4,046	4,043	4,266	4,626	5,219	6,156	5,558	5,716
Earth, atmospheric, and ocean sciences	449	419	409	417	424	400	351	352
Atmospheric sciences	66	69	52	56	55	41	41	37
Earth	180	151	145	166	153	144	132	139

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Ocean sciences	74	83	80	60	62	67	64	51
Other	129	116	132	135	154	148	114	125
Mathematics and statistics	1,208	1,121	1,223	1,051	1,174	1,002	963	997
Mathematics and applied mathematics	1,008	904	943	820	939	799	757	825
Statistics	200	217	280	231	235	203	206	172
Physical sciences	1,923	1,780	1,745	1,638	1,760	1,682	1,620	1,612
Astronomy	35	30	38	39	32	31	33	36
Chemistry	1,174	1,122	1,144	1,106	1,179	1,133	1,156	1,104
Physics	681	611	542	467	528	490	412	455
Other	33	17	21	26	21	28	19	17
Psychology	1,583	1,598	1,757	1,909	2,019	2,043	2,076	2,165
Clinical	481	470	494	557	553	579	569	574
General	542	539	585	610	703	675	722	729
Nonclinical	560	589	678	742	763	789	785	862
Social sciences	3,244	3,343	3,340	3,450	3,364	3,357	3,089	3,238
Agricultural economics	51	66	53	49	54	53	30	29
Anthropology (cultural and social)	192	208	242	236	241	256	259	253
Economics	658	580	536	552	611	597	495	502
Geography	108	127	131	119	87	101	81	97
History and philosophy of science	9	14	18	21	22	20	20	21
Linguistics	186	179	181	212	187	148	106	154
Political science and public administration	1,092	1,227	1,155	1,264	1,180	1,163	1,208	1,215
Sociology	412	413	440	399	405	398	355	359
Other	536	529	584	598	577	621	535	608
Engineering	9,787	9,018	8,440	8,133	8,012	8,161	8,084	8,602
Aerospace	223	177	159	153	140	153	206	203
Agricultural	50	43	57	47	43	41	38	44
Biomedical	247	281	284	313	268	308	361	423
Chemical	524	458	482	512	469	486	550	576
Civil	1,339	1,322	1,254	1,050	1,104	931	770	789
Electrical	4,098	3,707	3,543	3,487	3,435	3,488	3,418	3,728
Engineering science/physics	174	185	153	202	187	170	103	123
Industrial/manufacturing	882	855	750	739	643	784	734	696
Mechanical	1,421	1,225	1,073	947	973	1,008	1,121	1,072
Metallurgical and materials	346	311	272	295	272	240	246	244
Mining	30	34	19	46	57	50	11	12
Nuclear	75	49	46	38	36	22	24	27
Petroleum	31	42	44	16	7	11	38	39
Other	347	329	304	288	378	469	464	626
Black								
S&E	17,610	18,285	19,066	19,341	19,649	20,330	20,977	21,773
Sciences	14,826	15,428	16,167	16,462	16,828	17,365	17,975	18,852
Agricultural sciences	240	297	270	230	313	277	266	301
Biological sciences	1,709	1,882	2,008	2,163	2,171	2,244	2,264	2,369
Anatomy	40	39	34	41	38	35	35	26
Biochemistry	113	110	116	126	143	140	144	129
Biology	567	646	733	763	741	744	746	755
Biometry and epidemiology	108	138	145	160	181	185	159	171
Biophysics	17	21	18	17	18	17	16	17
Botany	52	35	64	88	59	55	42	48
Cell and molecular biology	66	74	85	107	116	110	129	137
Ecology	12	15	17	11	17	22	24	26
Entomology and parasitology	16	12	16	14	11	17	14	15
Genetics	45	36	32	37	43	50	55	54
Microbiology, immunology, and virology	129	150	171	194	172	186	192	178
Nutrition	150	192	179	196	213	218	213	231

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Pathology	39	28	30	39	44	49	43	50
Pharmacology	94	101	105	114	136	151	146	166
Physiology	99	99	95	101	95	78	103	98
Zoology	23	24	17	13	16	16	13	10
Other	139	162	151	142	128	171	190	258
Computer sciences	1,182	1,155	1,276	1,300	1,355	1,501	1,533	1,726
Earth, atmospheric, and ocean sciences	202	215	219	203	202	213	220	227
Atmospheric sciences	12	18	15	12	8	7	18	19
Earth	56	67	70	56	59	62	56	57
Ocean sciences	41	34	33	26	25	28	28	31
Other	93	96	101	109	110	116	118	120
Mathematics and statistics	673	689	711	657	613	594	569	591
Mathematics and applied mathematics	611	616	639	607	561	543	506	526
Statistics	62	73	72	50	52	51	63	65
Physical sciences	856	897	986	952	913	903	916	879
Astronomy	8	11	14	11	9	9	9	12
Chemistry	596	624	679	667	635	633	648	631
Physics	242	248	280	245	242	234	235	215
Other	10	14	13	29	27	27	24	21
Psychology	3,529	3,359	3,452	3,644	3,813	3,787	4,265	4,621
Clinical	632	602	652	736	725	710	756	751
General	1,395	1,455	1,443	1,544	1,507	1,405	1,475	1,724
Nonclinical	1,502	1,302	1,357	1,364	1,581	1,672	2,034	2,146
Social sciences	6,435	6,934	7,245	7,313	7,448	7,846	7,942	8,138
Agricultural economics	77	69	62	65	70	84	80	76
Anthropology (cultural and social)	209	215	251	254	266	291	278	274
Economics	370	399	371	324	317	291	323	314
Geography	124	98	109	83	108	92	90	114
History and philosophy of science	7	8	10	8	12	14	14	16
Linguistics	59	51	43	45	46	49	44	47
Political science and public administration	3,228	3,552	3,627	3,699	3,795	4,098	4,088	4,255
Sociology	943	957	1,019	1,053	1,114	1,061	996	999
Other	1,418	1,585	1,753	1,782	1,720	1,866	2,029	2,043
Engineering	2,784	2,857	2,899	2,879	2,821	2,965	3,002	2,921
Aerospace	61	51	47	35	34	52	57	45
Agricultural	16	20	17	21	27	23	23	26
Biomedical	61	72	84	83	86	104	114	121
Chemical	157	175	191	172	185	147	169	167
Civil	424	471	491	443	410	450	450	431
Electrical	861	821	777	871	872	885	831	813
Engineering science/physics	44	37	40	39	39	35	34	33
Industrial/manufacturing	514	541	535	489	465	541	577	591
Mechanical	398	403	417	428	412	375	398	354
Metallurgical and materials	89	88	104	112	75	92	94	107
Mining	2	2	0	0	1	1	5	1
Nuclear	22	23	16	21	13	15	17	13
Petroleum	7	5	2	8	5	5	7	4
Other	128	148	178	157	197	240	226	215
Hispanic								
S&E	13,273	14,112	14,571	14,984	15,485	16,533	17,220	17,983
Sciences	10,410	11,304	11,635	12,172	12,585	13,609	14,200	14,785
Agricultural sciences	268	289	374	408	387	417	433	422
Biological sciences	1,647	1,825	1,851	1,990	2,056	2,186	2,188	2,338
Anatomy	25	27	27	15	15	27	26	22
Biochemistry	115	122	111	148	141	152	143	171
Biology	553	617	621	694	691	676	710	700

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Biometry and epidemiology	100	116	123	137	160	161	165	148
Biophysics	10	14	14	17	14	17	13	20
Botany	56	41	55	50	56	49	40	44
Cell and molecular biology	106	113	111	113	122	152	155	180
Ecology	42	43	51	47	43	41	51	58
Entomology and parasitology	27	26	43	42	26	27	31	39
Genetics	34	39	34	42	51	58	57	67
Microbiology, immunology, and virology	150	167	164	170	187	201	196	220
Nutrition	142	144	163	155	172	186	152	162
Pathology	35	39	39	44	42	56	54	67
Pharmacology	80	74	76	85	88	92	112	113
Physiology	51	75	60	65	70	84	65	60
Zoology	43	47	39	30	36	31	28	29
Other	78	121	120	136	142	176	190	238
Computer sciences	631	664	700	723	754	872	872	901
Earth, atmospheric, and ocean sciences	339	365	374	399	370	400	355	397
Atmospheric sciences	14	10	11	12	13	7	12	15
Earth	140	152	141	161	137	154	136	155
Ocean sciences	88	99	106	116	108	132	113	137
Other	97	104	116	110	112	107	94	90
Mathematics and statistics	369	400	425	427	454	447	460	498
Mathematics and applied mathematics	331	369	376	386	404	399	413	458
Statistics	38	31	49	41	50	48	47	40
Physical sciences	675	731	742	782	832	895	846	896
Astronomy	16	16	13	11	12	13	17	17
Chemistry	442	485	504	523	562	618	602	629
Physics	211	219	216	237	226	229	204	239
Other	6	11	9	11	32	35	23	11
Psychology	2,485	2,799	2,937	3,075	3,228	3,575	4,154	4,323
Clinical	644	812	842	925	1,119	1,182	1,403	1,488
General	823	827	890	909	911	931	971	1,017
Nonclinical	1,018	1,160	1,205	1,241	1,198	1,462	1,780	1,818
Social sciences	3,996	4,231	4,232	4,368	4,504	4,817	4,892	5,010
Agricultural economics	52	55	60	53	42	36	39	40
Anthropology (cultural and social)	295	345	336	338	344	327	367	383
Economics	355	364	310	277	276	247	238	306
Geography	118	100	90	91	98	111	98	106
History and philosophy of science	5	4	8	10	12	22	17	18
Linguistics	158	138	131	157	150	135	142	126
Political science and public administration	1,786	1,927	1,895	1,926	1,989	2,166	2,304	2,171
Sociology	473	507	518	581	602	641	607	605
Other	754	791	884	935	991	1,132	1,080	1,255
Engineering	2,863	2,808	2,936	2,812	2,900	2,924	3,020	3,198
Aerospace	75	65	62	71	76	80	80	70
Agricultural	11	18	19	17	15	16	22	27
Biomedical	79	58	60	56	80	86	92	101
Chemical	171	202	200	142	179	182	181	180
Civil	551	593	712	694	723	701	779	746
Electrical	855	784	793	810	812	769	717	825
Engineering science/physics	38	31	55	41	42	44	36	40
Industrial/manufacturing	384	386	421	396	364	426	440	469
Mechanical	453	422	383	360	389	388	365	425
Metallurgical and materials	122	102	89	86	84	75	84	80
Mining	2	3	4	7	4	2	2	3

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Nuclear	26	21	20	22	22	28	30	34
Petroleum	14	21	13	10	6	5	59	63
Other	82	102	105	100	104	122	133	135
American Indian/Alaskan Native								
S&E	1,382	1,516	1,538	1,599	1,607	1,556	1,604	1,687
Sciences	1,141	1,286	1,304	1,360	1,371	1,314	1,395	1,460
Agricultural sciences	38	60	48	62	70	68	56	57
Biological sciences	183	205	200	197	192	186	188	205
Anatomy	1	1	4	3	3	3	4	4
Biochemistry	13	16	14	15	13	6	8	15
Biology	55	63	62	60	51	59	58	52
Biometry and epidemiology	11	13	9	11	7	6	11	11
Biophysics	1	2	0	1	1	1	1	1
Botany	11	6	4	3	3	4	3	9
Cell and molecular biology	11	12	8	9	11	9	12	10
Ecology	7	7	3	8	5	5	5	8
Entomology and parasitology	0	1	2	1	3	1	1	2
Genetics	0	1	4	6	4	4	6	7
Microbiology, immunology, and virology	19	16	14	10	18	15	21	13
Nutrition	11	17	14	12	16	15	13	15
Pathology	4	3	9	11	10	7	6	11
Pharmacology	11	17	8	5	6	14	8	10
Physiology	10	6	9	7	10	8	3	7
Zoology	7	11	18	12	9	7	7	8
Other	11	13	18	23	22	22	21	22
Computer sciences	44	56	54	60	92	75	81	88
Earth, atmospheric, and ocean sciences	48	52	65	82	84	63	61	70
Atmospheric sciences	3	4	3	2	2	2	3	4
Earth	29	27	31	38	36	26	27	32
Ocean sciences	6	8	12	17	16	12	10	12
Other	10	13	19	25	30	23	21	22
Mathematics and statistics	36	70	41	43	34	30	24	38
Mathematics and applied mathematics	31	57	36	40	30	26	19	34
Statistics	5	13	5	3	4	4	5	4
Physical sciences	67	76	60	70	64	69	75	81
Astronomy	3	3	2	1	2	2	1	0
Chemistry	46	43	45	50	46	53	61	62
Physics	16	30	13	18	14	13	12	19
Other	2	0	0	1	2	1	1	0
Psychology	317	330	359	341	311	303	362	336
Clinical	93	102	117	111	112	93	104	92
General	112	109	118	109	93	96	124	104
Nonclinical	112	119	124	121	106	114	134	140
Social sciences	408	437	477	505	524	520	548	585
Agricultural economics	5	5	5	3	5	7	7	4
Anthropology (cultural and social)	89	103	106	103	119	105	108	102
Economics	19	21	16	16	16	13	19	21
Geography	17	23	18	15	13	14	20	28
History and philosophy of science	1	1	0	1	1	2	2	2
Linguistics	7	9	4	7	9	15	13	13
Political science and public administration	145	140	154	155	172	177	175	190
Sociology	57	49	63	76	68	66	67	66
Other	68	86	111	129	121	121	137	159
Engineering	241	230	234	239	236	242	209	227
Aerospace	6	8	5	3	7	8	8	8
Agricultural	0	1	1	8	4	1	3	3

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Biomedical	15	4	6	6	7	8	5	5
Chemical	18	21	31	18	21	16	20	13
Civil	38	42	48	58	43	56	39	43
Electrical	52	51	50	46	33	47	37	45
Engineering science/physics	4	5	3	4	7	6	8	9
Industrial/manufacturing	24	24	22	23	34	39	41	43
Mechanical	54	44	35	35	25	33	28	32
Metallurgical and materials	6	8	8	11	33	10	5	8
Mining	1	0	1	0	0	0	1	0
Nuclear	4	2	3	3	2	2	1	0
Petroleum	2	2	1	2	2	0	1	1
Other	17	18	20	22	18	16	12	17
Other race/ethnicity								
S&E	14,630	18,290	17,939	18,725	18,741	18,588	20,655	21,335
Sciences	10,275	13,417	13,369	14,239	14,559	14,755	16,355	17,007
Agricultural sciences	273	377	269	347	294	270	405	476
Biological sciences	1,432	1,816	1,792	2,102	2,218	2,396	2,426	2,499
Anatomy	34	22	18	32	36	19	15	13
Biochemistry	66	121	114	167	129	142	125	173
Biology	569	775	667	747	775	796	678	659
Biometry and epidemiology	52	67	97	126	227	175	162	181
Biophysics	3	14	36	41	71	38	40	32
Botany	40	52	54	57	64	60	73	82
Cell and molecular biology	43	82	66	117	128	191	264	286
Ecology	46	72	60	78	58	54	94	89
Entomology and parasitology	26	23	24	24	22	22	21	29
Genetics	16	36	45	34	32	99	129	101
Microbiology, immunology, and virology	99	95	104	132	143	267	255	246
Nutrition	131	119	134	97	98	103	134	162
Pathology	60	25	50	71	69	67	65	74
Pharmacology	63	71	46	52	57	54	51	53
Physiology	61	50	57	86	53	64	68	48
Zoology	37	34	13	29	73	39	51	44
Other	86	158	207	212	183	206	201	227
Computer sciences	1,441	1,972	2,004	2,303	2,237	2,378	2,845	2,977
Earth, atmospheric, and ocean sciences	373	473	477	530	581	480	450	451
Atmospheric sciences	16	14	13	62	31	30	28	28
Earth	189	254	248	256	282	231	223	203
Ocean sciences	59	53	75	54	86	54	55	71
Other	109	152	141	158	182	165	144	149
Mathematics and statistics	734	761	651	646	692	598	630	683
Mathematics and applied mathematics	626	684	595	594	614	534	554	582
Statistics	108	77	56	52	78	64	76	101
Physical sciences	799	1,020	865	1,001	1,050	973	1,057	1,292
Astronomy	25	43	21	17	45	27	34	41
Chemistry	471	585	484	604	551	500	496	523
Physics	294	387	351	373	402	334	399	622
Other	9	5	9	7	52	112	128	106
Psychology	2,235	3,322	3,317	3,425	3,378	3,567	3,627	3,282
Clinical	441	469	480	586	508	626	604	797
General	785	825	757	743	887	863	969	1,006
Nonclinical	1,009	2,028	2,080	2,096	1,983	2,078	2,054	1,479
Social sciences	2,988	3,676	3,994	3,885	4,109	4,093	4,915	5,347
Agricultural economics	36	69	38	47	60	28	43	72
Anthropology (cultural and social)	266	313	281	286	319	391	476	520
Economics	336	305	391	344	413	286	455	482

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Geography	156	172	180	189	250	203	210	178
History and philosophy of science	1	11	11	33	14	16	24	30
Linguistics	87	132	106	147	116	115	172	149
Political science and public administration	1,357	1,661	1,923	1,629	1,614	1,533	1,811	2,039
Sociology	252	360	289	303	305	320	410	371
Other	497	653	775	907	1,018	1,201	1,314	1,506
Engineering	4,355	4,873	4,570	4,486	4,182	3,833	4,300	4,328
Aerospace	87	82	85	63	72	87	92	108
Agricultural	14	18	19	43	27	22	27	22
Biomedical	62	73	74	112	113	84	78	201
Chemical	210	198	223	215	230	233	229	147
Civil	586	697	775	637	610	575	543	590
Electrical	1,453	1,535	1,436	1,624	1,497	1,266	1,595	1,544
Engineering science/physics	34	76	65	32	31	51	101	132
Industrial/manufacturing	884	1,055	757	578	599	522	585	563
Mechanical	721	752	657	602	590	465	576	510
Metallurgical and materials	113	118	93	198	127	86	85	107
Mining	14	12	49	9	15	4	3	5
Nuclear	9	7	14	6	5	7	3	7
Petroleum	11	6	0	8	2	3	50	48
Other	157	244	323	359	264	428	333	344
Temporary resident								
S&E	102,116	98,503	98,105	98,961	101,972	109,890	121,838	133,298
Sciences	65,110	63,019	63,049	62,455	64,183	68,387	75,082	81,388
Agricultural sciences	3,121	3,079	2,930	2,706	2,583	2,474	2,360	2,503
Biological sciences	12,789	12,190	11,460	11,146	11,403	11,218	11,764	12,385
Anatomy	229	244	212	211	190	194	210	209
Biochemistry	1,819	1,702	1,525	1,411	1,453	1,455	1,595	1,579
Biology	1,983	1,977	1,970	2,037	2,080	1,992	2,025	2,146
Biometry and epidemiology	601	578	563	511	677	710	786	851
Biophysics	211	208	175	171	166	154	204	261
Botany	822	782	707	692	673	647	627	612
Cell and molecular biology	888	846	843	846	862	857	982	1,077
Ecology	174	162	162	169	171	174	184	192
Entomology and parasitology	364	373	318	290	291	302	280	275
Genetics	362	353	387	418	394	379	376	416
Microbiology, immunology, and virology	1,304	1,185	1,063	979	960	943	939	1,004
Nutrition	1,252	1,254	1,161	1,109	1,071	1,064	1,111	1,160
Pathology	363	342	330	294	288	295	303	293
Pharmacology	653	547	573	553	576	569	624	648
Physiology	593	528	448	423	438	454	446	431
Zoology	301	245	224	191	190	159	194	224
Other	870	864	799	841	923	870	878	1,007
Computer sciences	11,062	10,795	11,847	12,917	14,422	17,155	22,140	25,749
Earth, atmospheric, and ocean sciences	3,264	2,947	2,766	2,515	2,499	2,520	2,692	2,761
Atmospheric sciences	265	266	283	291	255	274	304	274
Earth	1,749	1,543	1,457	1,293	1,244	1,224	1,302	1,345
Ocean sciences	722	621	557	507	533	516	526	514
Other	528	517	469	424	467	506	560	628
Mathematics and statistics	6,063	5,809	5,761	5,544	5,421	5,927	6,034	6,470
Mathematics and applied mathematics	4,956	4,692	4,696	4,506	4,380	4,660	4,654	4,847
Statistics	1,107	1,117	1,065	1,038	1,041	1,267	1,380	1,623
Physical sciences	11,709	11,409	11,178	10,895	10,738	11,132	11,563	11,993
Astronomy	262	232	216	185	213	239	271	283
Chemistry	6,412	6,414	6,275	6,112	6,025	6,085	6,156	6,386

