

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All male S&E graduate students	245,619	241,429	242,786	243,057	251,812	266,248	276,260	274,311
Science	163,191	160,379	160,982	159,691	164,576	171,547	176,470	177,928
Agricultural sciences	7,497	7,316	7,263	6,935	6,892	7,045	7,171	7,187
Biological sciences	28,229	27,742	27,338	26,475	26,590	27,706	28,818	29,271
Anatomy	473	443	404	428	383	484	442	437
Biochemistry	2,926	2,919	2,835	2,735	2,694	2,768	2,957	2,969
Biology	7,359	7,064	6,846	6,401	6,163	6,308	6,612	6,833
Biometry/epidemiology	1,120	1,361	1,381	1,374	1,390	1,519	1,668	1,807
Biophysics	532	528	497	520	615	647	693	746
Botany	1,086	1,031	992	918	947	954	905	857
Cell/molecular biology	2,245	2,238	2,277	2,326	2,390	2,584	2,683	2,735
Ecology	842	840	823	846	909	928	1,022	993
Entomology/parasitology	751	754	739	662	690	699	669	676
Genetics	808	744	767	739	795	797	857	846
Microbiology, immunology, and virology	2,409	2,402	2,365	2,382	2,303	2,400	2,323	2,322
Nutrition	1,144	1,073	1,077	1,034	993	1,027	1,037	1,046
Pathology	842	776	776	702	742	707	631	629
Pharmacology	1,368	1,405	1,414	1,447	1,482	1,461	1,539	1,428
Physiology	1,364	1,265	1,185	1,133	1,056	1,082	1,184	1,193
Zoology	924	892	853	803	744	711	656	596
Other	2,036	2,007	2,107	2,025	2,294	2,630	2,940	3,158
Computer sciences	26,110	27,225	29,933	33,270	36,894	39,244	38,880	36,965
Earth, atmospheric, and ocean sciences	9,132	8,690	8,358	8,188	7,949	7,993	8,082	8,182
Atmospheric	829	731	671	695	626	703	776	723
Earth	4,663	4,372	4,237	4,141	4,061	4,099	4,125	4,282
Ocean	1,424	1,400	1,402	1,401	1,330	1,309	1,303	1,292
Other	2,216	2,187	2,048	1,951	1,932	1,882	1,878	1,885
Mathematics and statistics	10,851	10,497	10,214	9,870	10,381	11,277	12,176	12,387
Mathematics/applied mathematics	9,244	8,932	8,659	8,315	8,751	9,463	10,163	10,300
Statistics	1,607	1,565	1,555	1,555	1,630	1,814	2,013	2,087
Physical sciences	22,257	21,822	21,776	21,270	21,702	22,275	23,520	24,474
Astronomy	570	590	607	621	651	688	735	764
Chemistry	12,052	11,918	11,799	11,349	11,511	11,720	12,210	12,544
Physics	9,403	9,029	8,993	8,931	9,206	9,500	10,189	10,810
Other	232	285	377	369	334	367	386	356
Psychology	15,507	15,095	14,456	13,594	13,149	13,437	13,395	13,960
Clinical	3,786	3,560	3,513	3,205	3,089	3,142	3,163	3,124
General	5,372	5,251	4,851	4,597	4,554	4,483	4,582	5,169
Nonclinical	6,349	6,284	6,092	5,792	5,506	5,812	5,650	5,667
Social sciences	43,608	41,992	41,644	40,089	41,019	42,570	44,428	45,502
Agricultural economics	1,355	1,315	1,299	1,290	1,326	1,343	1,418	1,341
Anthropology (cultural and social)	3,059	3,021	2,989	2,941	2,929	2,864	2,919	2,858
Economics	7,585	7,237	7,063	6,983	7,413	7,741	7,808	7,777
Geography	2,662	2,663	2,547	2,409	2,503	2,540	2,693	2,802
History and philosophy of science	281	315	345	313	327	362	425	580
Linguistics	1,051	982	966	930	951	984	1,023	1,018
Political science and public administration	16,679	15,867	15,799	15,204	15,304	16,315	17,038	18,278
Sociology	3,591	3,362	3,227	3,072	3,080	3,178	3,226	3,088
Other	7,345	7,230	7,409	6,947	7,186	7,243	7,878	7,760
Engineering	82,428	81,050	81,804	83,366	87,236	94,701	99,790	96,383
Aerospace	2,712	2,755	2,926	2,938	2,966	3,169	3,445	3,489
Agricultural	723	682	683	631	623	640	715	703
Biomedical	2,021	2,035	2,117	2,171	2,385	2,849	3,385	3,679
Chemical	5,568	5,366	5,150	5,181	5,084	5,419	5,416	5,346
Civil	13,029	12,415	12,069	12,174	12,162	12,808	13,492	13,106
Electrical	26,237	26,512	26,689	28,075	29,888	32,678	33,969	31,794
Engineering science/physics	1,369	1,370	1,308	1,290	1,435	1,691	1,775	1,733
Industrial/manufacturing	9,301	8,769	9,144	9,406	10,132	10,957	11,047	10,623
