

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1996–2003

Field, sex, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
All S&E	18,647	18,393	18,256	17,565	17,114	16,338	15,508	15,669
Female	6,965	6,988	7,171	7,071	7,132	6,911	6,700	6,801
Male	11,682	11,391	11,067	10,494	9,980	9,427	8,807	8,866
Unknown	0	14	18	0	2	0	1	2
White	13,996	13,828	14,003	13,718	13,443	12,754	11,909	11,989
Female	5,349	5,266	5,493	5,457	5,511	5,283	5,038	5,117
Male	8,647	8,560	8,510	8,261	7,932	7,471	6,870	6,872
Unknown	0	2	0	0	0	0	1	0
Asian ^a	3,079	2,529	2,135	1,932	1,706	1,616	1,616	1,505
Female	974	889	760	715	679	681	677	636
Male	2,105	1,639	1,369	1,217	1,027	935	939	868
Unknown	0	1	6	0	0	0	0	1
Black	572	615	644	714	710	703	685	661
Female	251	286	351	367	391	375	370	376
Male	321	329	293	347	319	328	315	285
Hispanic	626	658	754	722	729	673	724	738
Female	273	266	326	362	349	337	379	362
Male	353	392	428	360	379	336	345	376
Unknown	0	0	0	0	1	0	0	0
American Indian/Alaska Native	95	79	96	114	88	74	70	72
Female	35	34	42	55	45	32	33	38
Male	60	45	54	59	43	42	37	34
Other/unknown race/ethnicity ^b	279	684	624	365	438	518	504	704
Female	83	247	199	115	157	203	203	272
Male	196	426	413	250	280	315	301	431
Unknown	0	11	12	0	1	0	0	1
Science	15,258	15,061	15,212	14,677	14,543	13,899	13,345	13,506
Female	6,439	6,476	6,719	6,580	6,641	6,433	6,258	6,364
Male	8,819	8,572	8,481	8,097	7,900	7,466	7,086	7,140
Unknown	0	13	12	0	2	0	1	2
White	11,733	11,540	11,833	11,609	11,554	11,007	10,433	10,433
Female	5,001	4,934	5,186	5,106	5,177	4,965	4,762	4,817
Male	6,732	6,604	6,647	6,503	6,377	6,042	5,670	5,616
Unknown	0	2	0	0	0	0	1	0
Asian ^a	2,183	1,822	1,581	1,420	1,267	1,195	1,208	1,166
Female	840	770	663	631	570	583	579	556
Male	1,343	1,051	915	789	697	612	629	609
Unknown	0	1	3	0	0	0	0	1
Black	498	517	563	616	629	611	600	586
Female	232	263	329	343	367	350	342	358
Male	266	254	234	273	262	261	258	228
Hispanic	527	562	644	639	647	583	627	635
Female	258	243	313	339	336	315	354	339
Male	269	319	331	300	310	268	273	296
Unknown	0	0	0	0	1	0	0	0
American Indian/Alaska Native	81	62	83	102	80	67	63	61
Female	33	31	38	53	41	30	33	36
Male	48	31	45	49	39	37	30	25
Other/unknown race/ethnicity ^b	236	558	508	291	366	436	414	625
Female	75	235	190	108	150	190	188	258
Male	161	313	309	183	215	246	226	366
Unknown	0	10	9	0	1	0	0	1
Agricultural sciences	575	550	543	494	502	431	421	477
Female	174	155	183	161	166	165	152	160
Male	401	394	360	333	336	266	268	317
Unknown	0	1	0	0	0	0	1	0