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Physics	4,947	4,680	4,630	4,539	4,430	4,729	5,058	5,230
Other	88	83	57	59	70	79	78	94
Psychology	2,343	2,087	1,973	2,008	2,186	2,239	2,260	2,513
Clinical	379	329	304	335	363	396	390	425
General	794	730	663	667	695	720	808	928
Nonclinical	1,170	1,028	1,006	1,006	1,128	1,123	1,062	1,160
Social sciences	14,759	14,703	15,134	14,724	14,931	15,722	16,269	17,014
Agricultural economics	940	999	900	920	904	925	1,014	1,052
Anthropology (cultural and social)	787	694	690	702	739	823	823	769
Economics	5,277	5,388	5,521	5,383	5,240	5,533	5,780	6,247
Geography	500	498	482	524	559	598	624	722
History and philosophy of science	56	46	50	67	67	59	69	70
Linguistics	1,012	997	1,002	982	1,023	962	960	962
Political science and public administration	3,413	3,378	3,543	3,426	3,552	3,919	4,152	4,252
Sociology	1,335	1,208	1,131	1,161	1,109	1,176	1,246	1,306
Other	1,439	1,495	1,815	1,559	1,738	1,727	1,601	1,634
Engineering	37,006	35,484	35,056	36,506	37,789	41,503	46,756	51,910
Aerospace	1,239	1,186	1,273	1,318	1,417	1,532	1,513	1,604
Agricultural	494	483	472	420	406	408	386	410
Biomedical	822	737	705	710	728	867	960	1,134
Chemical	3,027	2,969	2,887	2,864	2,885	3,014	3,295	3,413
Civil	5,958	5,659	5,265	5,103	4,962	5,425	6,114	6,543
Electrical	11,408	11,217	11,370	12,645	13,801	15,100	17,798	19,973
Engineering science/physics	623	519	493	448	552	534	677	744
Industrial/manufacturing	3,588	3,352	3,326	3,341	3,352	3,730	4,438	5,323
Mechanical	5,821	5,458	5,483	5,694	5,650	6,196	6,906	7,541
Metallurgical and materials	1,974	1,927	1,920	1,967	2,010	2,043	2,112	2,336
Mining	192	171	134	125	76	109	132	104
Nuclear	412	380	310	303	294	332	335	356
Petroleum	384	370	361	412	448	494	362	413
Other	1,064	1,056	1,057	1,156	1,208	1,719	1,728	2,016

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994–2001.

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
All S&E graduate students	159,093	160,190	161,649	161,989	163,403	168,425	170,801	177,644
Sciences	141,043	142,177	143,395	143,269	144,415	148,538	149,989	155,417
Agricultural sciences	4,315	4,459	4,449	4,561	4,719	4,910	4,931	5,202
Biological sciences	28,137	28,851	28,771	28,617	29,079	29,673	29,918	31,096
Anatomy	493	465	467	460	413	416	436	419
Biochemistry	2,377	2,414	2,288	2,176	2,229	2,266	2,224	2,223
Biology	6,748	6,903	7,129	7,287	7,213	7,143	7,009	7,170
Biometry/epidemiology	1,586	1,673	1,774	1,781	2,159	2,242	2,192	2,358
Biophysics	218	241	244	216	209	213	229	265
Botany	1,164	1,144	1,110	1,119	1,118	1,093	1,099	1,084
Cell/molecular biology	1,762	1,848	1,894	1,959	2,052	2,273	2,402	2,446
Ecology	745	774	768	781	823	870	906	960
Entomology/parasitology	417	414	424	410	414	406	442	480
Genetics	912	882	901	959	970	1,007	968	1,041
Microbiology, immunology, and virology	2,490	2,457	2,432	2,396	2,371	2,450	2,434	2,495
Nutrition	3,518	3,775	3,680	3,460	3,413	3,431	3,396	3,436
Pathology	782	780	809	832	804	804	828	901
Pharmacology	1,352	1,311	1,291	1,229	1,325	1,343	1,515	1,606
Physiology	986	1,058	981	934	886	898	877	911
Zoology	844	831	787	722	712	686	660	685
Other	1,743	1,881	1,792	1,896	1,968	2,132	2,301	2,616
Computer sciences	8,087	8,133	8,797	9,881	10,802	12,570	14,163	15,294
Earth, atmospheric, and ocean sciences	5,319	5,434	5,447	5,416	5,568	5,725	5,751	5,892
Atmospheric	242	237	234	263	234	242	268	298
Earth	2,223	2,283	2,320	2,296	2,315	2,400	2,453	2,483
Ocean	1,115	1,107	1,070	1,055	1,162	1,222	1,267	1,255
Other	1,739	1,807	1,823	1,802	1,857	1,861	1,763	1,856
Mathematics/statistics	6,531	6,258	6,219	5,868	5,988	6,043	5,781	6,277
Mathematics/applied mathematics	5,402	5,069	4,986	4,783	4,895	4,862	4,509	4,828
Statistics	1,129	1,189	1,233	1,085	1,093	1,181	1,272	1,449
Physical sciences	9,167	9,085	9,045	8,848	8,753	8,915	9,128	9,332
Astronomy	223	223	227	208	230	225	267	265
Chemistry	6,845	6,828	6,839	6,722	6,564	6,617	6,773	6,848
Physics	1,908	1,835	1,809	1,744	1,780	1,876	1,906	2,045
Other	191	199	170	174	179	197	182	174
Psychology	38,138	37,764	37,747	37,619	37,462	37,370	37,030	37,583
Clinical	8,998	8,932	9,087	9,312	9,173	9,285	9,283	9,389
General	12,369	11,995	11,646	11,874	11,844	11,384	11,087	11,438
Nonclinical	16,771	16,837	17,014	16,433	16,445	16,701	16,660	16,756
Social sciences	41,349	42,193	42,920	42,459	42,044	43,332	43,287	44,741
Agricultural economics	748	783	710	688	680	715	789	835
Anthropology (cultural and social)	4,593	4,553	4,686	4,501	4,556	4,644	4,688	4,562
Economics	3,793	3,876	3,783	3,512	3,464	3,499	3,773	3,982
Geography	1,598	1,585	1,561	1,625	1,663	1,703	1,631	1,786
History and philosophy of science	140	139	152	162	193	212	219	244
Linguistics	2,066	2,000	2,023	2,017	1,953	1,833	1,744	1,793
Political science and public administration	15,584	15,950	15,632	15,404	14,961	15,575	15,944	16,518
Sociology	5,740	5,783	5,785	5,822	5,696	5,739	5,604	5,709
Other	7,087	7,524	8,588	8,728	8,878	9,412	8,895	9,312
Engineering	18,050	18,013	18,254	18,720	18,988	19,887	20,812	22,227
Aerospace	358	351	352	371	382	423	469	485
Agricultural	200	202	210	218	243	251	268	284
Biomedical	697	726	733	826	870	1,004	1,070	1,241
Chemical	1,529	1,567	1,651	1,720	1,727	1,733	1,881	1,829
Civil	4,211	4,232	4,300	4,164	4,102	4,157	4,286	4,479
Electrical	4,102	4,088	4,122	4,438	4,747	4,973	5,351	6,030

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Engineering science/physics	306	297	295	278	331	319	342	363
Industrial/manufacturing	2,857	2,823	2,769	2,656	2,452	2,659	2,734	2,808
Mechanical	1,823	1,677	1,636	1,779	1,762	1,788	1,853	1,939
Metallurgical/materials	1,083	1,074	1,077	1,117	1,130	1,084	1,041	1,173
Mining	50	42	54	63	55	55	46	36
Nuclear	153	145	153	143	134	144	156	157
Petroleum	59	71	60	77	55	82	87	92
Other	622	718	842	870	998	1,215	1,228	1,311
U.S. citizen/permanent resident								
S&E	133,214	134,028	134,535	133,712	133,366	135,475	134,240	137,236
Sciences	120,008	121,051	121,700	121,181	120,985	123,094	122,008	124,722
Agricultural sciences	3,475	3,599	3,607	3,747	3,896	4,084	4,108	4,258
Biological sciences	22,583	23,389	23,493	23,473	23,606	24,215	24,070	24,749
Anatomy	388	358	381	380	341	332	350	330
Biochemistry	1,623	1,670	1,615	1,581	1,596	1,604	1,507	1,467
Biology	5,850	5,973	6,187	6,312	6,192	6,166	5,994	6,063
Biometry/epidemiology	1,299	1,381	1,495	1,525	1,822	1,877	1,766	1,864
Biophysics	165	183	192	171	164	170	174	190
Botany	851	832	838	833	817	810	812	798
Cell/molecular biology	1,376	1,474	1,496	1,565	1,640	1,817	1,862	1,859
Ecology	672	713	702	719	751	796	821	876
Entomology/parasitology	311	309	326	325	334	322	357	395
Genetics	751	745	748	780	775	837	788	843
Microbiology, immunology, and virology	1,919	1,934	1,945	1,943	1,907	1,968	1,961	1,951
Nutrition	2,789	3,040	2,971	2,764	2,707	2,745	2,668	2,672
Pathology	644	640	674	707	671	678	696	765
Pharmacology	1,052	1,059	1,012	960	1,043	1,064	1,196	1,256
Physiology	765	843	797	765	702	710	687	698
Zoology	733	738	693	647	634	618	566	586
Other	1,395	1,497	1,421	1,496	1,510	1,701	1,865	2,136
Computer sciences	5,668	5,537	5,736	6,198	6,577	7,437	7,528	7,742
Earth, atmospheric, and ocean sciences	4,442	4,637	4,675	4,697	4,805	4,868	4,855	4,916
Atmospheric	157	151	151	165	146	137	166	195
Earth	1,842	1,950	2,001	2,006	2,021	2,069	2,098	2,100
Ocean	902	938	903	891	980	1,038	1,065	1,049
Other	1,541	1,598	1,620	1,635	1,658	1,624	1,526	1,572
Mathematics/statistics	4,842	4,602	4,557	4,169	4,205	3,982	3,670	3,941
Mathematics/applied mathematics	4,101	3,849	3,759	3,513	3,563	3,367	3,043	3,309
Statistics	741	753	798	656	642	615	627	632
Physical sciences	6,198	6,050	6,004	5,837	5,833	5,862	5,868	5,910
Astronomy	174	170	178	169	181	172	197	191
Chemistry	4,653	4,582	4,611	4,537	4,441	4,477	4,510	4,500
Physics	1,197	1,120	1,070	981	1,062	1,047	1,002	1,079
Other	174	178	145	150	149	166	159	140
Psychology	36,736	36,534	36,482	36,361	36,074	35,921	35,523	35,846
Clinical	8,756	8,735	8,884	9,084	8,923	9,005	8,977	9,058
General	11,946	11,608	11,258	11,495	11,458	10,949	10,591	10,835
Nonclinical	16,034	16,191	16,340	15,782	15,693	15,967	15,955	15,953
Social sciences	36,064	36,703	37,146	36,699	35,989	36,725	36,386	37,360
Agricultural economics	473	480	441	414	390	393	413	423
Anthropology (cultural and social)	4,200	4,210	4,324	4,127	4,169	4,196	4,227	4,141
Economics	2,345	2,284	2,135	1,867	1,808	1,719	1,837	1,832
Geography	1,426	1,408	1,397	1,428	1,454	1,466	1,388	1,496
History and philosophy of science	126	126	137	141	170	194	189	219
Linguistics	1,479	1,423	1,403	1,388	1,297	1,233	1,130	1,161

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Political science and public administration	14,394	14,653	14,277	14,045	13,537	13,934	14,148	14,608
Sociology	5,094	5,196	5,237	5,239	5,098	5,074	4,885	4,923
Other	6,527	6,923	7,795	8,050	8,066	8,516	8,169	8,557
Engineering	13,206	12,977	12,835	12,531	12,381	12,381	12,232	12,514
Aerospace	261	256	246	227	224	255	282	282
Agricultural	100	101	108	128	141	150	173	182
Biomedical	522	562	569	646	676	744	778	871
Chemical	1,054	1,045	1,064	1,076	1,059	1,020	1,067	998
Civil	3,310	3,265	3,317	3,115	3,046	2,955	2,923	2,943
Electrical	2,686	2,570	2,464	2,440	2,461	2,339	2,281	2,402
Engineering science/physics	222	228	216	209	220	215	195	209
Industrial/manufacturing	2,298	2,306	2,219	2,079	1,869	2,003	1,923	1,891
Mechanical	1,369	1,224	1,144	1,166	1,153	1,141	1,085	1,125
Metallurgical/materials	766	742	703	701	677	618	581	622
Mining	35	27	41	55	51	43	32	32
Nuclear	103	100	105	100	88	87	95	88
Petroleum	23	27	16	18	15	17	40	40
Other	457	524	623	571	701	794	777	829
White								
S&E	102,070	99,828	98,687	96,493	94,913	94,939	91,972	92,678
Sciences	92,844	90,954	90,067	88,222	86,747	87,075	84,298	85,117
Agricultural sciences	2,995	3,018	3,033	3,135	3,247	3,435	3,411	3,478
Biological sciences	17,910	18,118	18,037	17,526	17,536	17,838	17,771	17,890
Anatomy	281	264	281	287	268	256	277	267
Biochemistry	1,246	1,223	1,172	1,088	1,144	1,158	1,122	1,017
Biology	4,465	4,448	4,607	4,591	4,486	4,459	4,352	4,365
Biometry/epidemiology	985	1,011	1,057	1,044	1,198	1,266	1,148	1,225
Biophysics	122	137	143	126	111	117	120	138
Botany	739	727	709	693	670	684	693	658
Cell/molecular biology	1,127	1,195	1,200	1,219	1,216	1,311	1,299	1,254
Ecology	599	637	625	634	666	698	699	744
Entomology/parasitology	266	263	277	271	291	283	310	341
Genetics	644	630	632	639	633	625	591	632
Microbiology, immunology, and virology	1,515	1,485	1,481	1,395	1,382	1,387	1,390	1,353
Nutrition	2,281	2,444	2,353	2,171	2,100	2,124	2,083	2,009
Pathology	512	525	544	531	501	490	525	558
Pharmacology	783	766	736	686	734	737	864	869
Physiology	586	598	552	494	492	484	473	465
Zoology	657	657	622	585	542	545	502	526
Other	1,102	1,108	1,046	1,072	1,102	1,214	1,323	1,469
Computer sciences	3,269	3,083	3,040	3,143	3,198	3,534	3,649	3,758
Earth, atmospheric, and ocean sciences	3,920	4,045	4,053	4,039	4,065	4,134	4,198	4,213
Atmospheric	125	120	118	117	108	111	126	156
Earth	1,629	1,718	1,772	1,771	1,753	1,810	1,868	1,853
Ocean	791	818	772	765	829	885	921	897
Other	1,375	1,389	1,391	1,386	1,375	1,328	1,283	1,307
Mathematics/statistics	3,668	3,426	3,290	3,035	3,040	2,861	2,608	2,798
Mathematics/applied mathematics	3,104	2,848	2,704	2,558	2,586	2,431	2,184	2,357
Statistics	564	578	586	477	454	430	424	441
Physical sciences	4,684	4,482	4,371	4,180	4,170	4,165	4,165	4,158
Astronomy	144	142	146	137	145	146	163	154
Chemistry	3,483	3,347	3,338	3,220	3,176	3,182	3,169	3,167
Physics	906	833	771	717	759	739	743	753
Other	151	160	116	106	90	98	90	84

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Psychology	29,350	28,163	27,753	27,408	26,707	26,128	24,537	24,557
Clinical	7,054	6,896	6,941	6,924	6,617	6,577	6,320	6,144
General	9,360	8,912	8,483	8,705	8,511	8,065	7,432	7,401
Nonclinical	12,936	12,355	12,329	11,779	11,579	11,486	10,785	11,012
Social sciences	27,048	26,619	26,490	25,756	24,784	24,980	23,959	24,265
Agricultural economics	380	378	355	315	295	309	331	331
Anthropology (cultural and social)	3,542	3,482	3,569	3,364	3,359	3,310	3,266	3,148
Economics	1,809	1,713	1,575	1,351	1,227	1,150	1,225	1,195
Geography	1,216	1,198	1,192	1,230	1,239	1,242	1,165	1,255
History and philosophy of science	116	112	119	120	149	163	158	182
Linguistics	1,127	1,058	1,071	995	934	901	801	830
Political science and public administration	10,381	10,007	9,442	9,244	8,645	8,765	8,565	8,749
Sociology	3,767	3,794	3,778	3,701	3,509	3,506	3,319	3,376
Other	4,710	4,877	5,389	5,436	5,427	5,634	5,129	5,199
Engineering	9,226	8,874	8,620	8,271	8,166	7,864	7,674	7,561
Aerospace	212	210	198	183	175	198	218	210
Agricultural	79	79	86	82	103	113	118	117
Biomedical	386	410	410	472	483	520	542	550
Chemical	725	705	705	742	704	643	672	610
Civil	2,530	2,401	2,408	2,312	2,206	2,098	2,124	2,097
Electrical	1,497	1,431	1,308	1,152	1,211	1,083	964	994
Engineering science/physics	167	166	154	142	150	137	134	138
Industrial/manufacturing	1,666	1,636	1,544	1,438	1,272	1,315	1,227	1,162
Mechanical	954	818	766	762	791	749	705	723
Metallurgical/materials	577	573	547	500	506	443	426	449
Mining	30	24	30	43	37	33	29	29
Nuclear	80	76	84	71	71	66	69	64
Petroleum	19	18	10	9	9	13	15	10
Other	304	327	370	363	448	453	431	408
Asian/Pacific Islander								
S&E	9,319	9,530	9,982	10,330	10,829	11,527	10,899	11,662
Sciences	7,500	7,749	8,200	8,548	8,995	9,518	9,008	9,498
Agricultural sciences	110	129	140	138	150	167	138	146
Biological sciences	1,928	2,134	2,210	2,320	2,354	2,371	2,247	2,536
Anatomy	51	46	50	52	32	33	29	32
Biochemistry	236	277	283	260	244	235	190	211
Biology	447	435	449	471	454	438	389	424
Biometry/epidemiology	131	151	197	200	246	262	285	294
Biophysics	31	33	27	21	18	29	29	35
Botany	42	33	38	37	53	48	51	57
Cell/molecular biology	132	143	161	174	229	260	252	270
Ecology	18	15	19	26	29	27	26	29
Entomology/parasitology	20	19	16	17	17	10	15	19
Genetics	50	56	61	66	65	82	56	73
Microbiology, immunology, and virology	166	197	209	253	234	216	217	244
Nutrition	182	217	225	226	212	199	173	201
Pathology	64	67	63	86	82	86	71	96
Pharmacology	133	146	138	129	149	142	150	180
Physiology	75	118	115	121	97	106	100	133
Zoology	24	25	27	21	30	28	15	16
Other	126	156	132	160	163	170	199	222
Computer sciences	1,357	1,337	1,432	1,648	1,920	2,322	2,100	2,092
Earth, atmospheric, and ocean sciences	155	159	160	164	186	192	172	173
Atmospheric	20	19	16	20	17	8	16	14
Earth	49	48	49	48	57	66	60	55