Mechanical	13,266	12,934	13,168	13,403	13,908	15,056	16,039	15,469

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1997-2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Metallurgical/materials	3,571	3,550	3,397	3,336	3,548	3,741	3,800	3,739
Mining	285	249	273	241	204	230	236	266
Nuclear	725	687	686	636	644	647	703	775
Petroleum	484	516	560	540	565	659	720	711
Other	3,137	3,210	3,634	3,344	3,692	4,157	5,048	4,950
U.S. citizens and permanent residents	174,934	169,490	165,823	157,023	158,015	165,004	174,927	177,113
Science	122,823	119,622	118,016	112,367	113,471	117,447	122,980	125,510
Agricultural sciences	5,543	5,508	5,580	5,371	5,316	5,444	5,613	5,594
Biological sciences	22,288	21,856	21,590	20,557	20,536	21,033	21,889	22,041
Anatomy	364	346	317	324	281	369	340	341
Biochemistry	2,110	2,099	2,042	1,866	1,869	1,859	1,974	1,934
Biology	6,297	6,005	5,831	5,374	5,099	5,135	5,434	5,611
Biometry/epidemiology	864	1,017	1,006	986	999	1,032	1,170	1,293
Biophysics	406	407	386	372	427	433	482	509
Botany	740	704	661	603	646	639	614	567
Cell/molecular biology	1,771	1,767	1,853	1,858	1,870	2,018	2,043	2,031
Ecology	735	740	723	745	799	802	886	851
Entomology/parasitology	546	543	521	467	500	512	488	490
Genetics	569	545	556	543	571	591	616	602
Microbiology, immunology, and virology	1,883	1,906	1,904	1,916	1,843	1,834	1,814	1,810
Nutrition	731	708	699	649	597	621	587	638
Pathology	673	621	607	532	586	562	482	474
Pharmacology	1,084	1,111	1,124	1,141	1,184	1,172	1,207	1,069
Physiology	1,110	1,011	919	876	838	852	927	934
Zoology	808	780	762	711	631	590	565	502
Other	1,597	1,546	1,679	1,594	1,796	2,012	2,260	2,385
Computer sciences	16,876	17,028	17,911	17,682	18,499	19,997	21,369	21,082
Earth, atmospheric, and ocean sciences	7,336	6,954	6,695	6,392	6,148	6,237	6,349	6,474
Atmospheric	636	564	502	493	447	514	602	559
Earth	3,660	3,422	3,344	3,194	3,091	3,152	3,169	3,336
Ocean	1,081	1,049	1,070	1,077	1,022	1,028	1,010	1,013
Other	1,959	1,919	1,779	1,628	1,588	1,543	1,568	1,566
Mathematics and statistics	7,006	6,859	6,348	5,932	6,240	6,760	7,524	7,731
Mathematics/applied mathematics	6,008	5,884	5,494	5,112	5,423	5,835	6,487	6,634
Statistics	998	975	854	820	817	925	1,037	1,097
Physical sciences	14,373	14,004	13,697	12,898	12,976	13,073	13,690	14,433
Astronomy	424	426	421	420	442	458	494	491
Chemistry	8,125	8,016	7,854	7,406	7,344	7,209	7,391	7,680
Physics	5,627	5,317	5,093	4,758	4,916	5,097	5,495	5,956
Other	197	245	329	314	274	309	310	306
Psychology	14,757	14,297	13,666	12,842	12,372	12,345	12,240	12,715
Clinical	3,679	3,447	3,397	3,121	2,995	2,920	2,934	3,022
General	5,084	4,942	4,566	4,285	4,227	4,064	4,126	4,443
Nonclinical	5,994	5,908	5,703	5,436	5,150	5,361	5,180	5,250
Social sciences	34,644	33,116	32,529	30,693	31,384	32,558	34,306	35,440
Agricultural economics	709	701	696	652	686	713	754	725
Anthropology (cultural and social)	2,731	2,669	2,614	2,577	2,581	2,477	2,553	2,485
Economics	3,847	3,653	3,310	3,126	3,289	3,451	3,624	3,699
Geography	2,335	2,313	2,186	2,025	2,071	2,113	2,246	2,348
History and philosophy of science	235	271	304	274	282	321	378	536
Linguistics	698	615	604	584	621	656	687	671
Political science and public administration	14,612	13,739	13,521	12,844	12,984	13,898	14,459	15,652
Sociology	3,013	2,851	2,716	2,540	2,558	2,640	2,674	2,569
Other	6,464	6,304	6,578	6,071	6,312	6,289	6,931	6,755
Engineering	52,111	49,868	47,807	44,656	44,544	47,557	51,947	51,603
Aerospace	1,538	1,496	1,562	1,612	1,530	1,699	1,971	2,024
Agricultural	393	378	376	340	315	326	355	352
Biomedical	1,491	1,501	1,510	1,503	1,619	1,825	2,113	2,346