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Field, sex, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
White	442	411	417	398	414	371	357	396
Female	135	118	140	125	136	135	125	127
Male	307	293	277	273	278	236	231	269
Unknown	0	0	0	0	0	0	1	0
Asian ^a	80	63	47	46	30	16	23	21
Female	29	18	18	18	9	9	12	12
Male	51	45	29	28	21	7	11	9
Black	24	24	19	24	18	13	12	16
Female	0	6	4	8	8	6	5	6
Male	24	18	15	16	10	7	7	10
Hispanic	13	26	35	15	26	20	18	22
Female	4	7	13	7	11	10	7	8
Male	9	19	22	8	15	10	11	14
American Indian/Alaska Native	6	5	9	1	4	0	2	4
Female	4	0	2	0	1	0	0	1
Male	2	5	7	1	3	0	2	3
Other/unknown race/ethnicity ^b	10	21	16	10	10	11	9	18
Female	2	6	6	3	1	5	3	6
Male	8	14	10	7	9	6	6	12
Unknown	0	1	0	0	0	0	0	0
Biological sciences	4,364	4,256	4,308	4,124	4,268	4,243	4,111	4,047
Female	1,941	1,920	1,921	1,864	1,987	1,971	1,918	1,911
Male	2,423	2,333	2,385	2,260	2,281	2,272	2,193	2,134
Unknown	0	3	2	0	0	0	0	2
White	3,170	3,158	3,246	3,128	3,308	3,255	3,117	3,053
Female	1,399	1,398	1,436	1,402	1,510	1,487	1,392	1,447
Male	1,771	1,759	1,810	1,726	1,798	1,768	1,725	1,606
Unknown	0	1	0	0	0	0	0	0
Asian ^a	885	721	657	608	539	546	561	524
Female	403	348	291	276	263	266	290	249
Male	482	373	365	332	276	280	271	274
Unknown	0	0	1	0	0	0	0	1
Black	98	112	111	116	118	139	124	108
Female	40	60	70	66	74	84	67	64
Male	58	52	41	50	44	55	57	44
Hispanic	131	146	168	175	173	165	182	175
Female	66	63	79	76	91	77	114	79
Male	65	83	89	99	82	88	68	96
American Indian/Alaska Native	20	7	12	20	17	15	12	11
Female	9	3	6	10	7	7	6	8
Male	11	4	6	10	10	8	6	3
Other/unknown race/ethnicity ^b	60	112	114	77	113	123	115	176
Female	24	48	39	34	42	50	49	64
Male	36	62	74	43	71	73	66	111
Unknown	0	2	1	0	0	0	0	1
Computer sciences	514	520	561	492	457	423	419	440
Female	91	100	123	105	86	98	97	97
Male	423	419	437	387	371	325	322	343
Unknown	0	1	1	0	0	0	0	0
White	356	361	412	356	336	322	290	304
Female	61	66	84	71	62	60	59	64
Male	295	295	328	285	274	262	231	240
Asian ^a	111	107	90	87	76	61	86	79
Female	16	26	23	19	15	20	26	17
Male	95	81	67	68	61	41	60	62