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Ocean	33	32	32	25	26	36	35	30
Other	53	60	63	71	86	82	61	74
Mathematics/statistics	473	452	522	429	470	437	419	439
Mathematics/applied mathematics	393	355	397	321	369	328	309	345
Statistics	80	97	125	108	101	109	110	94
Physical sciences	670	621	648	594	610	636	602	591
Astronomy	14	8	15	17	15	13	14	15
Chemistry	497	483	513	478	485	495	499	475
Physics	149	123	108	86	96	117	79	94
Other	10	7	12	13	14	11	10	7
Psychology	1,148	1,182	1,292	1,399	1,468	1,507	1,543	1,626
Clinical	355	358	378	432	426	453	453	466
General	385	392	424	455	514	503	529	549
Nonclinical	408	432	490	512	528	551	561	611
Social sciences	1,659	1,735	1,796	1,856	1,837	1,886	1,787	1,895
Agricultural economics	19	27	25	22	25	18	13	15
Anthropology (cultural and social)	117	130	155	162	167	183	192	186
Economics	230	214	204	202	225	240	220	205
Geography	49	66	71	61	45	54	46	55
History and philosophy of science	5	7	8	6	9	9	9	10
Linguistics	125	120	126	150	133	114	78	106
Political science and public administration	546	624	614	653	632	634	681	700
Sociology	265	244	268	258	262	254	236	240
Other	303	303	325	342	339	380	312	378
Engineering	1,819	1,781	1,782	1,782	1,834	2,009	1,891	2,164
Aerospace	23	15	19	16	21	21	26	34
Agricultural	8	12	12	15	13	15	19	21
Biomedical	72	73	83	85	86	105	125	160
Chemical	140	121	137	151	148	176	171	173
Civil	342	365	351	290	313	316	246	282
Electrical	679	650	671	691	705	704	729	783
Engineering science/physics	33	39	32	45	44	43	19	25
Industrial/manufacturing	179	165	176	176	156	198	170	195
Mechanical	177	181	163	143	138	179	146	180
Metallurgical/materials	83	74	59	77	75	85	73	78
Mining	4	2	3	10	13	10	1	1
Nuclear	11	11	7	12	8	6	5	8
Petroleum	1	4	5	2	4	1	1	4
Other	67	69	64	69	110	150	160	220
Black								
S&E	9,564	10,075	10,819	11,012	11,329	11,743	12,615	13,291
Sciences	8,747	9,175	9,875	10,096	10,450	10,767	11,581	12,308
Agricultural sciences	121	146	139	126	164	142	148	192
Biological sciences	1,041	1,192	1,287	1,386	1,388	1,463	1,490	1,564
Anatomy	29	24	22	21	20	21	22	17
Biochemistry	56	60	65	63	76	76	81	76
Biology	329	386	459	483	481	482	502	507
Biometry/epidemiology	71	96	94	104	122	131	117	125
Biophysics	5	6	6	7	8	8	7	7
Botany	24	24	42	56	30	23	14	21
Cell/molecular biology	36	40	47	59	63	63	74	77
Ecology	6	8	7	5	8	11	11	13
Entomology/parasitology	6	8	10	8	6	8	8	6
Genetics	33	26	20	24	29	30	30	31
Microbiology, immunology, and virology	82	100	109	122	111	124	124	121
Nutrition	118	156	141	158	169	176	172	185

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Pathology	28	21	23	30	30	35	31	32
Pharmacology	63	64	67	73	85	96	91	108
Physiology	58	68	65	71	58	51	61	56
Zoology	14	15	12	9	11	11	8	5
Other	83	90	98	93	81	117	137	177
Computer sciences	486	503	560	535	591	677	678	773
Earth, atmospheric, and ocean sciences	85	99	104	98	99	101	100	102
Atmospheric	2	6	7	4	3	4	9	7
Earth	25	27	29	20	24	31	24	25
Ocean	15	16	14	15	15	14	14	15
Other	43	50	54	59	57	52	53	55
Mathematics/statistics	330	304	343	310	274	270	275	271
Mathematics/applied mathematics	302	273	306	286	254	248	241	242
Statistics	28	31	37	24	20	22	34	29
Physical sciences	359	368	436	444	432	402	423	413
Astronomy	4	5	7	5	3	3	4	4
Chemistry	298	298	343	348	332	318	340	341
Physics	51	61	78	71	83	70	67	53
Other	6	4	8	20	14	11	12	15
Psychology	2,678	2,542	2,644	2,736	2,926	2,872	3,382	3,674
Clinical	487	464	505	574	560	545	593	603
General	1,028	1,098	1,101	1,124	1,137	1,052	1,146	1,330
Nonclinical	1,163	980	1,038	1,038	1,229	1,275	1,643	1,741
Social sciences	3,647	4,021	4,362	4,461	4,576	4,840	5,085	5,319
Agricultural economics	35	33	28	36	25	35	38	35
Anthropology (cultural and social)	142	145	167	175	184	209	198	216
Economics	121	149	159	127	126	133	155	151
Geography	49	37	35	36	43	44	44	53
History and philosophy of science	3	1	3	2	4	7	6	9
Linguistics	47	38	31	30	32	36	31	32
Political science and public administration	1,832	2,076	2,187	2,254	2,339	2,530	2,634	2,788
Sociology	586	601	658	669	727	688	662	685
Other	832	941	1,094	1,132	1,096	1,158	1,317	1,350
Engineering	817	900	944	916	879	976	1,034	983
Aerospace	7	9	8	7	7	8	8	4
Agricultural	5	6	6	7	10	6	10	16
Biomedical	32	42	46	49	44	50	59	62
Chemical	79	90	97	87	80	79	78	89
Civil	136	158	161	144	133	173	177	158
Electrical	191	187	167	193	193	200	202	191
Engineering science/physics	10	9	12	8	7	7	13	10
Industrial/manufacturing	205	228	241	219	208	232	256	242
Mechanical	74	84	90	104	104	88	103	81
Metallurgical/materials	34	35	47	44	31	43	43	46
Mining	1	0	0	0	0	0	1	0
Nuclear	3	6	9	9	4	8	11	6
Petroleum	3	2	1	3	0	0	0	1
Other	37	44	59	42	58	82	73	77
Hispanic								
S&E	6,079	6,712	6,924	7,289	7,645	8,329	8,939	9,454
Sciences	5,499	6,100	6,255	6,650	6,958	7,627	8,200	8,613
Agricultural sciences	124	134	168	162	177	208	210	211
Biological sciences	881	974	1,001	1,091	1,132	1,219	1,226	1,331
Anatomy	12	15	17	7	4	11	12	8
Biochemistry	48	59	54	77	69	70	70	84
Biology	292	306	321	369	376	358	379	387

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Biometry/epidemiology	69	71	79	97	111	114	111	103
Biophysics	4	4	3	4	1	2	2	3
Botany	23	22	21	19	29	27	20	21
Cell/molecular biology	56	54	53	54	60	77	87	97
Ecology	19	20	25	20	20	26	33	40
Entomology/parasitology	12	11	15	16	8	11	13	18
Genetics	16	18	17	25	27	34	33	43
Microbiology, immunology, and virology	92	102	94	101	103	107	107	120
Nutrition	118	119	136	125	145	155	127	134
Pathology	13	15	21	25	23	28	29	36
Pharmacology	41	42	43	43	45	52	62	62
Physiology	18	36	33	32	27	40	26	26
Zoology	17	20	18	13	18	10	12	13
Other	31	60	51	64	66	97	103	136
Computer sciences	160	162	177	210	195	213	249	245
Earth, atmospheric, and ocean sciences	127	142	144	163	168	200	169	201
Atmospheric	3	2	2	3	2	3	4	7
Earth	54	53	44	59	54	70	56	78
Ocean	38	45	47	57	60	70	59	65
Other	32	42	51	44	52	57	50	51
Mathematics/statistics	128	152	159	173	178	177	150	169
Mathematics/applied mathematics	110	136	139	152	153	158	136	156
Statistics	18	16	20	21	25	19	14	13
Physical sciences	231	262	287	283	307	346	337	357
Astronomy	2	2	3	2	2	3	3	5
Chemistry	188	222	235	235	247	289	287	292
Physics	38	33	44	40	43	41	40	58
Other	3	5	5	6	15	13	7	2
Psychology	1,780	2,037	2,130	2,215	2,347	2,617	3,113	3,273
Clinical	483	618	634	680	858	922	1,080	1,155
General	564	569	623	632	635	653	706	736
Nonclinical	733	850	873	903	854	1,042	1,327	1,382
Social sciences	2,068	2,237	2,189	2,353	2,454	2,647	2,746	2,826
Agricultural economics	20	21	21	21	21	17	16	18
Anthropology (cultural and social)	175	202	194	195	195	198	219	224
Economics	99	102	100	92	98	88	78	102
Geography	46	38	30	31	34	47	41	47
History and philosophy of science	1	1	2	2	4	8	6	6
Linguistics	120	108	92	106	117	100	103	93
Political science and public administration	908	1,017	967	1,040	1,087	1,187	1,294	1,258
Sociology	294	320	322	368	359	379	373	364
Other	405	428	461	498	539	623	616	714
Engineering	580	612	669	639	687	702	739	841
Aerospace	8	11	9	8	9	10	13	17
Agricultural	3	2	2	5	5	4	11	16
Biomedical	16	12	18	17	27	36	29	32
Chemical	51	69	70	37	65	54	69	72
Civil	155	171	204	206	219	203	238	237
Electrical	125	113	121	121	120	138	99	142
Engineering science/physics	7	7	6	9	12	15	10	11
Industrial/manufacturing	103	106	118	115	117	135	140	167
Mechanical	55	55	60	62	57	52	49	66
Metallurgical/materials	39	37	31	34	30	26	24	26
Mining	0	1	2	1	0	0	1	2

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Nuclear	4	4	2	6	4	5	8	9
Petroleum	0	2	0	2	1	2	16	17
Other	14	22	26	16	21	22	32	27
American Indian/Alaskan Native								
S&E	689	763	770	795	810	811	870	879
Sciences	627	714	727	736	747	744	800	814
Agricultural sciences	17	30	26	28	25	22	22	22
Biological sciences	106	118	107	106	104	106	109	110
Anatomy	1	0	3	2	2	2	1	1
Biochemistry	7	6	4	8	4	4	3	6
Biology	33	40	36	30	27	32	36	25
Biometry/epidemiology	7	10	8	7	5	4	9	9
Biophysics	1	2	0	1	1	1	1	1
Botany	5	3	3	3	2	4	3	5
Cell/molecular biology	5	7	5	7	7	8	10	9
Ecology	5	6	3	6	3	2	3	5
Entomology/parasitology	0	1	1	0	2	1	1	1
Genetics	0	0	1	5	3	3	5	6
Microbiology, immunology, and virology	10	5	6	4	9	4	5	3
Nutrition	9	15	14	11	13	13	12	15
Pathology	1	1	4	3	3	1	1	2
Pharmacology	9	8	3	2	4	10	4	3
Physiology	6	3	3	4	5	5	2	4
Zoology	2	5	6	2	3	3	4	3
Other	5	6	7	11	11	9	9	12
Computer sciences	8	15	14	17	24	24	30	29
Earth, atmospheric, and ocean sciences	23	21	29	35	40	31	28	33
Atmospheric	2	1	1	1	0	0	0	1
Earth	15	15	14	17	18	13	10	15
Ocean	2	2	5	8	7	5	4	6
Other	4	3	9	9	15	13	14	11
Mathematics/statistics	12	27	17	14	18	18	10	16
Mathematics/applied mathematics	8	23	15	13	15	15	6	14
Statistics	4	4	2	1	3	3	4	2
Physical sciences	18	19	18	24	23	29	21	27
Astronomy	1	1	1	1	1	1	0	0
Chemistry	13	13	14	20	18	23	18	23
Physics	3	5	3	3	4	5	3	4
Other	1	0	0	0	0	0	0	0
Psychology	220	237	248	223	224	215	259	253
Clinical	61	70	79	72	84	63	72	69
General	76	84	86	74	68	70	87	80
Nonclinical	83	83	83	77	72	82	100	104
Social sciences	223	247	268	289	289	299	321	324
Agricultural economics	2	2	2	3	3	1	1	0
Anthropology (cultural and social)	55	63	62	59	70	60	59	56
Economics	6	12	7	8	5	9	13	9
Geography	7	9	5	5	5	5	7	10
History and philosophy of science	1	1	0	0	0	1	2	2
Linguistics	4	5	2	4	7	10	8	9
Political science and public administration	76	72	80	86	84	91	90	98
Sociology	36	36	43	50	45	40	48	41
Other	36	47	67	74	70	82	93	99
Engineering	62	49	43	59	63	67	70	65
Aerospace	2	2	0	0	0	0	2	2
Agricultural	0	1	0	2	2	0	2	2

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Biomedical	5	1	1	1	2	1	1	1
Chemical	6	8	8	8	8	5	11	8
Civil	17	10	10	17	12	13	10	14
Electrical	7	5	5	7	8	11	11	6
Engineering science/physics	1	1	0	1	1	1	2	2
Industrial/manufacturing	7	7	4	6	11	16	14	13
Mechanical	10	7	7	8	5	8	9	9
Metallurgical/materials	1	1	1	2	6	5	2	2
Mining	0	0	0	0	0	0	0	0
Nuclear	2	1	1	1	1	1	1	0
Petroleum	0	0	0	1	0	0	0	0
Other	4	5	6	5	7	6	5	6
Other race/ethnicity								
S&E	5,493	7,120	7,353	7,793	7,840	8,126	8,945	9,272
Sciences	4,791	6,359	6,576	6,929	7,088	7,363	8,121	8,372
Agricultural sciences	108	142	101	158	133	110	179	209
Biological sciences	717	853	851	1,044	1,092	1,218	1,227	1,318
Anatomy	14	9	8	11	15	9	9	5
Biochemistry	30	45	37	85	59	61	41	73
Biology	284	358	315	368	368	397	336	355
Biometry/epidemiology	36	42	60	73	140	100	96	108
Biophysics	2	1	13	12	25	13	15	6
Botany	18	23	25	25	33	24	31	36
Cell/molecular biology	20	35	30	52	65	98	140	152
Ecology	25	27	23	28	25	32	49	45
Entomology/parasitology	7	7	7	13	10	9	10	10
Genetics	8	15	17	21	18	63	73	58
Microbiology, immunology, and virology	54	45	46	68	68	130	118	110
Nutrition	81	89	102	73	68	78	101	128
Pathology	26	11	19	32	32	38	39	41
Pharmacology	23	33	25	27	26	27	25	34
Physiology	22	20	29	43	23	24	25	14
Zoology	19	16	8	17	30	21	25	23
Other	48	77	87	96	87	94	94	120
Computer sciences	388	437	513	645	649	667	822	845
Earth, atmospheric, and ocean sciences	132	171	185	198	247	210	188	194
Atmospheric	5	3	7	20	16	11	11	10
Earth	70	89	93	91	115	79	80	74
Ocean	23	25	33	21	43	28	32	36
Other	34	54	52	66	73	92	65	74
Mathematics/statistics	231	241	226	208	225	219	208	248
Mathematics/applied mathematics	184	214	198	183	186	187	167	195
Statistics	47	27	28	25	39	32	41	53
Physical sciences	236	298	244	312	291	284	320	364
Astronomy	9	12	6	7	15	6	13	13
Chemistry	174	219	168	236	183	170	197	202
Physics	50	65	66	64	77	75	70	117
Other	3	2	4	5	16	33	40	32
Psychology	1,560	2,373	2,415	2,380	2,402	2,582	2,689	2,463
Clinical	316	329	347	402	378	445	459	621
General	533	553	541	505	593	606	691	739
Nonclinical	711	1,491	1,527	1,473	1,431	1,531	1,539	1,103
Social sciences	1,419	1,844	2,041	1,984	2,049	2,073	2,488	2,731
Agricultural economics	17	19	10	17	21	13	14	24
Anthropology (cultural and social)	169	188	177	172	194	236	293	311

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Economics	80	94	90	87	127	99	146	170
Geography	59	60	64	65	88	74	85	76
History and philosophy of science	0	4	5	11	4	6	8	10
Linguistics	56	94	81	103	74	72	109	91
Political science and public administration	651	857	987	768	750	727	884	1,015
Sociology	146	201	168	193	196	207	247	217
Other	241	327	459	568	595	639	702	817
Engineering	702	761	777	864	752	763	824	900
Aerospace	9	9	12	13	12	18	15	15
Agricultural	5	1	2	17	8	12	13	10
Biomedical	11	24	11	22	34	32	22	66
Chemical	53	52	47	51	54	63	66	46
Civil	130	160	183	146	163	152	128	155
Electrical	187	184	192	276	224	203	276	286
Engineering science/physics	4	6	12	4	6	12	17	23
Industrial/manufacturing	138	164	136	125	105	107	116	112
Mechanical	99	79	58	87	58	65	73	66
Metallurgical/materials	32	22	18	44	29	16	13	21
Mining	0	0	6	1	1	0	0	0
Nuclear	3	2	2	1	0	1	1	1
Petroleum	0	1	0	1	1	1	8	8
Other	31	57	98	76	57	81	76	91
Temporary resident								
S&E	25,879	26,162	27,114	28,277	30,037	32,950	36,561	40,408
Sciences	21,035	21,126	21,695	22,088	23,430	25,444	27,981	30,695
Agricultural sciences	840	860	842	814	823	826	823	944
Biological sciences	5,554	5,462	5,278	5,144	5,473	5,458	5,848	6,347
Anatomy	105	107	86	80	72	84	86	89
Biochemistry	754	744	673	595	633	662	717	756
Biology	898	930	942	975	1,021	977	1,015	1,107
Biometry/epidemiology	287	292	279	256	337	365	426	494
Biophysics	53	58	52	45	45	43	55	75
Botany	313	312	272	286	301	283	287	286
Cell/molecular biology	386	374	398	394	412	456	540	587
Ecology	73	61	66	62	72	74	85	84
Entomology/parasitology	106	105	98	85	80	84	85	85
Genetics	161	137	153	179	195	170	180	198
Microbiology, immunology, and virology	571	523	487	453	464	482	473	544
Nutrition	729	735	709	696	706	686	728	764
Pathology	138	140	135	125	133	126	132	136
Pharmacology	300	252	279	269	282	279	319	350
Physiology	221	215	184	169	184	188	190	213
Zoology	111	93	94	75	78	68	94	99
Other	348	384	371	400	458	431	436	480
Computer sciences	2,419	2,596	3,061	3,683	4,225	5,133	6,635	7,552
Earth, atmospheric, and ocean sciences	877	797	772	719	763	857	896	976
Atmospheric	85	86	83	98	88	105	102	103
Earth	381	333	319	290	294	331	355	383
Ocean	213	169	167	164	182	184	202	206
Other	198	209	203	167	199	237	237	284
Mathematics/statistics	1,689	1,656	1,662	1,699	1,783	2,061	2,111	2,336
Mathematics/applied mathematics	1,301	1,220	1,227	1,270	1,332	1,495	1,466	1,519
Statistics	388	436	435	429	451	566	645	817
Physical sciences	2,969	3,035	3,041	3,011	2,920	3,053	3,260	3,422
Astronomy	49	53	49	39	49	53	70	74
Chemistry	2,192	2,246	2,228	2,185	2,123	2,140	2,263	2,348