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Chemical	3,348	3,149	2,849	2,672	2,433	2,615	2,659	2,691
Civil	8,975	8,509	7,846	7,397	7,115	7,344	7,906	7,878
Electrical	15,535	14,941	14,128	13,069	13,154	13,911	15,156	14,553
Engineering science/physics	990	929	878	760	845	987	995	933
Industrial/manufacturing	6,537	6,000	6,070	5,678	5,717	6,204	6,584	6,533
Mechanical	8,185	7,893	7,619	7,046	7,066	7,440	8,277	8,329
Metallurgical/materials	2,020	1,993	1,820	1,684	1,763	1,814	1,844	1,813
Mining	168	177	176	123	104	135	137	156
Nuclear	465	439	411	362	357	377	417	493
Petroleum	131	108	131	225	227	258	150	161
Other	2,335	2,355	2,431	2,185	2,299	2,622	3,383	3,341
White	131,492	125,734	121,810	113,782	113,259	116,620	122,137	123,021
Science	93,670	89,802	87,611	82,325	82,401	84,120	87,560	88,652
Agricultural sciences	4,771	4,759	4,856	4,626	4,547	4,670	4,738	4,745
Biological sciences	17,332	16,869	16,511	15,578	15,347	15,614	16,060	16,042
Anatomy	278	263	238	241	218	262	238	243
Biochemistry	1,581	1,598	1,507	1,409	1,356	1,369	1,393	1,410
Biology	4,872	4,636	4,470	4,105	3,920	3,914	4,105	4,170
Biometry/epidemiology	601	712	696	672	664	663	785	831
Biophysics	289	266	266	253	290	299	338	376
Botany	641	605	576	521	540	520	503	462
Cell/molecular biology	1,391	1,354	1,409	1,355	1,332	1,427	1,427	1,458
Ecology	629	652	654	651	703	700	751	716
Entomology/parasitology	478	487	474	423	423	449	429	429
Genetics	456	426	395	384	406	406	412	407
Microbiology, immunology, and virology	1,450	1,467	1,404	1,409	1,305	1,313	1,282	1,280
Nutrition	579	547	543	492	436	460	437	453
Pathology	513	460	436	380	407	390	321	329
Pharmacology	857	834	852	867	878	855	868	745
Physiology	789	728	635	586	570	580	634	635
Zoology	745	683	701	650	567	520	492	447
Other	1,183	1,151	1,255	1,180	1,332	1,487	1,645	1,651
Computer sciences	10,919	10,750	10,856	10,839	11,279	12,000	13,221	13,167
Earth, atmospheric, and ocean sciences	6,363	6,033	5,873	5,612	5,362	5,389	5,422	5,508
Atmospheric	540	493	441	431	391	448	502	459
Earth	3,218	3,023	2,986	2,850	2,752	2,761	2,757	2,927
Ocean	934	903	930	951	872	891	869	861
Other	1,671	1,614	1,516	1,380	1,347	1,289	1,294	1,261
Mathematics and statistics	5,316	5,057	4,798	4,354	4,587	4,877	5,353	5,547
Mathematics/applied mathematics	4,516	4,313	4,129	3,728	3,957	4,202	4,585	4,791
Statistics	800	744	669	626	630	675	768	756
Physical sciences	11,587	11,048	10,872	10,176	10,084	10,123	10,515	11,007
Astronomy	377	362	365	360	373	388	411	425
Chemistry	6,492	6,308	6,212	5,855	5,806	5,611	5,619	5,767
Physics	4,551	4,208	4,101	3,773	3,730	3,926	4,288	4,619
Other	167	170	194	188	175	198	197	196
Psychology	11,316	10,915	10,195	9,359	9,025	8,818	8,687	8,570
Clinical	2,924	2,736	2,635	2,342	2,205	2,101	2,094	2,074
General	3,959	3,788	3,480	3,188	3,165	3,033	2,985	2,981
Nonclinical	4,433	4,391	4,080	3,829	3,655	3,684	3,608	3,515
Social sciences	26,066	24,371	23,650	21,781	22,170	22,629	23,564	24,066
Agricultural economics	591	565	572	535	557	589	629	612
Anthropology (cultural and social)	2,277	2,190	2,130	2,049	2,042	1,962	1,986	1,927
Economics	2,850	2,601	2,445	2,230	2,304	2,336	2,450	2,567
Geography	2,036	1,972	1,889	1,745	1,785	1,806	1,892	1,982
History and philosophy of science	183	231	261	228	232	229	296	405
Linguistics	523	470	474	436	463	466	489	460
Political science and public administration	10,740	9,881	9,554	8,851	8,945	9,306	9,513	10,058

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	2,139	1,946	1,798	1,683	1,700	1,747	1,764	1,687
Other	4,727	4,515	4,527	4,024	4,142	4,188	4,545	4,368
Engineering	37,822	35,932	34,199	31,457	30,858	32,500	34,577	34,369
Aerospace	1,257	1,216	1,239	1,233	1,224	1,295	1,468	1,535
