

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1997-2004

Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All S&E	18,393	18,257	17,567	17,114	16,346	15,512	15,715	15,721
Female	6,988	7,172	7,072	7,132	6,913	6,701	6,823	6,842
Male	11,391	11,067	10,495	9,980	9,433	8,810	8,890	8,875
Unknown	14	18	0	2	0	1	2	4
White	13,828	14,004	13,719	13,443	12,760	11,913	12,024	12,018
Female	5,266	5,494	5,457	5,511	5,284	5,039	5,130	5,099
Male	8,560	8,510	8,262	7,932	7,476	6,873	6,894	6,919
Unknown	2	0	0	0	0	1	0	0
Asian ^a	2,529	2,135	1,932	1,706	1,617	1,616	1,511	1,491
Female	889	760	715	679	681	677	639	675
Male	1,639	1,369	1,217	1,027	936	939	871	816
Unknown	1	6	0	0	0	0	1	0
Black	615	644	715	710	703	685	664	746
Female	286	351	368	391	375	370	378	419
Male	329	293	347	319	328	315	286	327
Hispanic	658	754	722	729	674	724	741	715
Female	266	326	362	349	338	379	365	361
Male	392	428	360	379	336	345	376	354
Unknown	0	0	0	1	0	0	0	0
American Indian/Alaska Native	79	96	114	88	73	70	73	61
Female	34	42	55	45	32	33	39	27
Male	45	54	59	43	41	37	34	34
Other/unknown race/ethnicity ^b	684	624	365	438	519	504	702	690
Female	247	199	115	157	203	203	272	261
Male	426	413	250	280	316	301	429	425
Unknown	11	12	0	1	0	0	1	4
Science	15,061	15,213	14,678	14,543	13,900	13,348	13,545	13,539
Female	6,476	6,720	6,581	6,641	6,434	6,259	6,383	6,372
Male	8,572	8,481	8,097	7,900	7,466	7,088	7,160	7,163
Unknown	13	12	0	2	0	1	2	4
White	11,540	11,834	11,609	11,554	11,008	10,436	10,464	10,476
Female	4,934	5,187	5,106	5,177	4,966	4,763	4,829	4,782
Male	6,604	6,647	6,503	6,377	6,042	5,672	5,635	5,694
Unknown	2	0	0	0	0	1	0	0
Asian ^a	1,822	1,581	1,420	1,267	1,195	1,208	1,171	1,137
Female	770	663	631	570	583	579	559	592
Male	1,051	915	789	697	612	629	611	545
Unknown	1	3	0	0	0	0	1	0
Black	517	563	617	629	611	600	587	652
Female	263	329	344	367	350	342	359	386
Male	254	234	273	262	261	258	228	266
Hispanic	562	644	639	647	583	627	638	627
Female	243	313	339	336	315	354	342	340
Male	319	331	300	310	268	273	296	287
Unknown	0	0	0	1	0	0	0	0
American Indian/Alaska Native	62	83	102	80	67	63	61	55
Female	31	38	53	41	30	33	36	25
Male	31	45	49	39	37	30	25	30
Other/unknown race/ethnicity ^b	558	508	291	366	436	414	624	592
Female	235	190	108	150	190	188	258	247
Male	313	309	183	215	246	226	365	341
Unknown	10	9	0	1	0	0	1	4
Agricultural sciences	619	591	561	559	504	491	561	563
Female	175	204	185	195	194	181	200	226
Male	443	387	376	364	310	309	361	337
Unknown	1	0	0	0	0	1	0	0