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Physics	711	715	739	763	718	829	904	966
Other	17	21	25	24	30	31	23	34
Psychology	1,402	1,230	1,265	1,258	1,388	1,449	1,507	1,737
Clinical	242	197	203	228	250	280	306	331
General	423	387	388	379	386	435	496	603
Nonclinical	737	646	674	651	752	734	705	803
Social sciences	5,285	5,490	5,774	5,760	6,055	6,607	6,901	7,381
Agricultural economics	275	303	269	274	290	322	376	412
Anthropology (cultural and social)	393	343	362	374	387	448	461	421
Economics	1,448	1,592	1,648	1,645	1,656	1,780	1,936	2,150
Geography	172	177	164	197	209	237	243	290
History and philosophy of science	14	13	15	21	23	18	30	25
Linguistics	587	577	620	629	656	600	614	632
Political science and public administration	1,190	1,297	1,355	1,359	1,424	1,641	1,796	1,910
Sociology	646	587	548	583	598	665	719	786
Other	560	601	793	678	812	896	726	755
Engineering	4,844	5,036	5,419	6,189	6,607	7,506	8,580	9,713
Aerospace	97	95	106	144	158	168	187	203
Agricultural	100	101	102	90	102	101	95	102
Biomedical	175	164	164	180	194	260	292	370
Chemical	475	522	587	644	668	713	814	831
Civil	901	967	983	1,049	1,056	1,202	1,363	1,536
Electrical	1,416	1,518	1,658	1,998	2,286	2,634	3,070	3,628
Engineering science/physics	84	69	79	69	111	104	147	154
Industrial/manufacturing	559	517	550	577	583	656	811	917
Mechanical	454	453	492	613	609	647	768	814
Metallurgical/materials	317	332	374	416	453	466	460	551
Mining	15	15	13	8	4	12	14	4
Nuclear	50	45	48	43	46	57	61	69
Petroleum	36	44	44	59	40	65	47	52
Other	165	194	219	299	297	421	451	482

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994–2001.

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
S&E	272,021	262,248	253,499	245,608	241,406	242,832	243,882	251,848
Sciences	177,047	173,060	168,529	163,180	160,356	161,028	160,010	164,569
Agricultural sciences	7,927	7,963	7,525	7,291	7,125	7,078	6,753	6,709
Biological sciences	29,896	29,829	29,289	28,427	27,915	27,442	26,576	26,730
Anatomy	525	517	552	543	509	470	488	448
Biochemistry	3,238	3,148	2,987	2,926	2,919	2,835	2,739	2,694
Biology	7,460	7,377	7,482	7,359	7,064	6,846	6,401	6,185
Biometry/epidemiology	1,124	1,139	1,227	1,119	1,352	1,287	1,279	1,271
Biophysics	576	604	589	532	528	497	516	628
Botany	1,584	1,465	1,394	1,283	1,210	1,168	1,077	1,098
Cell/molecular biology	2,067	2,146	2,128	2,152	2,154	2,192	2,245	2,322
Ecology	821	906	847	838	832	817	838	888
Entomology/parasitology	846	827	810	751	754	739	662	690
Genetics	787	818	828	801	735	760	737	792
Microbiology, immunology, and virology	2,604	2,569	2,480	2,409	2,402	2,365	2,381	2,303
Nutrition	1,273	1,296	1,238	1,144	1,073	1,077	1,034	993
Pathology	925	890	847	842	776	776	701	748
Pharmacology	1,487	1,399	1,372	1,368	1,405	1,414	1,444	1,446
Physiology	1,392	1,482	1,396	1,364	1,265	1,185	1,130	1,056
Zoology	1,184	1,175	1,065	947	910	872	821	763
Other	2,003	2,071	2,047	2,049	2,027	2,142	2,083	2,405
Computer sciences	26,071	25,325	25,829	26,110	27,225	29,990	33,431	36,902
Earth, atmospheric, and ocean sciences	10,638	10,282	9,736	9,132	8,690	8,358	8,189	7,949
Atmospheric	867	835	852	829	731	671	695	626
Earth	5,490	5,299	4,984	4,663	4,372	4,237	4,142	4,061
Ocean	1,755	1,616	1,545	1,424	1,400	1,402	1,401	1,330
Other	2,526	2,532	2,355	2,216	2,187	2,048	1,951	1,932
Mathematics/statistics	13,042	12,246	11,789	10,851	10,497	10,214	9,865	10,386
Mathematics/applied mathematics	11,055	10,317	9,962	9,244	8,932	8,659	8,310	8,766
Statistics	1,987	1,929	1,827	1,607	1,565	1,555	1,555	1,620
Physical sciences	25,299	24,314	23,288	22,257	21,822	21,776	21,335	21,656
Astronomy	750	689	647	570	590	607	621	651
Chemistry	12,958	12,742	12,495	12,052	11,918	11,799	11,415	11,452
Physics	11,254	10,590	9,919	9,403	9,029	8,993	8,930	9,219
Other	337	293	227	232	285	377	369	334
Psychology	16,416	15,877	15,375	15,507	15,095	14,494	13,674	13,215
Clinical	3,686	3,587	3,700	3,786	3,560	3,513	3,205	3,084
General	5,987	5,641	5,186	5,372	5,251	4,851	4,638	4,584
Nonclinical	6,743	6,649	6,489	6,349	6,284	6,130	5,831	5,547
Social sciences	47,758	47,224	45,698	43,605	41,987	41,676	40,187	41,022
Agricultural economics	1,541	1,555	1,407	1,355	1,315	1,299	1,290	1,326
Anthropology (cultural and social)	3,072	3,140	3,087	3,059	3,021	2,989	2,945	2,929
Economics	9,120	8,797	8,297	7,585	7,237	7,063	7,005	7,358
Geography	2,904	2,786	2,770	2,662	2,663	2,547	2,413	2,490
History and philosophy of science	247	262	257	281	315	345	313	327
Linguistics	1,213	1,194	1,133	1,051	982	966	930	951
Political science and public administration	18,733	18,348	17,620	16,679	15,867	15,806	15,235	15,332
Sociology	3,758	3,781	3,640	3,591	3,362	3,227	3,085	3,066
Other	7,170	7,361	7,487	7,342	7,225	7,434	6,971	7,243
Engineering	94,974	89,188	84,970	82,428	81,050	81,804	83,872	87,279
Aerospace	3,357	2,992	2,856	2,712	2,755	2,926	2,938	3,000
Agricultural	861	835	802	723	682	683	631	623
Biomedical	2,053	2,006	1,999	2,021	2,035	2,117	2,171	2,352
Chemical	6,110	5,885	5,757	5,568	5,366	5,150	5,212	5,084
Civil	15,714	14,986	14,228	13,029	12,415	12,069	12,208	12,125
Electrical	28,918	26,633	25,580	26,110	26,382	26,409	27,967	29,715

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Engineering science/physics	1,783	1,658	1,456	1,369	1,370	1,308	1,290	1,435
Industrial/manufacturing	11,135	10,652	9,906	9,301	8,769	9,144	9,519	10,132
Mechanical	15,938	14,686	13,873	13,266	12,934	13,168	13,604	13,892
Metallurgical/materials	4,145	3,882	3,670	3,571	3,550	3,397	3,336	3,548
Mining	374	331	317	285	249	273	241	204
Nuclear	1,093	1,009	827	725	687	686	636	644
Petroleum	565	539	502	484	516	560	540	588
Other	2,928	3,094	3,197	3,264	3,340	3,914	3,579	3,937
U.S. citizen/permanent resident								
S&E	195,784	189,907	182,508	174,924	169,471	165,892	158,605	158,958
Sciences	132,972	131,167	127,175	122,813	119,603	118,085	112,909	113,876
Agricultural sciences	5,646	5,744	5,437	5,399	5,365	5,430	5,216	5,150
Biological sciences	22,661	23,101	23,107	22,425	21,985	21,682	20,660	20,692
Anatomy	401	380	426	412	391	360	364	328
Biochemistry	2,173	2,190	2,135	2,110	2,099	2,042	1,861	1,871
Biology	6,375	6,330	6,454	6,297	6,005	5,831	5,391	5,146
Biometry/epidemiology	810	853	943	864	1,012	942	919	914
Biophysics	418	454	466	406	407	386	367	442
Botany	1,075	995	959	877	838	804	737	772
Cell/molecular biology	1,565	1,674	1,683	1,700	1,704	1,791	1,803	1,832
Ecology	720	805	751	731	733	717	739	780
Entomology/parasitology	588	559	590	546	543	521	467	500
Genetics	586	602	594	562	536	551	541	574
Microbiology, immunology, and virology	1,871	1,907	1,904	1,883	1,906	1,904	1,915	1,843
Nutrition	750	777	786	731	708	699	651	597
Pathology	700	688	652	673	621	607	530	591
Pharmacology	1,134	1,104	1,078	1,084	1,111	1,124	1,139	1,148
Physiology	1,020	1,169	1,132	1,110	1,011	919	874	838
Zoology	994	1,023	935	831	798	781	721	638
Other	1,481	1,591	1,619	1,608	1,562	1,703	1,641	1,878
Computer sciences	17,428	17,126	17,043	16,876	17,028	17,968	17,926	18,705
Earth, atmospheric, and ocean sciences	8,251	8,132	7,742	7,336	6,954	6,695	6,393	6,164
Atmospheric	687	655	652	636	564	502	493	455
Earth	4,122	4,089	3,846	3,660	3,422	3,344	3,195	3,099
Ocean	1,246	1,164	1,155	1,081	1,049	1,070	1,077	1,022
Other	2,196	2,224	2,089	1,959	1,919	1,779	1,628	1,588
Mathematics/statistics	8,668	8,093	7,690	7,006	6,859	6,348	5,942	6,252
Mathematics/applied mathematics	7,400	6,845	6,493	6,008	5,884	5,494	5,122	5,438
Statistics	1,268	1,248	1,197	998	975	854	820	814
Physical sciences	16,559	15,940	15,151	14,373	14,004	13,697	13,032	13,085
Astronomy	537	510	480	424	426	421	420	442
Chemistry	8,738	8,574	8,448	8,125	8,016	7,854	7,522	7,414
Physics	7,018	6,625	6,028	5,627	5,317	5,093	4,776	4,955
Other	266	231	195	197	245	329	314	274
Psychology	15,475	15,020	14,667	14,757	14,297	13,704	12,921	12,439
Clinical	3,549	3,455	3,599	3,679	3,447	3,397	3,121	2,990
General	5,616	5,298	4,911	5,084	4,942	4,566	4,326	4,259
Nonclinical	6,310	6,267	6,157	5,994	5,908	5,741	5,474	5,190
Social sciences	38,284	38,011	36,338	34,641	33,111	32,561	30,819	31,389
Agricultural economics	876	859	776	709	701	696	652	686
Anthropology (cultural and social)	2,678	2,789	2,759	2,731	2,669	2,614	2,583	2,581
Economics	5,291	5,001	4,424	3,847	3,653	3,310	3,161	3,261
Geography	2,576	2,465	2,452	2,335	2,313	2,186	2,032	2,058
History and philosophy of science	205	229	222	235	271	304	274	282
Linguistics	788	774	751	698	615	604	584	621

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Political science and public administration	16,510	16,267	15,432	14,612	13,739	13,528	12,879	12,990
Sociology	3,069	3,160	3,057	3,013	2,851	2,716	2,558	2,546
Other	6,291	6,467	6,465	6,461	6,299	6,603	6,096	6,364
Engineering	62,812	58,740	55,333	52,111	49,868	47,807	45,696	45,082
Aerospace	2,215	1,901	1,689	1,538	1,496	1,562	1,612	1,599
Agricultural	467	453	432	393	378	376	340	315
Biomedical	1,406	1,433	1,458	1,491	1,501	1,510	1,503	1,588
Chemical	3,558	3,438	3,457	3,348	3,149	2,849	2,731	2,502
Civil	10,657	10,294	9,946	8,975	8,509	7,846	7,457	7,118
Electrical	18,926	16,934	15,868	15,463	14,867	13,943	13,239	13,370
Engineering science/physics	1,244	1,208	1,042	990	929	878	760	845
Industrial/manufacturing	8,106	7,817	7,130	6,537	6,000	6,070	5,892	5,726
Mechanical	10,571	9,681	8,882	8,185	7,893	7,619	7,466	7,165
Metallurgical/materials	2,488	2,287	2,124	2,020	1,993	1,820	1,684	1,763
Mining	197	175	196	168	177	176	123	104
Nuclear	731	674	565	465	439	411	362	357
Petroleum	217	213	185	131	108	131	225	227
Other	2,029	2,232	2,359	2,407	2,429	2,616	2,302	2,403
White								
S&E	153,563	146,003	139,314	131,482	125,718	121,846	114,191	113,079
Sciences	106,801	102,946	98,845	93,660	89,786	87,647	82,552	82,320
Agricultural sciences	5,026	5,022	4,767	4,662	4,645	4,741	4,506	4,416
Biological sciences	18,414	18,345	18,247	17,434	16,971	16,579	15,655	15,421
Anatomy	304	294	336	311	295	273	272	255
Biochemistry	1,717	1,673	1,612	1,581	1,598	1,507	1,408	1,356
Biology	5,133	4,921	5,076	4,872	4,636	4,470	4,102	3,916
Biometry/epidemiology	644	635	683	597	704	651	630	623
Biophysics	331	338	338	289	266	266	252	292
Botany	921	875	821	743	711	685	622	630
Cell/molecular biology	1,292	1,327	1,352	1,347	1,310	1,363	1,315	1,304
Ecology	656	712	660	625	645	648	645	684
Entomology/parasitology	517	508	514	478	487	474	423	423
Genetics	495	493	476	453	422	391	382	409
Microbiology, immunology, and virology	1,522	1,524	1,487	1,450	1,467	1,404	1,409	1,305
Nutrition	578	620	605	579	547	543	494	436
Pathology	537	546	516	513	460	436	380	410
Pharmacology	904	845	863	857	834	852	866	858
Physiology	772	863	838	789	728	635	585	570
Zoology	901	928	860	756	695	712	658	574
Other	1,190	1,243	1,210	1,194	1,166	1,269	1,212	1,376
Computer sciences	12,483	11,690	11,439	10,919	10,750	10,889	10,916	11,281
Earth, atmospheric, and ocean sciences	7,362	7,200	6,820	6,363	6,033	5,873	5,613	5,370
Atmospheric	608	571	591	540	493	441	431	391
Earth	3,741	3,670	3,440	3,218	3,023	2,986	2,851	2,760
Ocean	1,089	1,007	980	934	903	930	951	872
Other	1,924	1,952	1,809	1,671	1,614	1,516	1,380	1,347
Mathematics/statistics	6,822	6,228	5,906	5,316	5,057	4,798	4,358	4,588
Mathematics/applied mathematics	5,790	5,216	4,959	4,516	4,313	4,129	3,732	3,965
Statistics	1,032	1,012	947	800	744	669	626	623
Physical sciences	13,753	13,004	12,386	11,587	11,048	10,872	10,221	10,077
Astronomy	480	435	424	377	362	365	360	373
Chemistry	7,179	6,950	6,865	6,492	6,308	6,212	5,900	5,798
Physics	5,865	5,417	4,925	4,551	4,208	4,101	3,773	3,731
Other	229	202	172	167	170	194	188	175

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Psychology	12,712	11,983	11,574	11,316	10,915	10,222	9,423	9,001
Clinical	2,960	2,839	2,957	2,924	2,736	2,635	2,342	2,202
General	4,545	4,239	3,893	3,959	3,788	3,480	3,224	3,113
Nonclinical	5,207	4,905	4,724	4,433	4,391	4,107	3,857	3,686
Social sciences	30,229	29,474	27,706	26,063	24,367	23,673	21,860	22,166
Agricultural economics	748	697	644	591	565	572	535	557
Anthropology (cultural and social)	2,285	2,333	2,298	2,277	2,190	2,130	2,056	2,042
Economics	4,089	3,903	3,360	2,850	2,601	2,445	2,243	2,273
Geography	2,263	2,155	2,129	2,036	1,972	1,889	1,756	1,776
History and philosophy of science	192	205	193	183	231	261	228	232
Linguistics	643	630	618	523	470	474	436	463
Political science and public administration	12,915	12,406	11,513	10,740	9,881	9,560	8,876	8,979
Sociology	2,259	2,276	2,187	2,139	1,946	1,798	1,689	1,693
Other	4,835	4,869	4,764	4,724	4,511	4,544	4,041	4,151
Engineering	46,762	43,057	40,469	37,822	35,932	34,199	31,639	30,759
Aerospace	1,812	1,564	1,379	1,257	1,216	1,239	1,233	1,237
Agricultural	397	375	341	303	300	310	282	258
Biomedical	1,078	1,097	1,109	1,095	1,140	1,144	1,089	1,058
Chemical	2,807	2,724	2,689	2,623	2,420	2,162	1,977	1,807
Civil	8,499	8,033	7,575	6,896	6,459	5,990	5,675	5,365
Electrical	12,796	11,175	10,425	9,913	9,468	8,744	7,958	7,823
Engineering science/physics	1,005	936	788	739	693	650	539	579
Industrial/manufacturing	6,050	5,626	5,320	4,953	4,492	4,446	4,211	4,093
Mechanical	7,939	7,241	6,695	6,217	5,866	5,742	5,358	5,174
Metallurgical/materials	2,001	1,829	1,714	1,519	1,573	1,492	1,325	1,390
Mining	153	127	134	118	114	129	104	86
Nuclear	618	596	487	404	378	358	313	300
Petroleum	156	146	131	96	92	111	95	102
Other	1,451	1,588	1,682	1,689	1,721	1,682	1,480	1,487
Asian/Pacific Islander								
S&E	17,151	16,371	15,946	15,682	15,895	16,048	15,327	15,997
Sciences	9,183	9,134	9,288	9,331	9,717	9,896	9,134	9,559
Agricultural sciences	171	151	143	164	155	139	109	112
Biological sciences	2,021	2,165	2,255	2,166	2,093	2,097	1,991	2,183
Anatomy	53	45	57	51	45	46	56	39
Biochemistry	290	318	328	306	283	306	228	266
Biology	436	398	426	411	363	355	350	338
Biometry/epidemiology	78	103	127	114	111	113	125	125
Biophysics	68	78	82	65	72	71	70	97
Botany	65	58	52	39	39	29	25	42
Cell/molecular biology	164	202	196	179	212	212	239	250
Ecology	12	17	18	21	21	18	16	18
Entomology/parasitology	27	16	24	24	20	9	9	27
Genetics	53	56	58	65	61	79	53	74
Microbiology, immunology, and virology	190	207	219	222	210	196	196	235
Nutrition	64	64	84	59	57	56	57	53
Pathology	93	95	75	85	84	94	82	90
Pharmacology	118	143	118	116	150	146	138	155
Physiology	131	203	203	212	168	170	164	155
Zoology	35	35	32	32	31	21	13	17
Other	144	127	156	165	166	176	170	202
Computer sciences	2,689	2,706	2,834	2,978	3,299	3,834	3,458	3,624
Earth, atmospheric, and ocean sciences	294	260	249	253	238	208	179	179
Atmospheric	46	50	36	36	38	33	25	23
Earth	131	103	96	118	96	78	72	84