Agricultural	303	300	310	282	258	280	302	299
Biomedical	1,095	1,140	1,144	1,089	1,123	1,277	1,391	1,478
Chemical	2,623	2,420	2,162	1,964	1,807	1,912	1,919	1,990
Civil	6,896	6,459	5,990	5,641	5,381	5,479	5,834	5,760
Electrical	9,926	9,495	8,798	8,001	7,865	8,093	8,673	8,476
Engineering science/physics	739	693	650	539	579	723	749	692
Industrial/manufacturing	4,953	4,492	4,446	4,118	4,093	4,419	4,357	4,223
Mechanical	6,217	5,866	5,742	5,318	5,204	5,511	5,979	6,063
Metallurgical/materials	1,519	1,573	1,492	1,325	1,390	1,414	1,427	1,330
Mining	118	114	129	104	86	111	111	132
Nuclear	404	378	358	313	300	320	352	408
Petroleum	96	92	111	95	102	110	113	109
Other	1,676	1,694	1,628	1,435	1,446	1,556	1,902	1,874
Asian/Pacific Islander	15,682	15,896	16,046	14,404	15,189	16,675	18,062	17,546
Science	9,331	9,718	9,894	8,914	9,253	9,947	10,408	10,328
Agricultural sciences	168	160	143	112	115	136	151	144
Biological sciences	2,162	2,089	2,099	1,993	2,171	2,199	2,264	2,280
Anatomy	43	39	42	51	34	51	46	44
Biochemistry	306	283	306	231	266	221	247	233
Biology	411	363	355	337	315	330	342	380
Biometry/epidemiology	113	111	119	134	139	169	165	211
Biophysics	65	72	71	72	94	81	83	63
Botany	35	34	25	22	39	50	42	40
Cell/molecular biology	196	223	222	246	255	279	281	234
Ecology	21	21	18	16	18	13	17	22
Entomology/parasitology	24	20	9	9	27	15	14	17
Genetics	66	62	79	53	74	87	100	95
Microbiology, immunology, and virology	222	210	196	197	235	214	216	210
Nutrition	59	57	56	56	53	50	49	50
Pathology	85	84	94	83	87	90	78	71
Pharmacology	116	150	146	138	168	174	158	136
Physiology	212	168	170	166	155	160	178	190
Zoology	23	26	15	13	17	16	14	15
Other	165	166	176	169	195	199	234	269
Computer sciences	2,978	3,299	3,826	3,323	3,440	3,810	3,794	3,485
Earth, atmospheric, and ocean sciences	253	238	208	179	171	158	163	207
Atmospheric	36	38	33	25	15	16	34	35
Earth	118	96	78	72	84	79	63	70
Ocean	35	36	31	29	21	27	17	27
Other	64	68	66	53	51	36	49	75
Mathematics and statistics	622	704	565	531	552	653	739	736
Mathematics/applied mathematics	499	570	471	435	480	546	631	594
Statistics	123	134	94	96	72	107	108	142
Physical sciences	1,044	1,150	1,046	951	916	893	970	1,060
Astronomy	22	17	18	19	21	26	36	23
Chemistry	628	694	638	606	551	539	593	643
Physics	381	432	373	317	334	312	322	380
Other	13	7	17	9	10	16	19	14
Psychology	510	551	536	532	548	553	576	561
Clinical	125	127	126	116	110	103	104	109
General	155	189	172	192	187	185	231	237
Nonclinical	230	235	238	224	251	265	241	215

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Social sciences	1,594	1,527	1,471	1,293	1,340	1,545	1,751	1,855
Agricultural economics	27	29	35	17	14	19	20	16
Anthropology (cultural and social)	74	74	73	68	67	78	94	90
Economics	350	386	357	264	293	326	362	335
Geography	58	42	47	39	42	55	62	66
History and philosophy of science	15	13	11	11	11	12	12	28
Linguistics	62	54	34	28	48	48	55	48
Political science and public administration	611	548	529	526	521	634	687	787
Sociology	141	143	144	117	120	120	136	125
Other	256	238	241	223	224	253	323	360
Engineering	6,351	6,178	6,152	5,490	5,936	6,728	7,654	7,218
Aerospace	137	119	132	180	111	155	171	161
Agricultural	32	30	26	19	23	23	20	31
Biomedical	228	182	203	236	263	288	385	503
Chemical	361	321	310	336	334	362	352	334
Civil	760	791	615	506	492	557	658	641
Electrical	2,797	2,734	2,787	2,457	2,726	3,107	3,442	3,071
Engineering science/physics	157	143	127	84	98	118	116	120
Industrial/manufacturing	563	487	586	464	492	611	738	697
Mechanical	804	835	829	674	777	743	861	817
Metallurgical/materials	218	197	155	173	166	196	217	249
Mining	36	44	40	10	11	19	3	5
Nuclear	26	28	16	19	19	24	21	28