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Field, sex, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Black	12	4	14	18	18	15	17	17
Female	3	1	8	9	5	10	7	5
Male	9	3	6	9	13	5	10	12
Hispanic	16	16	15	14	14	8	14	10
Female	7	2	1	3	3	4	2	4
Male	9	14	14	11	11	4	12	6
American Indian/Alaska Native	4	1	4	1	1	1	2	2
Female	2	1	0	1	0	0	0	0
Male	2	0	4	0	1	1	2	2
Other/unknown race/ethnicity ^b	15	31	26	16	12	16	10	28
Female	2	4	7	2	1	4	3	7
Male	13	26	18	14	11	12	7	21
Unknown	0	1	1	0	0	0	0	0
Earth, atmospheric, and ocean sciences	558	607	562	526	510	467	494	512
Female	130	164	171	153	168	163	187	185
Male	428	442	391	373	342	304	307	327
Unknown	0	1	0	0	0	0	0	0
White	449	488	464	434	431	396	424	429
Female	109	129	140	127	141	140	160	149
Male	340	358	324	307	290	256	264	280
Unknown	0	1	0	0	0	0	0	0
Asian ^a	77	70	51	39	28	34	30	25
Female	12	19	19	11	11	10	13	11
Male	65	51	32	28	17	24	17	14
Black	4	8	8	14	7	6	6	17
Female	2	1	2	5	4	2	0	7
Male	2	7	6	9	3	4	6	10
Hispanic	19	16	16	21	18	15	17	18
Female	6	5	6	4	3	9	3	9
Male	13	11	10	17	15	6	14	9
American Indian/Alaska Native	2	2	3	6	5	0	0	2
Female	0	1	1	3	1	0	0	1
Male	2	1	2	3	4	0	0	1
Other/unknown race/ethnicity ^b	7	23	20	12	21	16	17	21
Female	1	9	3	3	8	2	11	8
Male	6	14	17	9	13	14	6	13
Mathematics and statistics	648	629	669	605	574	524	442	516
Female	145	177	198	192	164	154	134	152
Male	503	452	470	413	409	370	308	364
Unknown	0	0	1	0	1	0	0	0
White	478	479	526	506	464	428	369	407
Female	105	135	150	159	126	120	111	110
Male	373	344	376	347	338	308	258	297
Asian ^a	140	97	71	56	70	48	28	51
Female	36	28	27	20	21	16	5	24
Male	104	69	44	36	49	32	23	27
Black	8	7	16	12	14	19	14	16
Female	2	2	7	6	7	7	8	5
Male	6	5	9	6	7	12	6	11
Hispanic	11	20	27	15	15	15	12	16
Female	0	6	7	5	7	5	4	7
Male	11	14	20	10	8	10	8	9
American Indian/Alaska Native	1	1	3	1	2	2	3	2
Female	0	0	2	0	1	1	1	1
Male	1	1	1	1	1	1	2	1

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Field, sex, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Other/unknown race/ethnicity ^b	10	25	26	15	9	12	16	24
Female	2	6	5	2	2	5	5	5
Male	8	19	20	13	6	7	11	19
Unknown	0	0	1	0	1	0	0	0
Physical sciences	2,571	2,497	2,455	2,277	2,092	2,045	1,939	1,966
Female	610	587	604	553	546	527	541	567
Male	1,961	1,909	1,849	1,724	1,546	1,518	1,398	1,399
Unknown	0	1	2	0	0	0	0	0
White	1,886	1,884	1,916	1,840	1,691	1,649	1,547	1,552
Female	430	412	449	396	419	395	419	426
Male	1,456	1,472	1,467	1,444	1,272	1,254	1,128	1,126
Asian ^a	501	400	331	252	203	197	194	181
Female	145	132	101	93	71	73	62	70
Male	356	267	228	159	132	124	132	111
Unknown	0	1	2	0	0	0	0	0
Black	59	51	56	66	62	55	67	57
Female	13	11	31	29	21	20	28	21
Male	46	40	25	37	41	35	39	36
Hispanic	67	69	54	63	78	65	64	72
Female	12	15	11	22	25	22	22	23
Male	55	54	43	41	53	43	42	49
American Indian/Alaska Native	6	10	9	9	9	12	7	2
Female	1	0	1	3	2	2	0	1
Male	5	10	8	6	7	10	7	1
Other/unknown race/ethnicity ^b	52	83	89	47	49	67	60	102
Female	9	17	11	10	8	15	10	26
Male	43	66	78	37	41	52	50	76
Psychology	3,233	3,125	3,274	3,292	3,231	3,033	2,794	2,846
Female	2,185	2,106	2,211	2,229	2,178	2,050	1,878	1,954
Male	1,048	1,014	1,058	1,063	1,052	983	916	892
Unknown	0	5	5	0	1	0	0	0
White	2,744	2,523	2,645	2,701	2,607	2,454	2,228	2,254
Female	1,835	1,690	1,763	1,789	1,725	1,628	1,480	1,542
Male	909	833	882	912	882	826	748	712
Asian ^a	121	126	113	132	145	116	119	118
Female	90	95	84	98	99	91	80	81
Male	31	31	29	34	46	25	39	37
Black	152	152	158	172	189	174	171	168
Female	114	111	115	135	144	124	129	125
Male	38	41	43	37	45	50	42	43
Hispanic	173	171	208	215	211	175	185	169
Female	120	107	152	158	151	129	129	115
Male	53	64	56	57	59	46	56	54
Unknown	0	0	0	0	1	0	0	0
American Indian/Alaska Native	17	18	31	35	22	17	15	22
Female	9	12	18	23	19	12	8	14
Male	8	6	13	12	3	5	7	8
Other/unknown race/ethnicity ^b	26	135	119	37	57	97	76	115
Female	17	91	79	26	40	66	52	77
Male	9	39	35	11	17	31	24	38
Unknown	0	5	5	0	0	0	0	0
Social sciences	2,795	2,877	2,840	2,867	2,909	2,733	2,725	2,702
Female	1,163	1,267	1,308	1,323	1,346	1,305	1,351	1,338
Male	1,632	1,609	1,531	1,544	1,563	1,428	1,374	1,364
Unknown	0	1	1	0	0	0	0	0
White	2,208	2,236	2,207	2,246	2,303	2,132	2,101	2,038
Female	927	986	1,024	1,037	1,058	1,000	1,016	952
Male	1,281	1,250	1,183	1,209	1,245	1,132	1,085	1,086