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Ocean	41	51	48	35	36	31	29	21
Other	76	56	69	64	68	66	53	51
Mathematics/statistics	735	669	701	622	704	565	544	558
Mathematics/applied mathematics	615	549	546	499	570	471	448	480
Statistics	120	120	155	123	134	94	96	78
Physical sciences	1,253	1,159	1,097	1,044	1,150	1,046	1,018	1,021
Astronomy	21	22	23	22	17	18	19	21
Chemistry	677	639	631	628	694	638	657	629
Physics	532	488	434	381	432	373	333	361
Other	23	10	9	13	7	17	9	10
Psychology	435	416	465	510	551	536	533	539
Clinical	126	112	116	125	127	126	116	108
General	157	147	161	155	189	172	193	180
Nonclinical	152	157	188	230	235	238	224	251
Social sciences	1,585	1,608	1,544	1,594	1,527	1,471	1,302	1,343
Agricultural economics	32	39	28	27	29	35	17	14
Anthropology (cultural and social)	75	78	87	74	74	73	67	67
Economics	428	366	332	350	386	357	275	297
Geography	59	61	60	58	42	47	35	42
History and philosophy of science	4	7	10	15	13	11	11	11
Linguistics	61	59	55	62	54	34	28	48
Political science and public administration	546	603	541	611	548	529	527	515
Sociology	147	169	172	141	143	144	119	119
Other	233	226	259	256	238	241	223	230
Engineering	7,968	7,237	6,658	6,351	6,178	6,152	6,193	6,438
Aerospace	200	162	140	137	119	132	180	169
Agricultural	42	31	45	32	30	26	19	23
Biomedical	175	208	201	228	182	203	236	263
Chemical	384	337	345	361	321	310	379	403
Civil	997	957	903	760	791	615	524	507
Electrical	3,419	3,057	2,872	2,796	2,730	2,784	2,689	2,945
Engineering science/physics	141	146	121	157	143	127	84	98
Industrial/manufacturing	703	690	574	563	487	586	564	501
Mechanical	1,244	1,044	910	804	835	829	975	892
Metallurgical/materials	263	237	213	218	197	155	173	166
Mining	26	32	16	36	44	40	10	11
Nuclear	64	38	39	26	28	16	19	19
Petroleum	30	38	39	14	3	10	37	35
Other	280	260	240	219	268	319	304	406
Black								
S&E	8,046	8,210	8,247	8,329	8,320	8,587	8,362	8,482
Sciences	6,079	6,253	6,292	6,366	6,378	6,598	6,394	6,544
Agricultural sciences	119	151	131	104	149	135	118	109
Biological sciences	668	690	721	777	783	781	774	805
Anatomy	11	15	12	20	18	14	13	9
Biochemistry	57	50	51	63	67	64	63	53
Biology	238	260	274	280	260	262	244	248
Biometry/epidemiology	37	42	51	56	59	54	42	46
Biophysics	12	15	12	10	10	9	9	10
Botany	28	11	22	32	29	32	28	27
Cell/molecular biology	30	34	38	48	53	47	55	60
Ecology	6	7	10	6	9	11	13	13
Entomology/parasitology	10	4	6	6	5	9	6	9
Genetics	12	10	12	13	14	20	25	23
Microbiology, immunology, and virology	47	50	62	72	61	62	68	57
Nutrition	32	36	38	38	44	42	41	46

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Pathology	11	7	7	9	14	14	12	18
Pharmacology	31	37	38	41	51	55	55	58
Physiology	41	31	30	30	37	27	42	42
Zoology	9	9	5	4	5	5	5	5
Other	56	72	53	49	47	54	53	81
Computer sciences	696	652	716	765	764	824	855	953
Earth, atmospheric, and ocean sciences	117	116	115	105	103	112	120	125
Atmospheric	10	12	8	8	5	3	9	12
Earth	31	40	41	36	35	31	32	32
Ocean	26	18	19	11	10	14	14	16
Other	50	46	47	50	53	64	65	65
Mathematics/statistics	343	385	368	347	339	324	294	320
Mathematics/applied mathematics	309	343	333	321	307	295	265	284
Statistics	34	42	35	26	32	29	29	36
Physical sciences	497	529	550	508	481	501	493	466
Astronomy	4	6	7	6	6	6	5	8
Chemistry	298	326	336	319	303	315	308	290
Physics	191	187	202	174	159	164	168	162
Other	4	10	5	9	13	16	12	6
Psychology	851	817	808	908	887	915	883	947
Clinical	145	138	147	162	165	165	163	148
General	367	357	342	420	370	353	329	394
Nonclinical	339	322	319	326	352	397	391	405
Social sciences	2,788	2,913	2,883	2,852	2,872	3,006	2,857	2,819
Agricultural economics	42	36	34	29	45	49	42	41
Anthropology (cultural and social)	67	70	84	79	82	82	80	58
Economics	249	250	212	197	191	158	168	163
Geography	75	61	74	47	65	48	46	61
History and philosophy of science	4	7	7	6	8	7	8	7
Linguistics	12	13	12	15	14	13	13	15
Political science and public administration	1,396	1,476	1,440	1,445	1,456	1,568	1,454	1,467
Sociology	357	356	361	384	387	373	334	314
Other	586	644	659	650	624	708	712	693
Engineering	1,967	1,957	1,955	1,963	1,942	1,989	1,968	1,938
Aerospace	54	42	39	28	27	44	49	41
Agricultural	11	14	11	14	17	17	13	10
Biomedical	29	30	38	34	42	54	55	59
Chemical	78	85	94	85	105	68	91	78
Civil	288	313	330	299	277	277	273	273
Electrical	670	634	610	678	679	685	629	622
Engineering science/physics	34	28	28	31	32	28	21	23
Industrial/manufacturing	309	313	294	270	257	309	321	349
Mechanical	324	319	327	324	308	287	295	273
Metallurgical/materials	55	53	57	68	44	49	51	61
Mining	1	2	0	0	1	1	4	1
Nuclear	19	17	7	12	9	7	6	7
Petroleum	4	3	1	5	5	5	7	3
Other	91	104	119	115	139	158	153	138
Hispanic								
S&E	7,194	7,400	7,647	7,695	7,840	8,204	8,281	8,529
Sciences	4,911	5,204	5,380	5,522	5,627	5,982	6,000	6,172
Agricultural sciences	144	155	206	246	210	209	223	211
Biological sciences	766	851	850	899	924	967	962	1,007
Anatomy	13	12	10	8	11	16	14	14
Biochemistry	67	63	57	71	72	82	73	87
Biology	261	311	300	325	315	318	331	313

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Biometry/epidemiology	31	45	44	40	49	47	54	45
Biophysics	6	10	11	13	13	15	11	17
Botany	33	19	34	31	27	22	20	23
Cell/molecular biology	50	59	58	59	62	75	68	83
Ecology	23	23	26	27	23	15	18	18
Entomology/parasitology	15	15	28	26	18	16	18	21
Genetics	18	21	17	17	24	24	24	24
Microbiology, immunology, and virology	58	65	70	69	84	94	89	100
Nutrition	24	25	27	30	27	31	25	28
Pathology	22	24	18	19	19	28	25	31
Pharmacology	39	32	33	42	43	40	50	51
Physiology	33	39	27	33	43	44	39	34
Zoology	26	27	21	17	18	21	16	16
Other	47	61	69	72	76	79	87	102
Computer sciences	471	502	523	513	559	659	623	656
Earth, atmospheric, and ocean sciences	212	223	230	236	202	200	186	196
Atmospheric	11	8	9	9	11	4	8	8
Earth	86	99	97	102	83	84	80	77
Ocean	50	54	59	59	48	62	54	72
Other	65	62	65	66	60	50	44	39
Mathematics/statistics	241	248	266	254	276	270	310	329
Mathematics/applied mathematics	221	233	237	234	251	241	277	302
Statistics	20	15	29	20	25	29	33	27
Physical sciences	444	469	455	499	525	549	509	539
Astronomy	14	14	10	9	10	10	14	12
Chemistry	254	263	269	288	315	329	315	337
Physics	173	186	172	197	183	188	164	181
Other	3	6	4	5	17	22	16	9
Psychology	705	762	807	860	881	958	1,041	1,050
Clinical	161	194	208	245	261	260	323	333
General	259	258	267	277	276	278	265	281
Nonclinical	285	310	332	338	344	420	453	436
Social sciences	1,928	1,994	2,043	2,015	2,050	2,170	2,146	2,184
Agricultural economics	32	34	39	32	21	19	23	22
Anthropology (cultural and social)	120	143	142	143	149	129	148	159
Economics	256	262	210	185	178	159	160	204
Geography	72	62	60	60	64	64	57	59
History and philosophy of science	4	3	6	8	8	14	11	12
Linguistics	38	30	39	51	33	35	39	33
Political science and public administration	878	910	928	886	902	979	1,010	913
Sociology	179	187	196	213	243	262	234	241
Other	349	363	423	437	452	509	464	541
Engineering	2,283	2,196	2,267	2,173	2,213	2,222	2,281	2,357
Aerospace	67	54	53	63	67	70	67	53
Agricultural	8	16	17	12	10	12	11	11
Biomedical	63	46	42	39	53	50	63	69
Chemical	120	133	130	105	114	128	112	108
Civil	396	422	508	488	504	498	541	509
Electrical	730	671	672	689	692	631	618	683
Engineering science/physics	31	24	49	32	30	29	26	29
Industrial/manufacturing	281	280	303	281	247	291	300	302
Mechanical	398	367	323	298	332	336	316	359
Metallurgical/materials	83	65	58	52	54	49	60	54
Mining	2	2	2	6	4	2	1	1

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Nuclear	22	17	18	16	18	23	22	25
Petroleum	14	19	13	8	5	3	43	46
Other	68	80	79	84	83	100	101	108
American Indian/Alaskan Native								
S&E	693	753	768	804	797	745	734	808
Sciences	514	572	577	624	624	570	595	646
Agricultural sciences	21	30	22	34	45	46	34	35
Biological sciences	77	87	93	91	88	80	79	95
Anatomy	0	1	1	1	1	1	3	3
Biochemistry	6	10	10	7	9	2	5	9
Biology	22	23	26	30	24	27	22	27
Biometry/epidemiology	4	3	1	4	2	2	2	2
Biophysics	0	0	0	0	0	0	0	0
Botany	6	3	1	0	1	0	0	4
Cell/molecular biology	6	5	3	2	4	1	2	1
Ecology	2	1	0	2	2	3	2	3
Entomology/parasitology	0	0	1	1	1	0	0	1
Genetics	0	1	3	1	1	1	1	1
Microbiology, immunology, and virology	9	11	8	6	9	11	16	10
Nutrition	2	2	0	1	3	2	1	0
Pathology	3	2	5	8	7	6	5	9
Pharmacology	2	9	5	3	2	4	4	7
Physiology	4	3	6	3	5	3	1	3
Zoology	5	6	12	10	6	4	3	5
Other	6	7	11	12	11	13	12	10
Computer sciences	36	41	40	43	68	51	51	59
Earth, atmospheric, and ocean sciences	25	31	36	47	44	32	33	37
Atmospheric	1	3	2	1	2	2	3	3
Earth	14	12	17	21	18	13	17	17
Ocean	4	6	7	9	9	7	6	6
Other	6	10	10	16	15	10	7	11
Mathematics/statistics	24	43	24	29	16	12	14	22
Mathematics/applied mathematics	23	34	21	27	15	11	13	20
Statistics	1	9	3	2	1	1	1	2
Physical sciences	49	57	42	46	41	40	54	54
Astronomy	2	2	1	0	1	1	1	0
Chemistry	33	30	31	30	28	30	43	39
Physics	13	25	10	15	10	8	9	15
Other	1	0	0	1	2	1	1	0
Psychology	97	93	111	118	87	88	103	83
Clinical	32	32	38	39	28	30	32	23
General	36	25	32	35	25	26	37	24
Nonclinical	29	36	41	44	34	32	34	36
Social sciences	185	190	209	216	235	221	227	261
Agricultural economics	3	3	3	0	2	6	6	4
Anthropology (cultural and social)	34	40	44	44	49	45	49	46
Economics	13	9	9	8	11	4	6	12
Geography	10	14	13	10	8	9	13	18
History and philosophy of science	0	0	0	1	1	1	0	0
Linguistics	3	4	2	3	2	5	5	4
Political science and public administration	69	68	74	69	88	86	85	92
Sociology	21	13	20	26	23	26	19	25
Other	32	39	44	55	51	39	44	60

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Engineering	179	181	191	180	173	175	139	162
Aerospace	4	6	5	3	7	8	6	6
Agricultural	0	0	1	6	2	1	1	1
Biomedical	10	3	5	5	5	7	4	4
Chemical	12	13	23	10	13	11	9	5
Civil	21	32	38	41	31	43	29	29
Electrical	45	46	45	39	25	36	26	39
Engineering science/physics	3	4	3	3	6	5	6	7
Industrial/manufacturing	17	17	18	17	23	23	27	30
Mechanical	44	37	28	27	20	25	19	23
Metallurgical/materials	5	7	7	9	27	5	3	6
Mining	1	0	1	0	0	0	1	0
Nuclear	2	1	2	2	1	1	0	0
Petroleum	2	2	1	1	2	0	1	1
Other	13	13	14	17	11	10	7	11
Other race/ethnicity								
S&E	9,137	11,170	10,586	10,932	10,901	10,462	11,710	12,063
Sciences	5,484	7,058	6,793	7,310	7,471	7,392	8,234	8,635
Agricultural sciences	165	235	168	189	161	160	226	267
Biological sciences	715	963	941	1,058	1,126	1,178	1,199	1,181
Anatomy	20	13	10	21	21	10	6	8
Biochemistry	36	76	77	82	70	81	84	100
Biology	285	417	352	379	407	399	342	304
Biometry/epidemiology	16	25	37	53	87	75	66	73
Biophysics	1	13	23	29	46	25	25	26
Botany	22	29	29	32	31	36	42	46
Cell/molecular biology	23	47	36	65	63	93	124	134
Ecology	21	45	37	50	33	22	45	44
Entomology/parasitology	19	16	17	11	12	13	11	19
Genetics	8	21	28	13	14	36	56	43
Microbiology, immunology, and virology	45	50	58	64	75	137	137	136
Nutrition	50	30	32	24	30	25	33	34
Pathology	34	14	31	39	37	29	26	33
Pharmacology	40	38	21	25	31	27	26	19
Physiology	39	30	28	43	30	40	43	34
Zoology	18	18	5	12	43	18	26	21
Other	38	81	120	116	96	112	107	107
Computer sciences	1,053	1,535	1,491	1,658	1,588	1,711	2,023	2,132
Earth, atmospheric, and ocean sciences	241	302	292	332	334	270	262	257
Atmospheric	11	11	6	42	15	19	17	18
Earth	119	165	155	165	167	152	143	129
Ocean	36	28	42	33	43	26	23	35
Other	75	98	89	92	109	73	79	75
Mathematics/statistics	503	520	425	438	467	379	422	435
Mathematics/applied mathematics	442	470	397	411	428	347	387	387
Statistics	61	50	28	27	39	32	35	48
Physical sciences	563	722	621	689	759	689	737	928
Astronomy	16	31	15	10	30	21	21	28
Chemistry	297	366	316	368	368	330	299	321
Physics	244	322	285	309	325	259	329	505
Other	6	3	5	2	36	79	88	74
Psychology	675	949	902	1,045	976	985	938	819
Clinical	125	140	133	184	130	181	145	176
General	252	272	216	238	294	257	278	267
Nonclinical	298	537	553	623	552	547	515	376

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Social sciences	1,569	1,832	1,953	1,901	2,060	2,020	2,427	2,616
Agricultural economics	19	50	28	30	39	15	29	48
Anthropology (cultural and social)	97	125	104	114	125	155	183	209
Economics	256	211	301	257	286	187	309	312
Geography	97	112	116	124	162	129	125	102
History and philosophy of science	1	7	6	22	10	10	16	20
Linguistics	31	38	25	44	42	43	63	58
Political science and public administration	706	804	936	861	864	806	927	1,024
Sociology	106	159	121	110	109	113	163	154
Other	256	326	316	339	423	562	612	689
Engineering	3,653	4,112	3,793	3,622	3,430	3,070	3,476	3,428
Aerospace	78	73	73	50	60	69	77	93
Agricultural	9	17	17	26	19	10	14	12
Biomedical	51	49	63	90	79	52	56	135
Chemical	157	146	176	164	176	170	163	101
Civil	456	537	592	491	447	423	415	435
Electrical	1,266	1,351	1,244	1,348	1,273	1,063	1,319	1,258
Engineering science/physics	30	70	53	28	25	39	84	109
Industrial/manufacturing	746	891	621	453	494	415	469	451
Mechanical	622	673	599	515	532	400	503	444
Metallurgical/materials	81	96	75	154	98	70	72	86
Mining	14	12	43	8	14	4	3	5
Nuclear	6	5	12	5	5	6	2	6
Petroleum	11	5	0	7	1	2	42	40
Other	126	187	225	283	207	347	257	253
Temporary resident								
S&E	76,237	72,341	70,991	70,684	71,935	76,940	85,277	92,890
Sciences	44,075	41,893	41,354	40,367	40,753	42,943	47,101	50,693
Agricultural sciences	2,281	2,219	2,088	1,892	1,760	1,648	1,537	1,559
Biological sciences	7,235	6,728	6,182	6,002	5,930	5,760	5,916	6,038
Anatomy	124	137	126	131	118	110	124	120
Biochemistry	1,065	958	852	816	820	793	878	823
Biology	1,085	1,047	1,028	1,062	1,059	1,015	1,010	1,039
Biometry/epidemiology	314	286	284	255	340	345	360	357
Biophysics	158	150	123	126	121	111	149	186
Botany	509	470	435	406	372	364	340	326
Cell/molecular biology	502	472	445	452	450	401	442	490
Ecology	101	101	96	107	99	100	99	108
Entomology/parasitology	258	268	220	205	211	218	195	190
Genetics	201	216	234	239	199	209	196	218
Microbiology, immunology, and virology	733	662	576	526	496	461	466	460
Nutrition	523	519	452	413	365	378	383	396
Pathology	225	202	195	169	155	169	171	157
Pharmacology	353	295	294	284	294	290	305	298
Physiology	372	313	264	254	254	266	256	218
Zoology	190	152	130	116	112	91	100	125
Other	522	480	428	441	465	439	442	527
Computer sciences	8,643	8,199	8,786	9,234	10,197	12,022	15,505	18,197
Earth, atmospheric, and ocean sciences	2,387	2,150	1,994	1,796	1,736	1,663	1,796	1,785
Atmospheric	180	180	200	193	167	169	202	171
Earth	1,368	1,210	1,138	1,003	950	893	947	962
Ocean	509	452	390	343	351	332	324	308
Other	330	308	266	257	268	269	323	344
Mathematics/statistics	4,374	4,153	4,099	3,845	3,638	3,866	3,923	4,134
Mathematics/applied mathematics	3,655	3,472	3,469	3,236	3,048	3,165	3,188	3,328
Statistics	719	681	630	609	590	701	735	806