Petroleum	14	3	10	37	35	38	9	17
Other	218	264	316	295	389	487	661	544
Black	8,329	8,320	8,565	8,298	8,383	8,910	9,456	9,812
Science	6,366	6,378	6,576	6,348	6,449	6,898	7,285	7,531
Agricultural sciences	128	168	159	139	126	162	194	153
Biological sciences	753	764	761	760	792	813	858	861
Anatomy	17	13	12	10	6	14	15	17
Biochemistry	63	67	64	63	53	50	63	59
Biology	280	260	262	243	248	231	253	245
Biometry/epidemiology	54	56	58	46	49	62	63	70
Biophysics	10	10	9	10	10	10	9	13
Botany	8	10	8	7	11	12	12	6
Cell/molecular biology	52	59	49	59	63	68	55	63
Ecology	6	9	11	13	13	9	16	8
Entomology/parasitology	6	5	9	6	9	9	5	2
Genetics	15	17	20	25	23	20	20	15
Microbiology, immunology, and virology	72	61	62	68	57	65	72	83
Nutrition	38	44	42	41	46	52	38	49
Pathology	9	14	14	13	19	19	21	16
Pharmacology	41	51	55	56	59	54	70	67
Physiology	30	37	27	42	42	36	35	35
Zoology	3	4	5	5	5	7	5	4
Other	49	47	54	53	79	95	106	109
Computer sciences	765	764	815	844	943	1,063	1,128	1,104
Earth, atmospheric, and ocean sciences	105	103	112	120	125	135	130	119
Atmospheric	8	5	3	9	12	15	20	22
Earth	36	35	31	32	32	37	40	40
Ocean	11	10	14	14	16	13	9	8
Other	50	53	64	65	65	70	61	49
Mathematics and statistics	347	339	324	299	320	340	373	364
Mathematics/applied mathematics	321	307	295	270	284	296	318	302
Statistics	26	32	29	29	36	44	55	62
Physical sciences	508	481	501	493	462	486	508	541
Astronomy	6	6	6	5	8	6	4	4
Chemistry	319	303	315	308	290	304	314	333

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Physics	174	159	164	168	158	168	179	191
Other	9	13	16	12	6	8	11	13
Psychology	908	887	905	871	868	946	934	1,243
Clinical	162	165	165	163	148	153	147	170
General	420	370	353	326	323	344	364	644
Nonclinical	326	352	387	382	397	449	423	429
Social sciences	2,852	2,872	2,999	2,822	2,813	2,953	3,160	3,146
Agricultural economics	29	45	49	42	41	42	40	24
Anthropology (cultural and social)	79	82	82	74	58	59	61	55
Economics	197	191	158	162	163	185	209	224
Geography	47	65	48	47	61	55	61	65
History and philosophy of science	6	8	7	8	7	13	16	20
Linguistics	15	14	13	13	15	17	14	15
Political science and public administration	1,445	1,456	1,567	1,445	1,468	1,590	1,610	1,698
Sociology	384	387	373	325	316	323	343	306
Other	650	624	702	706	684	669	806	739
Engineering	1,963	1,942	1,989	1,950	1,934	2,012	2,171	2,281
Aerospace	28	27	44	49	41	45	50	54
Agricultural	14	17	17	13	10	9	12	9
Biomedical	34	42	54	55	60	69	70	78
Chemical	85	105	68	89	78	79	95	95
Civil	299	277	277	270	273	271	273	292
Electrical	680	680	686	629	620	645	629	666
Engineering science/physics	31	32	28	21	23	29	36	26
Industrial/manufacturing	270	257	309	310	349	352	419	441
Mechanical	324	308	287	292	273	279	296	278
Metallurgical/materials	68	44	49	51	61	61	59	57
Mining	0	1	1	4	1	1	2	5
Nuclear	12	9	7	6	7	5	4	8
Petroleum	5	5	5	7	3	6	10	17
Other	113	138	157	154	135	161	216	255
Hispanic	7,695	7,842	8,196	8,268	8,514	9,191	10,183	10,682
Science	5,522	5,629	5,974	5,988	6,173	6,691	7,261	7,586
Agricultural sciences	248	211	209	223	210	197	251	270
Biological sciences	897	924	968	963	1,009	1,123	1,218	1,264
Anatomy	8	11	15	14	13	27	26	17
Biochemistry	71	72	82	74	87	96	119	104
Biology	325	315	318	330	313	349	353	357
Biometry/epidemiology	39	49	47	54	46	71	78	76
Biophysics	13	13	15	12	17	17	22	21
Botany	29	26	22	20	23	23	20	22
Cell/molecular biology	59	62	76	68	84	90	96	113
Ecology	27	23	15	18	18	22	20	26
Entomology/parasitology	26	18	16	18	21	16	16	18
Genetics	18	25	25	24	24	28	24	28
Microbiology, immunology, and virology	69	84	94	89	100	104	117	122
Nutrition	30	27	31	25	28	20	37	54
Pathology	19	19	28	25	31	28	30	33
Pharmacology	42	43	40	50	53	54	55	68
Physiology	33	43	44	39	34	38	45	41