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Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
White	465	454	456	452	430	416	465	465
Female	134	154	147	158	157	150	157	170
Male	331	300	309	294	273	265	308	295
Unknown	0	0	0	0	0	1	0	0
Asian ^a	73	54	50	36	23	29	25	31
Female	20	24	19	12	12	15	16	23
Male	53	30	31	24	11	14	9	8
Black	26	22	27	22	14	13	22	20
Female	6	5	9	11	6	5	8	11
Male	20	17	18	11	8	8	14	9
Hispanic	27	35	16	29	26	21	25	16
Female	7	13	7	11	14	8	11	11
Male	20	22	9	18	12	13	14	5
American Indian/Alaska Native	5	9	1	5	0	2	4	4
Female	0	2	0	1	0	0	1	2
Male	5	7	1	4	0	2	3	2
Other/unknown race/ethnicity ^b	23	17	11	15	11	10	20	27
Female	8	6	3	2	5	3	7	9
Male	14	11	8	13	6	7	13	18
Unknown	1	0	0	0	0	0	0	0
Biological sciences	4,256	4,308	4,124	4,268	4,243	4,112	4,056	4,187
Female	1,920	1,921	1,864	1,987	1,971	1,918	1,916	1,997
Male	2,333	2,385	2,260	2,281	2,272	2,194	2,138	2,188
Unknown	3	2	0	0	0	0	2	2
White	3,158	3,246	3,128	3,308	3,255	3,118	3,059	3,184
Female	1,398	1,436	1,402	1,510	1,487	1,392	1,450	1,464
Male	1,759	1,810	1,726	1,798	1,768	1,726	1,609	1,720
Unknown	1	0	0	0	0	0	0	0
Asian ^a	721	657	608	539	546	561	526	488
Female	348	291	276	263	266	290	250	258
Male	373	365	332	276	280	271	275	230
Unknown	0	1	0	0	0	0	1	0
Black	112	111	116	118	139	124	108	148
Female	60	70	66	74	84	67	64	89
Male	52	41	50	44	55	57	44	59
Hispanic	146	168	175	173	165	182	176	191
Female	63	79	76	91	77	114	80	107
Male	83	89	99	82	88	68	96	84
American Indian/Alaska Native	7	12	20	17	15	12	11	14
Female	3	6	10	7	7	6	8	4
Male	4	6	10	10	8	6	3	10
Other/unknown race/ethnicity ^b	112	114	77	113	123	115	176	162
Female	48	39	34	42	50	49	64	75
Male	62	74	43	71	73	66	111	85
Unknown	2	1	0	0	0	0	1	2
Computer sciences	520	561	493	457	423	419	443	448
Female	100	123	106	86	98	97	97	102
Male	419	437	387	371	325	322	346	345
Unknown	1	1	0	0	0	0	0	1
White	361	412	356	336	322	290	307	321
Female	66	84	71	62	60	59	64	71
Male	295	328	285	274	262	231	243	250
Asian ^a	107	90	87	76	61	86	80	72
Female	26	23	19	15	20	26	17	19
Male	81	67	68	61	41	60	63	53

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Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Black	4	14	19	18	15	17	17	17
Female	1	8	10	5	10	7	5	5
Male	3	6	9	13	5	10	12	12
Hispanic	16	15	14	14	8	14	10	13
Female	2	1	3	3	4	2	4	3
Male	14	14	11	11	4	12	6	10
American Indian/Alaska Native	1	4	1	1	1	2	2	2
Female	1	0	1	0	0	0	0	0
Male	0	4	0	1	1	2	2	2
Other/unknown race/ethnicity ^b	31	26	16	12	16	10	27	23
Female	4	7	2	1	4	3	7	4
Male	26	18	14	11	12	7	20	18
Unknown	1	1	0	0	0	0	0	1
Earth, atmospheric, and ocean sciences	538	514	459	453	395	424	429	426
Female	144	150	129	139	135	158	145	166
Male	393	364	330	314	260	266	284	260
Unknown	1	0	0	0	0	0	0	0
White	434	427	376	393	338	365	361	367
Female	113	126	105	119	119	135	119	143
Male	320	301	271	274	219	230	242	224
Unknown	1	0	0	0	0	0	0	0
Asian ^a	60	44	35	22	27	24	21	11
Female	17	13	10	8	7	10	7	4
Male	43	31	25	14	20	14	14	7
Black	6	5	11	3	5	5	11	7
Female	1	1	4	1	2	0	5	1
Male	5	4	7	2	3	5	6	6
Hispanic	15	16	20	15	9	14	15	11
Female	5	6	4	3	5	2	6	5
Male	10	10	16	12	4	12	9	6
American Indian/Alaska Native	2	3	6	4	0	0	2	4
Female	1	1	3	1	0	0	1	0
Male	1	2	3	3	0	0	1	4
Other/unknown race/ethnicity ^b	21	19	11	16	16	16	19	26
Female	7	3	3	7	2	11	7	13
Male	14	16	8	9	14	5	12	13
Mathematics and statistics	629	669	605	574	524	442	517	510
Female	177	198	192	164	154	134	152	154
Male	452	470	413	409	370	308	365	356
Unknown	0	1	0	1	0	0	0	0
White	479	526	506	464	428	369	408	398
Female	135	150	159	126	120	111	110	125
Male	344	376	347	338	308	258	298	273
Asian ^a	97	71	56	70	48	28	51	54
Female	28	27	20	21	16	5	24	17
Male	69	44	36	49	32	23	27	37
Black	7	16	12	14	19	14	16	10
Female	2	7	6	7	7	8	5	3
Male	5	9	6	7	12	6	11	7
Hispanic	20	27	15	15	15	12	16	26
Female	6	7	5	7	5	4	7	7
Male	14	20	10	8	10	8	9	19