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1994–2001

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Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Physical sciences	8,740	8,374	8,137	7,884	7,818	8,079	8,303	8,571
Astronomy	213	179	167	146	164	186	201	209
Chemistry	4,220	4,168	4,047	3,927	3,902	3,945	3,893	4,038
Physics	4,236	3,965	3,891	3,776	3,712	3,900	4,154	4,264
Other	71	62	32	35	40	48	55	60
Psychology	941	857	708	750	798	790	753	776
Clinical	137	132	101	107	113	116	84	94
General	371	343	275	288	309	285	312	325
Nonclinical	433	382	332	355	376	389	357	357
Social sciences	9,474	9,213	9,360	8,964	8,876	9,115	9,368	9,633
Agricultural economics	665	696	631	646	614	603	638	640
Anthropology (cultural and social)	394	351	328	328	352	375	362	348
Economics	3,829	3,796	3,873	3,738	3,584	3,753	3,844	4,097
Geography	328	321	318	327	350	361	381	432
History and philosophy of science	42	33	35	46	44	41	39	45
Linguistics	425	420	382	353	367	362	346	330
Political science and public administration	2,223	2,081	2,188	2,067	2,128	2,278	2,356	2,342
Sociology	689	621	583	578	511	511	527	520
Other	879	894	1,022	881	926	831	875	879
Engineering	32,162	30,448	29,637	30,317	31,182	33,997	38,176	42,197
Aerospace	1,142	1,091	1,167	1,174	1,259	1,364	1,326	1,401
Agricultural	394	382	370	330	304	307	291	308
Biomedical	647	573	541	530	534	607	668	764
Chemical	2,552	2,447	2,300	2,220	2,217	2,301	2,481	2,582
Civil	5,057	4,692	4,282	4,054	3,906	4,223	4,751	5,007
Electrical	9,992	9,699	9,712	10,647	11,515	12,466	14,728	16,345
Engineering science/physics	539	450	414	379	441	430	530	590
Industrial/manufacturing	3,029	2,835	2,776	2,764	2,769	3,074	3,627	4,406
Mechanical	5,367	5,005	4,991	5,081	5,041	5,549	6,138	6,727
Metallurgical/materials	1,657	1,595	1,546	1,551	1,557	1,577	1,652	1,785
Mining	177	156	121	117	72	97	118	100
Nuclear	362	335	262	260	248	275	274	287
Petroleum	348	326	317	353	408	429	315	361
Other	899	862	838	857	911	1,298	1,277	1,534

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994–2001.

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
S&E	78,036	74,362	73,447	73,600	74,373	75,429	78,678	82,520
Sciences	58,265	56,286	55,441	54,752	55,112	54,916	56,220	59,245
Agricultural sciences	2,300	2,239	2,122	2,102	2,249	2,201	2,267	2,324
Biological sciences	11,365	11,407	10,824	11,108	11,385	10,989	11,017	11,705
Anatomy	209	230	237	195	192	171	209	180
Biochemistry	1,032	983	947	998	1,022	896	928	851
Biology	2,742	2,690	2,579	2,687	2,498	2,521	2,292	2,425
Biometry/epidemiology	657	738	671	661	817	786	820	910
Biophysics	149	153	155	133	158	118	126	162
Botany	483	443	443	415	449	404	399	353
Cell/molecular biology	774	739	766	825	889	851	948	962
Ecology	285	308	245	244	256	248	277	348
Entomology/parasitology	206	184	202	194	233	179	185	202
Genetics	345	344	387	436	395	425	378	381
Microbiology, immunology, and virology	899	905	844	864	857	904	825	884
Nutrition	798	857	831	797	940	834	835	906
Pathology	334	296	291	350	279	320	272	320
Pharmacology	533	500	422	458	513	487	546	501
Physiology	649	811	725	633	654	608	565	615
Zoology	343	346	318	317	276	269	240	261
Other	927	880	761	901	957	968	1,172	1,444
Computer sciences	4,756	4,783	4,917	5,018	5,758	6,677	8,452	9,040
Earth, atmospheric, and ocean sciences	3,007	2,801	2,631	2,681	2,859	2,746	2,650	2,794
Atmospheric	224	198	213	224	189	203	222	205
Earth	1,519	1,423	1,326	1,339	1,348	1,296	1,231	1,383
Ocean	519	420	371	410	471	474	479	511
Other	745	760	721	708	851	773	718	695
Mathematics/statistics	3,963	3,578	3,450	3,302	3,334	3,271	3,417	3,686
Mathematics/applied mathematics	3,341	2,904	2,845	2,741	2,721	2,650	2,755	2,892
Statistics	622	674	605	561	613	621	662	794
Physical sciences	6,456	6,129	6,015	6,037	5,932	6,004	5,838	5,995
Astronomy	164	147	157	125	162	171	183	193
Chemistry	3,813	3,708	3,702	3,758	3,682	3,672	3,490	3,635
Physics	2,381	2,188	2,088	2,074	2,046	2,074	2,102	2,102
Other	98	86	68	80	42	87	63	65
Psychology	9,530	9,241	9,140	8,800	8,590	8,305	7,562	7,712
Clinical	2,235	2,092	2,115	2,059	2,001	1,992	1,829	1,726
General	3,483	3,372	3,178	3,187	3,060	2,745	2,551	2,678
Nonclinical	3,812	3,777	3,847	3,554	3,529	3,568	3,182	3,308
Social sciences	16,888	16,108	16,342	15,704	15,005	14,723	15,017	15,989
Agricultural economics	533	492	436	467	417	482	455	496
Anthropology (cultural and social)	1,331	1,247	1,252	1,196	1,219	1,193	1,160	1,119
Economics	2,793	2,605	2,466	2,368	2,352	2,355	2,525	2,562
Geography	959	836	870	914	805	830	789	870
History and philosophy of science	74	70	58	79	89	91	78	72
Linguistics	612	594	620	579	493	422	454	495
Political science and public administration	6,131	5,916	5,842	5,264	4,953	4,844	5,153	5,600
Sociology	1,548	1,503	1,505	1,525	1,428	1,307	1,303	1,425
Other	2,907	2,845	3,293	3,312	3,249	3,199	3,100	3,350
Engineering	19,771	18,076	18,006	18,848	19,261	20,513	22,458	23,275
Aerospace	793	650	687	735	717	727	775	772
Agricultural	193	177	183	165	155	202	177	187
Biomedical	566	592	572	671	695	734	926	859
Chemical	1,465	1,421	1,478	1,467	1,503	1,491	1,598	1,541
Civil	4,194	3,825	3,845	3,792	3,785	3,726	3,851	3,821
Electrical	5,450	4,974	4,850	5,505	5,685	6,306	7,335	7,828

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Engineering science/physics	313	275	273	274	308	255	299	339
Industrial/manufacturing	1,731	1,541	1,605	1,549	1,547	1,851	2,021	2,166
Mechanical	3,218	2,832	2,785	2,829	2,923	3,119	3,342	3,583
Metallurgical/materials	858	822	791	870	900	892	1,005	975
Mining	85	53	51	73	44	45	48	40
Nuclear	208	187	182	178	153	150	163	164
Petroleum	100	109	122	121	132	149	149	153
Other	597	618	582	619	714	866	769	847
Female								
S&E	29,804	29,225	29,728	29,990	30,494	31,098	32,200	34,287
Sciences	26,307	25,836	26,167	26,200	26,630	26,845	27,337	29,256
Agricultural sciences	890	896	846	904	1,019	987	1,111	1,163
Biological sciences	5,648	5,682	5,507	5,767	6,062	5,961	6,151	6,700
Anatomy	106	94	108	97	98	82	122	103
Biochemistry	449	445	420	423	463	413	446	434
Biology	1,315	1,307	1,295	1,372	1,297	1,349	1,229	1,365
Biometry/epidemiology	391	415	404	389	510	507	531	610
Biophysics	28	44	36	32	40	41	41	45
Botany	226	215	203	228	241	211	221	192
Cell/molecular biology	353	345	383	406	441	447	498	506
Ecology	131	132	128	129	123	136	152	199
Entomology/parasitology	79	72	72	73	84	64	101	92
Genetics	210	210	230	270	254	261	243	244
Microbiology, immunology, and virology	453	442	425	453	458	487	445	514
Nutrition	603	644	655	630	722	649	654	717
Pathology	162	143	143	181	157	175	169	202
Pharmacology	263	241	217	221	274	270	289	288
Physiology	251	329	286	244	258	251	255	291
Zoology	170	158	149	157	135	126	113	139
Other	458	446	353	462	507	492	642	759
Computer sciences	1,075	1,153	1,223	1,288	1,517	1,797	2,233	2,375
Earth, atmospheric, and ocean sciences	1,109	1,090	1,030	1,076	1,264	1,278	1,211	1,315
Atmospheric	50	50	47	67	49	71	68	87
Earth	489	504	464	475	547	543	513	586
Ocean	214	187	180	191	242	244	254	271
Other	356	349	339	343	426	420	376	371
Mathematics/statistics	1,373	1,241	1,243	1,225	1,238	1,257	1,280	1,442
Mathematics/applied mathematics	1,136	948	991	999	965	961	943	1,030
Statistics	237	293	252	226	273	296	337	412
Physical sciences	1,856	1,775	1,831	1,885	1,724	1,921	1,897	1,919
Astronomy	36	41	49	40	46	46	62	53
Chemistry	1,406	1,331	1,372	1,454	1,294	1,434	1,399	1,390
Physics	378	361	373	355	371	409	408	450
Other	36	42	37	36	13	32	28	26
Psychology	6,536	6,390	6,408	6,230	6,172	6,022	5,609	5,850
Clinical	1,549	1,477	1,516	1,467	1,435	1,485	1,410	1,295
General	2,313	2,251	2,145	2,201	2,140	1,902	1,828	1,972
Nonclinical	2,674	2,662	2,747	2,562	2,597	2,635	2,371	2,583
Social sciences	7,820	7,609	8,079	7,825	7,634	7,622	7,845	8,492
Agricultural economics	196	186	158	166	157	193	195	203
Anthropology (cultural and social)	781	724	783	723	724	734	708	702
Economics	905	840	765	820	847	810	983	936
Geography	341	311	339	349	317	363	323	377
History and philosophy of science	28	23	24	33	38	41	31	31
Linguistics	386	352	415	416	329	275	286	327

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Political science and public administration	2,776	2,806	2,848	2,541	2,418	2,505	2,638	2,973
Sociology	974	912	950	949	922	852	856	953
Other	1,433	1,455	1,797	1,828	1,882	1,849	1,825	1,990
Engineering	3,497	3,389	3,561	3,790	3,864	4,253	4,863	5,031
Aerospace	99	73	86	94	89	96	127	111
Agricultural	41	44	48	57	47	76	64	68
Biomedical	157	182	181	231	222	247	348	315
Chemical	307	322	359	390	386	382	401	400
Civil	1,013	958	988	1,007	1,015	1,066	1,182	1,094
Electrical	694	731	715	824	893	1,079	1,264	1,523
Engineering science/physics	46	37	57	52	68	48	72	71
Industrial/manufacturing	441	352	314	327	313	349	461	438
Mechanical	351	321	379	393	350	390	438	478
Metallurgical/materials	189	193	208	211	251	248	243	262
Mining	11	5	10	16	9	10	11	7
Nuclear	22	27	39	25	29	35	43	40
Petroleum	12	14	15	9	15	21	25	23
Other	114	130	162	154	177	206	184	201
Male								
S&E	48,232	45,137	43,719	43,610	43,879	44,331	46,478	48,233
Sciences	31,958	30,450	29,274	28,552	28,482	28,071	28,883	29,989
Agricultural sciences	1,410	1,343	1,276	1,198	1,230	1,214	1,156	1,161
Biological sciences	5,717	5,725	5,317	5,341	5,323	5,028	4,866	5,005
Anatomy	103	136	129	98	94	89	87	77
Biochemistry	583	538	527	575	559	483	482	417
Biology	1,427	1,383	1,284	1,315	1,201	1,172	1,063	1,060
Biometry/epidemiology	266	323	267	272	307	279	289	300
Biophysics	121	109	119	101	118	77	85	117
Botany	257	228	240	187	208	193	178	161
Cell/molecular biology	421	394	383	419	448	404	450	456
Ecology	154	176	117	115	133	112	125	149
Entomology/parasitology	127	112	130	121	149	115	84	110
Genetics	135	134	157	166	141	164	135	137
Microbiology, immunology, and virology	446	463	419	411	399	417	380	370
Nutrition	195	213	176	167	218	185	181	189
Pathology	172	153	148	169	122	145	103	118
Pharmacology	270	259	205	237	239	217	257	213
Physiology	398	482	439	389	396	357	310	324
Zoology	173	188	169	160	141	143	127	122
Other	469	434	408	439	450	476	530	685
Computer sciences	3,681	3,630	3,694	3,730	4,241	4,880	6,219	6,665
Earth, atmospheric, and ocean sciences	1,898	1,711	1,601	1,605	1,595	1,468	1,439	1,479
Atmospheric	174	148	166	157	140	132	154	118
Earth	1,030	919	862	864	801	753	718	797
Ocean	305	233	191	219	229	230	225	240
Other	389	411	382	365	425	353	342	324
Mathematics/statistics	2,590	2,337	2,207	2,077	2,096	2,014	2,137	2,244
Mathematics/applied mathematics	2,205	1,956	1,854	1,742	1,756	1,689	1,812	1,862
Statistics	385	381	353	335	340	325	325	382
Physical sciences	4,600	4,354	4,184	4,152	4,208	4,083	3,941	4,076
Astronomy	128	106	108	85	116	125	121	140
Chemistry	2,407	2,377	2,330	2,304	2,388	2,238	2,091	2,245
Physics	2,003	1,827	1,715	1,719	1,675	1,665	1,694	1,652
Other	62	44	31	44	29	55	35	39

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1994–2001

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Field and sex	1994	1995	1996	1997	1998	1999	2000	2001
Psychology	2,994	2,851	2,732	2,570	2,418	2,283	1,953	1,862
Clinical	686	615	599	592	566	507	419	431
General	1,170	1,121	1,033	986	920	843	723	706
Nonclinical	1,138	1,115	1,100	992	932	933	811	725
Social sciences	9,068	8,499	8,263	7,879	7,371	7,101	7,172	7,497
Agricultural economics	337	306	278	301	260	289	260	293
Anthropology (cultural and social)	550	523	469	473	495	459	452	417
Economics	1,888	1,765	1,701	1,548	1,505	1,545	1,542	1,626
Geography	618	525	531	565	488	467	466	493
History and philosophy of science	46	47	34	46	51	50	47	41
Linguistics	226	242	205	163	164	147	168	168
Political science and public administration	3,355	3,110	2,994	2,723	2,535	2,339	2,515	2,627
Sociology	574	591	555	576	506	455	447	472
Other	1,474	1,390	1,496	1,484	1,367	1,350	1,275	1,360
Engineering	16,274	14,687	14,445	15,058	15,397	16,260	17,595	18,244
Aerospace	694	577	601	641	628	631	648	661
Agricultural	152	133	135	108	108	126	113	119
Biomedical	409	410	391	440	473	487	578	544
Chemical	1,158	1,099	1,119	1,077	1,117	1,109	1,197	1,141
Civil	3,181	2,867	2,857	2,785	2,770	2,660	2,669	2,727
Electrical	4,756	4,243	4,135	4,681	4,792	5,227	6,071	6,305
Engineering science/physics	267	238	216	222	240	207	227	268
Industrial/manufacturing	1,290	1,189	1,291	1,222	1,234	1,502	1,560	1,728
Mechanical	2,867	2,511	2,406	2,436	2,573	2,729	2,904	3,105
Metallurgical/materials	669	629	583	659	649	644	762	713
Mining	74	48	41	57	35	35	37	33
Nuclear	186	160	143	153	124	115	120	124
Petroleum	88	95	107	112	117	128	124	130
Other	483	488	420	465	537	660	585	646

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994–2001.