Zoology	17	18	21	16	16	20	22	14
Other	72	76	79	87	101	120	138	150
Computer sciences	513	559	653	617	650	733	815	867
Earth, atmospheric, and ocean sciences	236	202	200	186	196	191	223	235
Atmospheric	9	11	4	8	8	10	13	15
Earth	102	83	84	80	77	82	87	106
Ocean	59	48	62	54	72	60	72	70
Other	66	60	50	44	39	39	51	44

TABLE D-3. Male S&amp;E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Mathematics and statistics	254	276	270	310	322	335	381	391
Mathematics/applied mathematics	234	251	241	277	295	307	342	344
Statistics	20	25	29	33	27	28	39	47
Physical sciences	499	525	549	507	539	605	678	743
Astronomy	9	10	10	14	12	9	14	10
Chemistry	288	315	329	315	337	361	411	441
Physics	197	183	188	162	181	221	237	272
Other	5	17	22	16	9	14	16	20
Psychology	860	881	957	1,039	1,048	1,128	1,131	1,132
Clinical	245	261	260	323	333	360	379	367
General	277	276	278	264	280	267	268	284
Nonclinical	338	344	419	452	435	501	484	481
Social sciences	2,015	2,051	2,168	2,143	2,199	2,379	2,564	2,684
Agricultural economics	32	21	19	23	22	17	24	27
Anthropology (cultural and social)	143	149	129	148	159	166	176	161
Economics	185	178	159	160	204	214	235	236
Geography	60	64	64	57	59	71	87	78
History and philosophy of science	8	8	14	11	12	37	22	30
Linguistics	51	33	35	39	33	45	43	63
Political science and public administration	886	902	979	1,009	932	1,057	1,167	1,279
Sociology	213	243	262	234	242	261	257	260
Other	437	453	507	462	536	511	553	550
Engineering	2,173	2,213	2,222	2,280	2,341	2,500	2,922	3,096
Aerospace	63	67	70	67	54	69	93	96
Agricultural	12	10	12	11	11	8	6	4
Biomedical	39	53	50	63	70	78	98	116
Chemical	105	114	128	113	108	122	143	132
Civil	488	504	498	540	508	504	564	612
Electrical	689	692	631	618	683	766	890	913
Engineering science/physics	32	30	29	26	29	39	44	39
Industrial/manufacturing	281	247	291	298	302	302	383	418
Mechanical	298	332	336	317	342	367	441	488
Metallurgical/materials	52	54	49	60	54	51	60	67
Mining	6	4	2	1	1	1	3	5
Nuclear	16	18	23	22	25	17	24	21
Petroleum	8	5	3	43	46	46	7	9
Other	84	83	100	101	108	130	166	176
American Indian/Alaska Native	804	797	744	734	808	811	890	855
Science	624	624	569	596	646	636	671	654
Agricultural sciences	34	45	46	34	35	36	38	35
Biological sciences	91	88	80	79	95	88	89	92
Anatomy	1	1	1	3	3	2	1	0
Biochemistry	7	9	2	5	9	5	5	3
Biology	30	24	27	22	27	22	22	22
Biometry/epidemiology	4	2	2	2	2	4	3	2
Biophysics	0	0	0	0	0	1	1	4
Botany	0	1	0	0	4	4	4	4
Cell/molecular biology	2	4	1	2	1	2	3	6
Ecology	2	2	3	2	3	2	4	3
Entomology/parasitology	1	1	0	0	1	4	3	3
Genetics	1	1	1	1	1	1	4	3
Microbiology, immunology, and virology	6	9	11	16	10	14	9	9
Nutrition	1	3	2	1	0	1	1	2
Pathology	8	7	6	5	9	3	1	0
Pharmacology	3	2	4	4	7	8	11	10
Physiology	3	5	3	1	3	1	3	4
Zoology	10	6	4	3	5	3	4	3
Other	12	11	13	12	10	11	10	14

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Computer sciences	43	68	50	50	58	52	68	63
Earth, atmospheric, and ocean sciences	47	44	32	33	37	45	30	40
Atmospheric	1	2	2	3	3	4	5	4
Earth	21	18	13	17	17	18	14	22
Ocean	9	9	7	6	6	5	2	2
Other	16	15	10	7	11	18	9	12
Mathematics and statistics	29	16	12	15	22	18	18	26
Mathematics/applied mathematics	27	15	11	14	20	14	17	26
Statistics	2	1	1	1	2	4	1	0
Physical sciences	46	41	40	54	54	55	54	50
Astronomy	0	1	1	1	0	1	1	1
Chemistry	30	28	30	43	39	38	33	34
Physics	15	10	8	9	15	15	19	13
Other	1	2	1	1	0	1	1	2
Psychology	118	87	88	103	83	83	95	89
Clinical	39	28	30	32	23	28	32	31
General	35	25	26	37	24	14	22	25
Nonclinical	44	34	32	34	36	41	41	33
Social sciences	216	235	221	228	262	259	279	259
Agricultural economics	0	2	6	6	4	2	5	11
Anthropology (cultural and social)	44	49	45	49	46	37	35	39
Economics	8	11	4	6	12	16	16	13