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Field, sex, and race/ethnicity	1996	1997	1998	1999	2000	2001	2002	2003
Asian ^a	268	238	221	200	176	177	167	167
Female	109	104	100	96	81	98	91	92
Male	159	134	121	104	95	79	76	75
Black	141	159	181	194	203	190	189	187
Female	58	71	92	85	104	97	98	125
Male	83	88	89	109	99	93	91	62
Hispanic	97	98	121	121	112	120	135	153
Female	43	38	44	64	45	59	73	94
Male	54	60	77	57	67	61	62	59
American Indian/Alaska Native	25	18	12	29	20	20	22	16
Female	8	14	8	13	10	8	18	10
Male	17	4	4	16	10	12	4	6
Other/unknown race/ethnicity ^b	56	128	98	77	95	94	111	141
Female	18	54	40	28	48	43	55	65
Male	38	73	57	49	47	51	56	76
Unknown	0	1	1	0	0	0	0	0
Engineering	3,389	3,332	3,044	2,888	2,571	2,439	2,163	2,163
Female	526	512	452	491	491	478	442	437
Male	2,863	2,819	2,586	2,397	2,080	1,961	1,721	1,726
Unknown	0	1	6	0	0	0	0	0
White	2,263	2,288	2,170	2,109	1,889	1,747	1,476	1,556
Female	348	332	307	351	334	318	276	300
Male	1,915	1,956	1,863	1,758	1,555	1,429	1,200	1,256
Asian ^a	896	707	554	512	439	421	408	339
Female	134	119	97	84	109	98	98	80
Male	762	588	454	428	330	323	310	259
Unknown	0	0	3	0	0	0	0	0
Black	74	98	81	98	81	92	85	75
Female	19	23	22	24	24	25	28	18
Male	55	75	59	74	57	67	57	57
Hispanic	99	96	110	83	82	90	97	103
Female	15	23	13	23	13	22	25	23
Male	84	73	97	60	69	68	72	80
American Indian/Alaska Native	14	17	13	12	8	7	7	11
Female	2	3	4	2	4	2	0	2
Male	12	14	9	10	4	5	7	9
Other/unknown race/ethnicity ^b	43	126	116	74	72	82	90	79
Female	8	12	9	7	7	13	15	14
Male	35	113	104	67	65	69	75	65
Unknown	0	1	3	0	0	0	0	0

^a Includes Native Hawaiians/other Pacific Islanders through 2000, but excludes them in 2001–03 per revised Office of Management and Budget guidelines.

^b Includes only those with unknown race/ethnicity through 2000. In 2001, this category was expanded to include Native Hawaiians and other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1996–2003.