TABLE D-5. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2001

Field	All institutions			HBCUs			Black students in HBCUs		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number						Percent		
S&E	21,773	13,291	8,482	3,753	2,443	1,310	17.2	18.4	15.4
Sciences	18,852	12,308	6,544	3,451	2,325	1,126	18.3	18.9	17.2
Agricultural sciences	301	192	109	151	109	42	50.2	56.8	38.5
Biological sciences	2,369	1,564	805	561	395	166	23.7	25.3	20.6
Anatomy	26	17	9	1	0	1	3.8	0.0	11.1
Biochemistry	129	76	53	22	10	12	17.1	13.2	22.6
Biology	755	507	248	259	190	69	34.3	37.5	27.8
Biometry and epidemiology	171	125	46	0	0	0	0.0	0.0	0.0
Biophysics	17	7	10	0	0	0	0.0	0.0	0.0
Botany	48	21	27	21	5	16	43.8	23.8	59.3
Cell and molecular biology	137	77	60	0	0	0	0.0	0.0	0.0
Ecology	26	13	13	0	0	0	0.0	0.0	0.0
Entomology and parasitology	15	6	9	0	0	0	0.0	0.0	0.0
Genetics	54	31	23	19	13	6	35.2	41.9	26.1
Microbiology, immunology, and virology	178	121	57	36	23	13	20.2	19.0	22.8
Nutrition	231	185	46	68	61	7	29.4	33.0	15.2
Pathology	50	32	18	0	0	0	0.0	0.0	0.0
Pharmacology	166	108	58	51	33	18	30.7	30.6	31.0
Physiology	98	56	42	27	20	7	27.6	35.7	16.7
Zoology	10	5	5	0	0	0	0.0	0.0	0.0
Other	258	177	81	57	40	17	22.1	22.6	21.0
Computer sciences	1,726	773	953	202	103	99	11.7	13.3	10.4
Earth, atmospheric, and ocean sciences	227	102	125	60	25	35	26.4	24.5	28.0
Atmospheric	19	7	12	12	4	8	63.2	57.1	66.7
Earth	57	25	32	0	0	0	0.0	0.0	0.0
Ocean	31	15	16	0	0	0	0.0	0.0	0.0
Other	120	55	65	48	21	27	40.0	38.2	41.5
Mathematics and statistics	591	271	320	121	58	63	20.5	21.4	19.7
Mathematics and applied mathematics	526	242	284	121	58	63	23.0	24.0	22.2
Statistics	65	29	36	0	0	0	0.0	0.0	0.0
Physical sciences	879	413	466	170	79	91	19.3	19.1	19.5
Astronomy	12	4	8	0	0	0	0.0	0.0	0.0
Chemistry	631	341	290	106	62	44	16.8	18.2	15.2
Physics	215	53	162	64	17	47	29.8	32.1	29.0
Other	21	15	6	0	0	0	0.0	0.0	0.0
Psychology	4,621	3,674	947	981	768	213	21.2	20.9	22.5
Clinical	751	603	148	0	0	0	0.0	0.0	0.0
Nonclinical	2,146	1,741	405	469	390	79	21.9	22.4	19.5
General	1,724	1,330	394	512	378	134	29.7	28.4	34.0
Social sciences	8,138	5,319	2,819	1,205	788	417	14.8	14.8	14.8
Agricultural economics	76	35	41	24	15	9	31.6	42.9	22.0
Anthropology (cultural and social)	274	216	58	0	0	0	0.0	0.0	0.0
Economics	314	151	163	18	9	9	5.7	6.0	5.5
Geography	114	53	61	0	0	0	0.0	0.0	0.0
History and philosophy of science	16	9	7	1	1	0	6.3	11.1	0.0
Linguistics	47	32	15	0	0	0	0.0	0.0	0.0
Political science and public administration	4,255	2,788	1,467	661	431	230	15.5	15.5	15.7
Sociology	999	685	314	162	111	51	16.2	16.2	16.2
Other	2,043	1,350	693	339	221	118	16.6	16.4	17.0
Engineering	2,921	983	1,938	302	118	184	10.3	12.0	9.5
Aerospace	45	4	41	0	0	0	0.0	0.0	0.0
Agricultural	26	16	10	1	1	0	3.8	6.3	0.0
Biomedical	121	62	59	0	0	0	0.0	0.0	0.0
Chemical	167	89	78	17	11	6	10.2	12.4	7.7

TABLE D-5. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2001

Field	All institutions			HBCUs			Black students in HBCUs		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number						Percent		
Civil	431	158	273	60	21	39	13.9	13.3	14.3
Electrical	813	191	622	41	10	31	5.0	5.2	5.0
Engineering sciences/physics	33	10	23	0	0	0	0.0	0.0	0.0
Industrial/manufacturing	591	242	349	49	28	21	8.3	11.6	6.0
Mechanical	354	81	273	48	17	31	13.6	21.0	11.4
Metallurgical and materials	107	46	61	9	5	4	8.4	10.9	6.6
Mining	1	0	1	0	0	0	0.0	0.0	0.0
Nuclear	13	6	7	0	0	0	0.0	0.0	0.0
Petroleum	4	1	3	0	0	0	0.0	0.0	0.0
Other	215	77	138	77	25	52	35.8	32.5	37.7

HBCUs historically black colleges and universities

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

TABLE D-6. Hispanic U.S.-citizen and permanent-resident S&E graduate students in all institutions and HSIs, by field and sex: 2001

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Field	All institutions			HSIs			Hispanic students in HSIs		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number						Percent		
S&E	22,321	12,656	9,665	7,476	4,620	2,856	33.5	36.5	29.5
Sciences	19,123	11,815	7,308	6,681	4,401	2,280	34.9	37.2	31.2
Agricultural sciences	422	211	211	179	86	93	42.4	40.8	44.1
Biological sciences	2,338	1,331	1,007	604	373	231	25.8	28.0	22.9
Anatomy	22	8	14	7	3	4	31.8	37.5	28.6
Biochemistry	171	84	87	30	15	15	17.5	17.9	17.2
Biology	700	387	313	360	212	148	51.4	54.8	47.3
Biometry and epidemiology	148	103	45	29	26	3	19.6	25.2	6.7
Biophysics	20	3	17	0	0	0	0.0	0.0	0.0
Botany	44	21	23	0	0	0	0.0	0.0	0.0
Cell and molecular biology	180	97	83	9	4	5	5.0	4.1	6.0
Ecology	58	40	18	0	0	0	0.0	0.0	0.0
Entomology and parasitology	39	18	21	0	0	0	0.0	0.0	0.0
Genetics	67	43	24	2	2	0	3.0	4.7	0.0
Microbiology, immunology, and virology	220	120	100	27	16	11	12.3	13.3	11.0
Nutrition	162	134	28	53	42	11	32.7	31.3	39.3
Pathology	67	36	31	2	2	0	3.0	5.6	0.0
Pharmacology	113	62	51	8	5	3	7.1	8.1	5.9
Physiology	60	26	34	8	6	2	13.3	23.1	5.9
Zoology	29	13	16	0	0	0	0.0	0.0	0.0
Other	238	136	102	69	40	29	29.0	29.4	28.4
Computer sciences	901	245	656	134	37	97	14.9	15.1	14.8
Earth, atmospheric, and ocean sciences	397	201	196	126	60	66	31.7	29.9	33.7
Atmospheric	15	7	8	0	0	0	0.0	0.0	0.0
Earth	155	78	77	41	24	17	26.5	30.8	22.1
Ocean	137	65	72	76	35	41	55.5	53.8	56.9
Other	90	51	39	9	1	8	10.0	2.0	20.5
Mathematics and statistics	498	169	329	157	53	104	31.5	31.4	31.6
Mathematics and applied mathematics	458	156	302	149	48	101	32.5	30.8	33.4
Statistics	40	13	27	8	5	3	20.0	38.5	11.1
Physical sciences	896	357	539	341	161	180	38.1	45.1	33.4
Astronomy	17	5	12	1	0	1	5.9	0.0	8.3
Chemistry	629	292	337	242	134	108	38.5	45.9	32.0
Physics	239	58	181	93	27	66	38.9	46.6	36.5
Other	11	2	9	5	0	5	45.5	0.0	55.6
Psychology	4,323	3,273	1,050	1,784	1,355	429	41.3	41.4	40.9
Clinical	1,488	1,155	333	808	633	175	54.3	54.8	52.6
Nonclinical	1,818	1,382	436	685	507	178	37.7	36.7	40.8
General	1,017	736	281	291	215	76	28.6	29.2	27.0
Social sciences	5,010	2,826	2,184	1,558	918	640	31.1	32.5	29.3
Agricultural economics	40	18	22	9	5	4	22.5	27.8	18.2
Anthropology (cultural and social)	383	224	159	30	21	9	7.8	9.4	5.7
Economics	306	102	204	88	38	50	28.8	37.3	24.5
Geography	106	47	59	10	2	8	9.4	4.3	13.6
History and philosophy of science	18	6	12	0	0	0	0.0	0.0	0.0
Linguistics	126	93	33	31	22	9	24.6	23.7	27.3
Political science and public administration	2,171	1,258	913	793	494	299	36.5	39.3	32.7
Sociology	605	364	241	137	81	56	22.6	22.3	23.2
Other	1,255	714	541	460	255	205	36.7	35.7	37.9
Engineering	3,198	841	2,357	795	219	576	24.9	26.0	24.4
Aerospace	70	17	53	0	0	0	0.0	0.0	0.0
Agricultural	27	16	11	0	0	0	0.0	0.0	0.0
Biomedical	101	32	69	7	2	5	6.9	6.3	7.2
Chemical	180	72	108	43	15	28	23.9	20.8	25.9

TABLE D-6. Hispanic U.S.-citizen and permanent-resident S&E graduate students in all institutions and HSIs, by field and sex: 2001

Field	All institutions			HSIs			Hispanic students in HSIs		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number						Percent		
Civil	746	237	509	227	74	153	30.4	31.2	30.1
Electrical	825	142	683	239	44	195	29.0	31.0	28.6
Engineering sciences/physics	40	11	29	0	0	0	0.0	0.0	0.0
Industrial/manufacturing	469	167	302	134	58	76	28.6	34.7	25.2
Mechanical	425	66	359	93	15	78	21.9	22.7	21.7
Metallurgical and materials	80	26	54	8	3	5	10.0	11.5	9.3
Mining	3	2	1	0	0	0	0.0	0.0	0.0
Nuclear	34	9	25	5	1	4	14.7	11.1	16.0
Petroleum	63	17	46	3	1	2	4.8	5.9	4.3
Other	135	27	108	36	6	30	26.7	22.2	27.8

HSIs Hispanic-serving institutions

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

TABLE D-7. Disability status of S&E graduate students, by sex, age, race/ethnicity, enrollment, and citizenship status: 2000

(Percent; standard errors in parentheses)

Sex, age, race/ethnicity, and enrollment and citizenship status	All students	No disability	With disability
All S&E graduate students	100.0 (0.0)	91.7 (0.6)	8.3 (0.6)
Female	47.2 (1.4)	46.6 (1.4)	54.1 (3.8)
Male	52.8 (1.4)	53.4 (1.4)	45.9 (3.8)
Age (years)			
15-23	11.2 (0.8)	11.6 (0.9)	6.5 (1.8)
24-29	45.8 (1.2)	47.0 (1.2)	32.6 (3.2)
39 and older	43.0 (1.2)	41.4 (1.3)	60.9 (3.5)
Race/ethnicity			
White	61.1 (1.3)	59.9 (1.3)	74.1 (3.9)
Asian	19.0 (1.0)	20.3 (1.1)	4.9 (1.7)
Native Hawaiian/Pacific Islander	0.9 (0.3)	1.0 (0.4)	0.0 (0.0)
Black	7.0 (0.7)	7.1 (0.7)	6.2 (1.8)
Hispanic	6.8 (0.7)	6.6 (0.7)	8.3 (3.0)
American Indian/Alaska Native	0.7 (0.2)	0.5 (0.2)	2.6 (1.1)
Other	2.8 (0.4)	2.9 (0.4)	1.4 (0.8)
More than one race	1.8 (0.3)	1.7 (0.3)	2.5 (1.5)
Enrollment status			
Mostly full time	69.3 (1.5)	69.9 (1.6)	63.7 (4.9)
Mostly part time	25.3 (1.5)	25.1 (1.5)	27.4 (4.7)
Mix of full and part time	5.4 (0.8)	5.0 (0.8)	8.9 (3.6)
Citizenship status			
U.S. citizen	75.3 (1.1)	73.8 (1.2)	91.7 (1.9)
Resident alien	3.7 (0.4)	3.7 (0.5)	3.6 (0.9)
Foreign/international student	21.0 (1.1)	22.5 (1.1)	4.7 (1.5)

NOTES: Enrollment status was determined by graduate student responses to the question, *Since you started working on your degree, have you been enrolled mainly as a full-time student or part-time student?* For disability status, those who reported any type of disability at all related to blindness, deafness, a severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more are classified as "with disability."

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2000.

TABLE D-8. Field distribution of graduate student enrollment, by disability status: 2000

(Percent; standard errors in parentheses)

Field	All students	No disability	With disability
Business/management	18.4 (0.8)	18.9 (0.9)	12.9 (1.8)
Education	24.4 (0.8)	24.5 (0.8)	24.0 (2.2)
Engineering/computer sciences/mathematics	8.6 (0.5)	8.7 (0.5)	7.7 (1.4)
Health	14.8 (0.9)	15.0 (0.9)	11.8 (1.8)
Humanities	9.5 (0.8)	9.1 (0.8)	14.9 (1.6)
Law	5.0 (0.5)	5.1 (0.5)	4.1 (0.9)
Life/physical sciences	6.2 (0.3)	6.2 (0.3)	6.6 (1.1)
Social/behavioral sciences	8.2 (0.6)	7.8 (0.6)	12.6 (1.5)
Other	4.9 (0.3)	4.8 (0.3)	5.5 (1.2)

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2000.

TABLE D-9. Enrollment status of S&E graduate students, by field and sex: 2001

Field	All graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
Total S&E	429,492	304,476	125,016	177,644	124,347	53,297	251,848	180,129	71,719
Sciences	319,986	226,904	93,082	155,417	108,156	47,261	164,569	118,748	45,821
Agricultural sciences	11,911	9,202	2,709	5,202	4,120	1,082	6,709	5,082	1,627
Biological sciences	57,826	48,351	9,475	31,096	25,489	5,607	26,730	22,862	3,868
Anatomy	867	806	61	419	384	35	448	422	26
Biochemistry	4,917	4,642	275	2,223	2,096	127	2,694	2,546	148
Biology	13,355	9,791	3,564	7,170	5,122	2,048	6,185	4,669	1,516
Biometry and epidemiology	3,629	2,665	964	2,358	1,735	623	1,271	930	341
Biophysics	893	853	40	265	254	11	628	599	29
Botany	2,182	1,906	276	1,084	943	141	1,098	963	135
Cell and molecular biology	4,768	4,398	370	2,446	2,201	245	2,322	2,197	125
Ecology	1,848	1,374	474	960	727	233	888	647	241
Entomology and parasitology	1,170	989	181	480	418	62	690	571	119
Genetics	1,833	1,735	98	1,041	987	54	792	748	44
Microbiology, immunology, and virology	4,798	4,500	298	2,495	2,346	149	2,303	2,154	149
Nutrition	4,429	3,269	1,160	3,436	2,490	946	993	779	214
Pathology	1,649	1,362	287	901	745	156	748	617	131
Pharmacology	3,052	2,658	394	1,606	1,386	220	1,446	1,272	174
Physiology	1,967	1,827	140	911	841	70	1,056	986	70
Zoology	1,448	1,268	180	685	602	83	763	666	97
Other	5,021	4,308	713	2,616	2,212	404	2,405	2,096	309
Computer sciences	52,196	30,098	22,098	15,294	8,321	6,973	36,902	21,777	15,125
Earth, atmospheric, and ocean sciences	13,841	10,504	3,337	5,892	4,568	1,324	7,949	5,936	2,013
Atmospheric	924	812	112	298	273	25	626	539	87
Earth	6,544	5,222	1,322	2,483	2,039	444	4,061	3,183	878
Ocean	2,585	2,058	527	1,255	1,016	239	1,330	1,042	288
Other	3,788	2,412	1,376	1,856	1,240	616	1,932	1,172	760
Mathematics and statistics	16,663	12,498	4,165	6,277	4,388	1,889	10,386	8,110	2,276
Mathematics and applied mathematics	13,594	10,055	3,539	4,828	3,219	1,609	8,766	6,836	1,930
Statistics	3,069	2,443	626	1,449	1,169	280	1,620	1,274	346
Physical sciences	30,988	27,129	3,859	9,332	8,082	1,250	21,656	19,047	2,609
Astronomy	916	860	56	265	253	12	651	607	44
Chemistry	18,300	16,012	2,288	6,848	5,916	932	11,452	10,096	1,356
Physics	11,264	10,023	1,241	2,045	1,826	219	9,219	8,197	1,022
Other	508	234	274	174	87	87	334	147	187
Psychology	50,798	34,533	16,265	37,583	25,212	12,371	13,215	9,321	3,894
Clinical	12,473	9,682	2,791	9,389	7,235	2,154	3,084	2,447	637
General	16,022	11,315	4,707	11,438	8,008	3,430	4,584	3,307	1,277
Nonclinical	22,303	13,536	8,767	16,756	9,969	6,787	5,547	3,567	1,980
Social sciences	85,763	54,589	31,174	44,741	27,976	16,765	41,022	26,613	14,409
Agricultural economics	2,161	1,869	292	835	726	109	1,326	1,143	183
Anthropology (cultural and social)	7,491	5,577	1,914	4,562	3,368	1,194	2,929	2,209	720
Economics	11,340	9,162	2,178	3,982	3,205	777	7,358	5,957	1,401
Geography	4,276	2,904	1,372	1,786	1,223	563	2,490	1,681	809
History and philosophy of science	571	400	171	244	174	70	327	226	101
Linguistics	2,744	2,177	567	1,793	1,408	385	951	769	182
Political science and public administration	31,850	16,672	15,178	16,518	8,376	8,142	15,332	8,296	7,036
Sociology	8,775	6,118	2,657	5,709	3,934	1,775	3,066	2,184	882
Other	16,555	9,710	6,845	9,312	5,562	3,750	7,243	4,148	3,095
Engineering	109,506	77,572	31,934	22,227	16,191	6,036	87,279	61,381	25,898
Aerospace	3,485	2,855	630	485	386	99	3,000	2,469	531
Agricultural	907	758	149	284	247	37	623	511	112
Biomedical	3,593	3,123	470	1,241	1,082	159	2,352	2,041	311
Chemical	6,913	5,829	1,084	1,829	1,540	289	5,084	4,289	795
Civil	16,604	12,099	4,505	4,479	3,419	1,060	12,125	8,680	3,445

TABLE D-9. Enrollment status of S&E graduate students, by field and sex: 2001

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Field	All graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
Electrical	35,745	25,112	10,633	6,030	4,341	1,689	29,715	20,771	8,944
Engineering sciences/physics	1,798	1,218	580	363	257	106	1,435	961	474
Industrial/manufacturing	12,940	6,534	6,406	2,808	1,429	1,379	10,132	5,105	5,027
Mechanical	15,831	11,436	4,395	1,939	1,438	501	13,892	9,998	3,894
Metallurgical and materials	4,721	3,977	744	1,173	989	184	3,548	2,988	560
Mining	240	194	46	36	31	5	204	163	41
Nuclear	801	651	150	157	128	29	644	523	121
Petroleum	680	515	165	92	78	14	588	437	151
Other	5,248	3,271	1,977	1,311	826	485	3,937	2,445	1,492