Geography	10	8	9	13	18	19	18	13
History and philosophy of science	1	1	1	0	0	1	3	4
Linguistics	3	2	5	5	4	4	6	8
Political science and public administration	69	88	86	85	93	98	108	82
Sociology	26	23	26	20	25	29	26	25
Other	55	51	39	44	60	53	62	64
Engineering	180	173	175	138	162	175	219	201
Aerospace	3	7	8	6	6	9	11	13
Agricultural	6	2	1	1	1	0	0	1
Biomedical	5	5	7	4	4	4	4	11
Chemical	10	13	11	9	5	13	13	14
Civil	41	31	43	29	29	40	42	35
Electrical	39	25	36	26	39	27	49	43
Engineering science/physics	3	6	5	6	7	6	7	6
Industrial/manufacturing	17	23	23	27	30	27	37	37
Mechanical	27	20	25	18	23	23	35	18
Metallurgical/materials	9	27	5	3	6	9	6	6
Mining	0	0	0	1	0	2	3	1
Nuclear	2	1	1	0	0	2	1	3
Petroleum	1	2	0	1	1	1	0	0
Other	17	11	10	7	11	12	11	13
Other race/ethnicity	10,932	10,901	10,462	11,537	11,862	12,797	14,199	15,197
Science	7,310	7,471	7,392	8,196	8,549	9,155	9,795	10,759
Agricultural sciences	194	165	167	237	283	243	241	247
Biological sciences	1,053	1,122	1,171	1,184	1,122	1,196	1,400	1,502
Anatomy	17	19	9	5	7	13	14	20
Biochemistry	82	70	81	84	98	118	147	125
Biology	379	407	399	337	276	289	359	437
Biometry/epidemiology	53	87	84	78	99	63	76	103
Biophysics	29	46	25	25	16	25	29	32
Botany	27	28	30	33	29	30	33	33
Cell/molecular biology	71	65	96	128	135	152	181	157
Ecology	50	33	22	45	44	56	78	76
Entomology/parasitology	11	12	13	11	19	19	21	21
Genetics	13	14	36	56	43	49	56	54
Microbiology, immunology, and virology	64	75	137	137	136	124	118	106

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Nutrition	24	30	25	34	34	38	25	30
Pathology	39	37	29	26	33	32	31	25
Pharmacology	25	31	27	26	19	27	45	43
Physiology	43	30	40	42	34	37	32	29
Zoology	10	43	16	24	21	24	28	19
Other	116	95	102	93	79	100	127	192
Computer sciences	1,658	1,588	1,711	2,009	2,129	2,339	2,343	2,396
Earth, atmospheric, and ocean sciences	332	334	270	262	257	319	381	365
Atmospheric	42	15	19	17	18	21	28	24
Earth	165	167	152	143	129	175	208	171
Ocean	33	43	26	23	35	32	41	45
Other	92	109	73	79	75	91	104	125
Mathematics and statistics	438	467	379	423	437	537	660	667
Mathematics/applied mathematics	411	428	347	388	387	470	594	577
Statistics	27	39	32	35	50	67	66	90
Physical sciences	689	759	689	717	921	911	965	1,032
Astronomy	10	30	21	21	28	28	28	28
Chemistry	368	368	330	279	321	356	421	462
Physics	309	325	259	329	498	455	450	481
Other	2	36	79	88	74	72	66	61
Psychology	1,045	976	985	938	800	817	817	1,120
Clinical	184	130	181	145	176	175	178	271
General	238	294	257	278	248	221	256	272
Nonclinical	623	552	547	515	376	421	383	577
Social sciences	1,901	2,060	2,020	2,426	2,600	2,793	2,988	3,430
Agricultural economics	30	39	15	29	48	44	36	35
Anthropology (cultural and social)	114	125	155	189	209	175	201	213
Economics	257	286	187	304	313	374	352	324
Geography	124	162	129	124	106	107	126	144
History and philosophy of science	22	10	10	16	20	29	29	49
Linguistics	44	42	43	63	58	76	80	77
Political science and public administration	861	864	806	928	1,025	1,213	1,374	1,748
Sociology	110	109	113	161	155	160	148	166
Other	339	423	562	612	666	615	642	674
Engineering	3,622	3,430	3,070	3,341	3,313	3,642	4,404	4,438
Aerospace	50	60	69	77	94	126	178	165
Agricultural	26	19	10	14	12	6	15	8
Biomedical	90	79	52	56	99	109	165	160
Chemical	164	176	170	161	101	127	137	126
Civil	491	447	423	411	432	493	535	538
Electrical	1,404	1,315	1,190	1,338	1,221	1,273	1,473	1,384
Engineering science/physics	28	25	39	84	109	72	43	50
Industrial/manufacturing	453	494	415	461	451	493	650	717
Mechanical	515	532	400	427	447	517	665	665
Metallurgical/materials	154	98	70	72	86	83	75	104
Mining	8	14	4	3	5	1	15	8
Nuclear	5	5	6	2	6	9	15	25
Petroleum	7	1	2	42	40	57	11	9
Other	227	165	220	193	210	276	427	479
Temporary residents	70,685	71,939	76,963	86,034	93,797	101,244	101,333	97,198
Science	40,368	40,757	42,966	47,324	51,105	54,100	53,490	52,418
Agricultural sciences	1,954	1,808	1,683	1,564	1,576	1,601	1,558	1,593
Biological sciences	5,941	5,886	5,748	5,918	6,054	6,673	6,929	7,230
Anatomy	109	97	87	104	102	115	102	96
Biochemistry	816	820	793	869	825	909	983	1,035
Biology	1,062	1,059	1,015	1,027	1,064	1,173	1,178	1,222
Biometry/epidemiology	256	344	375	388	391	487	498	514
Biophysics	126	121	111	148	188	214	211	237

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Botany	346	327	331	315	301	315	291	290
Cell/molecular biology	474	471	424	468	520	566	640	704
Ecology	107	100	100	101	110	126	136	142
Entomology/parasitology	205	211	218	195	190	187	181	186
Genetics	239	199	211	196	224	206	241	244
Microbiology, immunology, and virology	526	496	461	466	460	566	509	512
Nutrition	413	365	378	385	396	406	450	408
Pathology	169	155	169	170	156	145	149	155
Pharmacology	284	294	290	306	298	289	332	359
Physiology	254	254	266	257	218	230	257	259
Zoology	116	112	91	92	113	121	91	94
Other	439	461	428	431	498	618	680	773
Computer sciences	9,234	10,197	12,022	15,588	18,395	19,247	17,511	15,883
Earth, atmospheric, and ocean sciences	1,796	1,736	1,663	1,796	1,801	1,756	1,733	1,708
Atmospheric	193	167	169	202	179	189	174	164
Earth	1,003	950	893	947	970	947	956	946
Ocean	343	351	332	324	308	281	293	279
Other	257	268	269	323	344	339	310	319
Mathematics and statistics	3,845	3,638	3,866	3,938	4,141	4,517	4,652	4,656
Mathematics/applied mathematics	3,236	3,048	3,165	3,203	3,328	3,628	3,676	3,666
Statistics	609	590	701	735	813	889	976	990
Physical sciences	7,884	7,818	8,079	8,372	8,726	9,202	9,830	10,041
Astronomy	146	164	186	201	209	230	241	273
Chemistry	3,927	3,902	3,945	3,943	4,167	4,511	4,819	4,864
Physics	3,776	3,712	3,900	4,173	4,290	4,403	4,694	4,854
Other	35	40	48	55	60	58	76	50
Psychology	750	798	790	752	777	1,092	1,155	1,245
Clinical	107	113	116	84	94	222	229	102
General	288	309	285	312	327	419	456	726
Nonclinical	355	376	389	356	356	451	470	417
Social sciences	8,964	8,876	9,115	9,396	9,635	10,012	10,122	10,062
Agricultural economics	646	614	603	638	640	630	664	616
Anthropology (cultural and social)	328	352	375	364	348	387	366	373
Economics	3,738	3,584	3,753	3,857	4,124	4,290	4,184	4,078
Geography	327	350	361	384	432	427	447	454
History and philosophy of science	46	44	41	39	45	41	47	44
Linguistics	353	367	362	346	330	328	336	347
Political science and public administration	2,067	2,128	2,278	2,360	2,320	2,417	2,579	2,626
Sociology	578	511	511	532	522	538	552	519
Other	881	926	831	876	874	954	947	1,005
Engineering	30,317	31,182	33,997	38,710	42,692	47,144	47,843	44,780
Aerospace	1,174	1,259	1,364	1,326	1,436	1,470	1,474	1,465
Agricultural	330	304	307	291	308	314	360	351
Biomedical	530	534	607	668	766	1,024	1,272	1,333
Chemical	2,220	2,217	2,301	2,509	2,651	2,804	2,757	2,655
Civil	4,054	3,906	4,223	4,777	5,047	5,464	5,586	5,228
Electrical	10,702	11,571	12,561	15,006	16,734	18,767	18,813	17,241
Engineering science/physics	379	441	430	530	590	704	780	800
Industrial/manufacturing	2,764	2,769	3,074	3,728	4,415	4,753	4,463	4,090
Mechanical	5,081	5,041	5,549	6,357	6,842	7,616	7,762	7,140
Metallurgical/materials	1,551	1,557	1,577	1,652	1,785	1,927	1,956	1,926
Mining	117	72	97	118	100	95	99	110
Nuclear	260	248	275	274	287	270	286	282
Petroleum	353	408	429	315	338	401	570	550
Other	802	855	1,203	1,159	1,393	1,535	1,665	1,609

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

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1997–2004.