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

TABLE D-10. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2001

Field and enrollment status	S&E graduate students	U.S. citizen/permanent resident						Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other/ unknown	
S&E	429,492	205,757	27,659	21,773	17,983	1,687	21,335	133,298
Full time	304,476	134,969	18,131	12,164	11,400	1,138	11,904	114,770
Part time	125,016	70,788	9,528	9,609	6,583	549	9,431	18,528
Sciences	319,986	167,437	19,057	18,852	14,785	1,460	17,007	81,388
Full time	226,904	113,354	12,888	10,498	9,588	1,009	9,811	69,756
Part time	93,082	54,083	6,169	8,354	5,197	451	7,196	11,632
Agricultural sciences	11,911	7,894	258	301	422	57	476	2,503
Full time	9,202	5,829	207	241	305	41	350	2,229
Part time	2,709	2,065	51	60	117	16	126	274
Biological sciences	57,826	33,311	4,719	2,369	2,338	205	2,499	12,385
Full time	48,351	26,933	4,102	1,839	1,892	176	1,970	11,439
Part time	9,475	6,378	617	530	446	29	529	946
Anatomy	867	522	71	26	22	4	13	209
Full time	806	476	69	23	21	4	11	202
Part time	61	46	2	3	1	0	2	7
Biochemistry	4,917	2,373	477	129	171	15	173	1,579
Full time	4,642	2,236	447	119	158	15	154	1,513
Part time	275	137	30	10	13	0	19	66
Biology	13,355	8,281	762	755	700	52	659	2,146
Full time	9,791	5,951	553	501	459	37	433	1,857
Part time	3,564	2,330	209	254	241	15	226	289
Biometry and epidemiology	3,629	1,848	419	171	148	11	181	851
Full time	2,665	1,248	315	126	107	11	119	739
Part time	964	600	104	45	41	0	62	112
Biophysics	893	430	132	17	20	1	32	261
Full time	853	400	130	17	20	0	31	255
Part time	40	30	2	0	0	1	1	6
Botany	2,182	1,288	99	48	44	9	82	612
Full time	1,906	1,079	92	46	40	7	66	576
Part time	276	209	7	2	4	2	16	36
Cell and molecular biology	4,768	2,558	520	137	180	10	286	1,077
Full time	4,398	2,325	493	122	175	9	253	1,021
Part time	370	233	27	15	5	1	33	56
Ecology	1,848	1,428	47	26	58	8	89	192
Full time	1,374	1,037	34	15	35	7	74	172
Part time	474	391	13	11	23	1	15	20
Entomology and parasitology	1,170	764	46	15	39	2	29	275
Full time	989	620	42	15	37	2	26	247
Part time	181	144	4	0	2	0	3	28
Genetics	1,833	1,041	147	54	67	7	101	416
Full time	1,735	973	142	49	63	7	100	401
Part time	98	68	5	5	4	0	1	15
Microbiology, immunology, and virology	4,798	2,658	479	178	220	13	246	1,004
Full time	4,500	2,468	444	162	213	13	232	968
Part time	298	190	35	16	7	0	14	36
Nutrition	4,429	2,445	254	231	162	15	162	1,160
Full time	3,269	1,667	194	142	120	13	119	1,014
Part time	1,160	778	60	89	42	2	43	146
Pathology	1,649	968	186	50	67	11	74	293
Full time	1,362	751	160	41	55	8	64	283
Part time	287	217	26	9	12	3	10	10

TABLE D-10. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2001

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Field and enrollment status	S&E graduate students	U.S. citizen/permanent resident						Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other/ unknown	
Pharmacology	3,052	1,727	335	166	113	10	53	648
Full time	2,658	1,445	298	146	101	10	38	620
Part time	394	282	37	20	12	0	15	28
Physiology	1,967	1,035	288	98	60	7	48	431
Full time	1,827	929	281	95	56	7	44	415
Part time	140	106	7	3	4	0	4	16
Zoology	1,448	1,100	33	10	29	8	44	224
Full time	1,268	961	29	7	23	5	38	205
Part time	180	139	4	3	6	3	6	19
Other	5,021	2,845	424	258	238	22	227	1,007
Full time	4,308	2,367	379	213	209	21	168	951
Part time	713	478	45	45	29	1	59	56
Computer sciences	52,196	15,039	5,716	1,726	901	88	2,977	25,749
Full time	30,098	6,004	2,528	658	305	42	837	19,724
Part time	22,098	9,035	3,188	1,068	596	46	2,140	6,025
Earth, atmospheric, and ocean sciences	13,841	9,583	352	227	397	70	451	2,761
Full time	10,504	6,967	277	140	297	53	319	2,451
Part time	3,337	2,616	75	87	100	17	132	310
Atmospheric	924	547	37	19	15	4	28	274
Full time	812	468	34	17	13	3	22	255
Part time	112	79	3	2	2	1	6	19
Earth	6,544	4,613	139	57	155	32	203	1,345
Full time	5,222	3,541	115	45	115	26	155	1,225
Part time	1,322	1,072	24	12	40	6	48	120
Ocean sciences	2,585	1,769	51	31	137	12	71	514
Full time	2,058	1,334	43	29	112	10	53	477
Part time	527	435	8	2	25	2	18	37
Other	3,788	2,654	125	120	90	22	149	628
Full time	2,412	1,624	85	49	57	14	89	494
Part time	1,376	1,030	40	71	33	8	60	134
Mathematics and statistics	16,663	7,386	997	591	498	38	683	6,470
Full time	12,498	4,959	637	361	301	20	422	5,798
Part time	4,165	2,427	360	230	197	18	261	672
Mathematics	13,594	6,322	825	526	458	34	582	4,847
Full time	10,055	4,220	535	320	275	17	360	4,328
Part time	3,539	2,102	290	206	183	17	222	519
Statistics	3,069	1,064	172	65	40	4	101	1,623
Full time	2,443	739	102	41	26	3	62	1,470
Part time	626	325	70	24	14	1	39	153
Physical sciences	30,988	14,235	1,612	879	896	81	1,292	11,993
Full time	27,129	12,172	1,352	687	731	67	870	11,250
Part time	3,859	2,063	260	192	165	14	422	743
Astronomy	916	527	36	12	17	0	41	283
Full time	860	494	35	10	16	0	34	271
Part time	56	33	1	2	1	0	7	12
Chemistry	18,300	8,965	1,104	631	629	62	523	6,386
Full time	16,012	7,709	893	482	517	51	381	5,979
Part time	2,288	1,256	211	149	112	11	142	407
Physics	11,264	4,484	455	215	239	19	622	5,230
Full time	10,023	3,857	417	185	194	16	444	4,910
Part time	1,241	627	38	30	45	3	178	320

TABLE D-10. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2001

Field and enrollment status	S&E graduate students	U.S. citizen/permanent resident						Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other/ unknown	
Other	508	259	17	21	11	0	106	94
Full time	234	112	7	10	4	0	11	90
Part time	274	147	10	11	7	0	95	4
Psychology	50,798	33,558	2,165	4,621	4,323	336	3,282	2,513
Full time	34,533	23,110	1,581	2,565	2,994	228	2,042	2,013
Part time	16,265	10,448	584	2,056	1,329	108	1,240	500
Clinical	12,473	8,346	574	751	1,488	92	797	425
Full time	9,682	6,473	453	585	1,189	71	559	352
Part time	2,791	1,873	121	166	299	21	238	73
General	16,022	10,514	729	1,724	1,017	104	1,006	928
Full time	11,315	7,603	547	919	679	72	711	784
Part time	4,707	2,911	182	805	338	32	295	144
Nonclinical	22,303	14,698	862	2,146	1,818	140	1,479	1,160
Full time	13,536	9,034	581	1,061	1,126	85	772	877
Part time	8,767	5,664	281	1,085	692	55	707	283
Social sciences	85,763	46,431	3,238	8,138	5,010	585	5,347	17,014
Full time	54,589	27,380	2,204	4,007	2,763	382	3,001	14,852
Part time	31,174	19,051	1,034	4,131	2,247	203	2,346	2,162
Agricultural economics	2,161	888	29	76	40	4	72	1,052
Full time	1,869	741	24	52	35	3	64	950
Part time	292	147	5	24	5	1	8	102
Anthropology (cultural and social)	7,491	5,190	253	274	383	102	520	769
Full time	5,577	3,808	196	207	286	70	352	658
Part time	1,914	1,382	57	67	97	32	168	111
Economics	11,340	3,468	502	314	306	21	482	6,247
Full time	9,162	2,409	358	181	182	17	332	5,683
Part time	2,178	1,059	144	133	124	4	150	564
Geography	4,276	3,031	97	114	106	28	178	722
Full time	2,904	1,949	65	57	69	16	119	629
Part time	1,372	1,082	32	57	37	12	59	93
History and philosophy of science	571	414	21	16	18	2	30	70
Full time	400	278	16	9	9	0	21	67
Part time	171	136	5	7	9	2	9	3
Linguistics	2,744	1,293	154	47	126	13	149	962
Full time	2,177	955	116	34	78	12	102	880
Part time	567	338	38	13	48	1	47	82
Political science/public administration	31,850	17,728	1,215	4,255	2,171	190	2,039	4,252
Full time	16,672	8,539	732	1,840	968	89	955	3,549
Part time	15,178	9,189	483	2,415	1,203	101	1,084	703
Sociology	8,775	5,069	359	999	605	66	371	1,306
Full time	6,118	3,507	266	574	405	52	246	1,068
Part time	2,657	1,562	93	425	200	14	125	238
Sociology/anthropology	808	495	14	131	28	16	39	85
Full time	578	359	7	81	21	15	23	72
Part time	230	136	7	50	7	1	16	13
Other	15,747	8,855	594	1,912	1,227	143	1,467	1,549
Full time	9,132	4,835	424	972	710	108	787	1,296
Part time	6,615	4,020	170	940	517	35	680	253
Engineering	109,506	38,320	8,602	2,921	3,198	227	4,328	51,910
Full time	77,572	21,615	5,243	1,666	1,812	129	2,093	45,014
Part time	31,934	16,705	3,359	1,255	1,386	98	2,235	6,896

TABLE D-10. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2001

Field and enrollment status	S&E graduate students	U.S. citizen/permanent resident						Temporary resident
		White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Other/ unknown	
Aerospace	3,485	1,447	203	45	70	8	108	1,604
Full time	2,855	1,035	173	35	45	4	68	1,495
Part time	630	412	30	10	25	4	40	109
Agricultural	907	375	44	26	27	3	22	410
Full time	758	291	39	19	20	3	20	366
Part time	149	84	5	7	7	0	2	44
Biomedical	3,593	1,608	423	121	101	5	201	1,134
Full time	3,123	1,379	359	98	84	5	160	1,038
Part time	470	229	64	23	17	0	41	96
Chemical	6,913	2,417	576	167	180	13	147	3,413
Full time	5,829	1,844	491	135	152	9	81	3,117
Part time	1,084	573	85	32	28	4	66	296
Civil	16,604	7,462	789	431	746	43	590	6,543
Full time	12,099	4,689	539	261	496	24	311	5,779
Part time	4,505	2,773	250	170	250	19	279	764
Electrical	35,745	8,817	3,728	813	825	45	1,544	19,973
Full time	25,112	4,483	2,044	439	376	27	764	16,979
Part time	10,633	4,334	1,684	374	449	18	780	2,994
Engineering sciences/physics	1,798	717	123	33	40	9	132	744
Full time	1,218	405	81	20	23	6	30	653
Part time	580	312	42	13	17	3	102	91
Industrial/manufacturing	12,940	5,255	696	591	469	43	563	5,323
Full time	6,534	1,365	276	200	171	16	145	4,361
Part time	6,406	3,890	420	391	298	27	418	962
Mechanical	15,831	5,897	1,072	354	425	32	510	7,541
Full time	11,436	3,456	737	247	246	18	219	6,513
Part time	4,395	2,441	335	107	179	14	291	1,028
Metallurgical and materials	4,721	1,839	244	107	80	8	107	2,336
Full time	3,977	1,356	191	94	66	6	63	2,201
Part time	744	483	53	13	14	2	44	135
Mining	240	115	12	1	3	0	5	104
Full time	194	85	10	0	3	0	2	94
Part time	46	30	2	1	0	0	3	10
Nuclear	801	364	27	13	34	0	7	356
Full time	651	252	20	12	25	0	5	337
Part time	150	112	7	1	9	0	2	19
Petroleum	680	112	39	4	63	1	48	413
Full time	515	43	34	3	49	1	45	340
Part time	165	69	5	1	14	0	3	73
Other	5,248	1,895	626	215	135	17	344	2,016
Full time	3,271	932	249	103	56	10	180	1,741
Part time	1,977	963	377	112	79	7	164	275

NOTES: Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.

TABLE D-11. Primary source of support for full-time S&E graduate students, by sex and field: 2001

Sex and field	All sources	Federal support										Other outside support			Self-support	
		Total	DOD	DOE	HHS						Institutional support	Total	United States	Foreign		
					Total	NIH	Other	NASA	NSF	USDA						Other
Both sexes																
S&E	304,476	60,088	7,676	3,100	17,976	16,446	1,530	2,789	15,319	2,705	10,523	129,742	25,884	22,336	3,548	88,762
Sciences	226,904	43,049	3,258	1,808	16,700	15,325	1,375	1,439	9,892	2,445	7,507	101,889	14,820	12,360	2,460	67,146
Agricultural	9,202	1,945	47	29	40	29	11	63	128	1,061	577	3,949	1,529	1,346	183	1,779
Biological	48,351	16,709	352	165	12,265	11,591	674	77	1,636	841	1,373	21,288	3,653	3,283	370	6,701
Computer	30,098	4,240	1,259	120	173	101	72	166	1,869	25	628	8,973	1,927	1,606	321	14,958
Earth, atmospheric, and ocean	10,504	2,916	257	137	60	37	23	456	1,127	65	814	4,673	901	716	185	2,014
Mathematical	12,498	1,388	212	40	108	89	19	23	763	20	222	8,594	506	297	209	2,010
Physical	27,129	9,284	855	1,256	2,088	1,833	255	502	3,344	42	1,197	14,456	1,974	1,847	127	1,415
Psychology	34,533	3,230	147	1	1,592	1,368	224	27	283	13	1,167	13,133	1,243	1,178	65	16,927
Social	54,589	3,337	129	60	374	277	97	125	742	378	1,529	26,823	3,087	2,087	1,000	21,342
Engineering	77,572	17,039	4,418	1,292	1,276	1,121	155	1,350	5,427	260	3,016	27,853	11,064	9,976	1,088	21,616
Aerospace	2,855	1,004	411	34	5	5	0	367	106	0	81	875	361	317	44	615
Chemical	5,829	1,681	140	257	179	136	43	108	710	35	252	2,252	1,095	984	111	801
Civil	12,099	1,923	178	82	27	26	1	79	595	38	924	4,968	1,511	1,335	176	3,697
Electrical	25,112	4,949	1,974	138	146	106	40	328	1,632	13	718	7,991	3,419	3,171	248	8,753
Industrial	6,534	803	241	46	40	29	11	29	276	8	163	2,429	746	605	141	2,556
Mechanical	11,436	2,761	689	214	159	147	12	280	1,002	11	406	4,498	1,711	1,564	147	2,466
Metallurgical and materials	3,977	1,477	353	222	29	23	6	66	620	5	182	1,244	823	773	50	433
Other	9,730	2,441	432	299	691	649	42	93	486	150	290	3,596	1,398	1,227	171	2,295
Female																
S&E	124,347	21,324	1,368	672	8,725	7,997	728	722	4,571	1,215	4,051	54,172	8,124	7,173	951	40,727
Sciences	16,191	3,363	609	217	368	323	45	250	1,213	67	639	6,090	2,190	2,023	167	4,548
Agricultural	1,429	173	35	9	12	10	2	9	76	0	32	529	161	136	25	566
Biological	1,438	385	73	29	30	25	5	50	146	1	56	626	190	179	11	237
Computer	4,341	751	274	13	33	21	12	46	280	4	101	1,399	523	492	31	1,668
Earth, atmospheric, and ocean	1,540	476	28	60	56	44	12	37	231	8	56	584	268	245	23	212
Mathematical	3,419	527	41	15	10	9	1	17	167	11	266	1,473	411	374	37	1,008
Physical	386	112	33	4	1	1	0	51	15	0	8	135	55	52	3	84
Psychology	989	331	67	42	13	11	2	23	147	1	38	342	204	195	9	112
Social	2,649	608	58	45	213	202	11	17	151	42	82	1,002	378	350	28	661
Engineering	108,156	17,961	759	455	8,357	7,674	683	472	3,358	1,148	3,412	48,082	5,934	5,150	784	36,179
Aerospace	8,082	2,520	174	255	728	642	86	122	909	12	320	4,591	526	504	22	445
Chemical	4,568	1,214	73	55	27	14	13	196	480	22	361	2,112	319	264	55	923
Civil	4,388	383	17	13	50	39	11	4	197	4	98	3,016	167	102	65	822
Electrical	8,321	801	186	24	34	23	11	40	381	7	129	2,326	393	335	58	4,801

TABLE D-11. Primary source of support for full-time S&E graduate students, by sex and field: 2001

Sex and field	All sources	Federal support										Other outside support			Self-support		
		Total	DOD	DOE	HHS					Institutional support	Total	United States					
					Total	NIH	Other	NASA	NSF			USDA	Other	Foreign			
Industrial	4,120	846	19	11	18	14	4	23	65	463	247	1,866	579	530	49	829	
Mechanical	25,489	8,386	180	61	6,184	5,856	328	26	800	452	683	11,381	1,745	1,587	158	3,977	
Metallurgical and materials	25,212	2,151	77	0	1,078	910	168	15	174	12	795	9,290	847	801	46	12,924	
Other	27,976	1,660	33	36	238	176	62	46	352	176	779	13,500	1,358	1,027	331	11,458	
Male																	
S&E	180,129	38,764	6,308	2,428	9,251	8,449	802	2,067	10,748	1,490	6,472	75,570	17,760	15,163	2,597	48,035	
Sciences	118,748	25,088	2,499	1,353	8,343	7,651	692	967	6,534	1,297	4,095	53,807	8,886	7,210	1,676	30,967	
Agricultural	5,082	1,099	28	18	22	15	7	40	63	598	330	2,083	950	816	134	950	
Biological	22,862	8,323	172	104	6,081	5,735	346	51	836	389	690	9,907	1,908	1,696	212	2,724	
Computer	21,777	3,439	1,073	96	139	78	61	126	1,488	18	499	6,647	1,534	1,271	263	10,157	
Earth, atmospheric, and ocean	5,936	1,702	184	82	33	23	10	260	647	43	453	2,561	582	452	130	1,091	
Mathematical	8,110	1,005	195	27	58	50	8	19	566	16	124	5,578	339	195	144	1,188	
Physical	19,047	6,764	681	1,001	1,360	1,191	169	380	2,435	30	877	9,865	1,448	1,343	105	970	
Psychology	9,321	1,079	70	1	514	458	56	12	109	1	372	3,843	396	377	19	4,003	
Social	26,613	1,677	96	24	136	101	35	79	390	202	750	13,323	1,729	1,060	669	9,884	
Engineering	61,381	13,676	3,809	1,075	908	798	110	1,100	4,214	193	2,377	21,763	8,874	7,953	921	17,068	
Aerospace	2,469	892	378	30	4	4	0	316	91	0	73	740	306	265	41	531	
Chemical	4,289	1,205	112	197	123	92	31	71	479	27	196	1,668	827	739	88	589	
Civil	8,680	1,396	137	67	17	17	0	62	428	27	658	3,495	1,100	961	139	2,689	
Electrical	20,771	4,198	1,700	125	113	85	28	282	1,352	9	617	6,592	2,896	2,679	217	7,085	
Industrial	5,105	630	206	37	28	19	9	20	200	8	131	1,900	585	469	116	1,990	
Mechanical	9,998	2,376	616	185	129	122	7	230	856	10	350	3,872	1,521	1,385	136	2,229	
Metallurgical and materials	2,988	1,146	286	180	16	12	4	43	473	4	144	902	619	578	41	321	
Other	7,081	1,833	374	254	478	447	31	76	335	108	208	2,594	1,020	877	143	1,634	

DOD Department of Defense; DOE Department of Energy; HHS Department of Health and Human Services; NASA National Aeronautics and Space Administration; NIH National Institutes of Health

NSF National Science Foundation; USDA U.S. Department of Agriculture

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2001.