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Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
American Indian/Alaska Native	1	3	1	2	2	3	2	0
Female	0	2	0	1	1	1	1	0
Male	1	1	1	1	1	2	1	0
Other/unknown race/ethnicity ^b	25	26	15	9	12	16	24	22
Female	6	5	2	2	5	5	5	2
Male	19	20	13	6	7	11	19	20
Unknown	0	1	0	1	0	0	0	0
Physical sciences	2,497	2,455	2,277	2,092	2,045	1,940	1,970	1,866
Female	587	604	553	546	527	541	569	510
Male	1,909	1,849	1,724	1,546	1,518	1,399	1,401	1,356
Unknown	1	2	0	0	0	0	0	0
White	1,884	1,916	1,840	1,691	1,649	1,548	1,554	1,479
Female	412	449	396	419	395	419	426	390
Male	1,472	1,467	1,444	1,272	1,254	1,129	1,128	1,089
Asian ^a	400	331	252	203	197	194	183	162
Female	132	101	93	71	73	62	72	53
Male	267	228	159	132	124	132	111	109
Unknown	1	2	0	0	0	0	0	0
Black	51	56	66	62	55	67	57	59
Female	11	31	29	21	20	28	21	25
Male	40	25	37	41	35	39	36	34
Hispanic	69	54	63	78	65	64	72	62
Female	15	11	22	25	22	22	23	24
Male	54	43	41	53	43	42	49	38
American Indian/Alaska Native	10	9	9	9	12	7	2	5
Female	0	1	3	2	2	0	1	1
Male	10	8	6	7	10	7	1	4
Other/unknown race/ethnicity ^b	83	89	47	49	67	60	102	99
Female	17	11	10	8	15	10	26	17
Male	66	78	37	41	52	50	76	82
Psychology	3,125	3,275	3,292	3,231	3,033	2,795	2,857	2,789
Female	2,106	2,212	2,229	2,178	2,050	1,879	1,963	1,893
Male	1,014	1,058	1,063	1,052	983	916	894	895
Unknown	5	5	0	1	0	0	0	1
White	2,523	2,646	2,701	2,607	2,454	2,229	2,263	2,141
Female	1,690	1,764	1,789	1,725	1,628	1,481	1,549	1,411
Male	833	882	912	882	826	748	714	730
Asian ^a	126	113	132	145	116	119	118	153
Female	95	84	98	99	91	80	81	127
Male	31	29	34	46	25	39	37	26
Black	152	158	172	189	174	171	169	204
Female	111	115	135	144	124	129	126	154
Male	41	43	37	45	50	42	43	50
Hispanic	171	208	215	211	175	185	170	170
Female	107	152	158	151	129	129	116	115
Male	64	56	57	59	46	56	54	55
Unknown	0	0	0	1	0	0	0	0
American Indian/Alaska Native	18	31	35	22	17	15	22	13
Female	12	18	23	19	12	8	14	9
Male	6	13	12	3	5	7	8	4
Other/unknown race/ethnicity ^b	135	119	37	57	97	76	115	108
Female	91	79	26	40	66	52	77	77
Male	39	35	11	17	31	24	38	30
Unknown	5	5	0	0	0	0	0	1

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Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Social sciences	2,877	2,840	2,867	2,909	2,733	2,725	2,712	2,750
Female	1,267	1,308	1,323	1,346	1,305	1,351	1,341	1,324
Male	1,609	1,531	1,544	1,563	1,428	1,374	1,371	1,426
Unknown	1	1	0	0	0	0	0	0
White	2,236	2,207	2,246	2,303	2,132	2,101	2,047	2,121
Female	986	1,024	1,037	1,058	1,000	1,016	954	1,008
Male	1,250	1,183	1,209	1,245	1,132	1,085	1,093	1,113
Asian ^a	238	221	200	176	177	167	167	166
Female	104	100	96	81	98	91	92	91
Male	134	121	104	95	79	76	75	75
Black	159	181	194	203	190	189	187	187
Female	71	92	85	104	97	98	125	98
Male	88	89	109	99	93	91	62	89
Hispanic	98	121	121	112	120	135	154	138
Female	38	44	64	45	59	73	95	68
Male	60	77	57	67	61	62	59	70
American Indian/Alaska Native	18	12	29	20	20	22	16	13
Female	14	8	13	10	8	18	10	9
Male	4	4	16	10	12	4	6	4
Other/unknown race/ethnicity ^b	128	98	77	95	94	111	141	125
Female	54	40	28	48	43	55	65	50
Male	73	57	49	47	51	56	76	75
Unknown	1	1	0	0	0	0	0	0
Engineering	3,332	3,044	2,889	2,571	2,446	2,164	2,170	2,182
Female	512	452	491	491	479	442	440	470
Male	2,819	2,586	2,398	2,080	1,967	1,722	1,730	1,712
Unknown	1	6	0	0	0	0	0	0
White	2,288	2,170	2,110	1,889	1,752	1,477	1,560	1,542
Female	332	307	351	334	318	276	301	317
Male	1,956	1,863	1,759	1,555	1,434	1,201	1,259	1,225
Asian ^a	707	554	512	439	422	408	340	354
Female	119	97	84	109	98	98	80	83
Male	588	454	428	330	324	310	260	271
Unknown	0	3	0	0	0	0	0	0
Black	98	81	98	81	92	85	77	94
Female	23	22	24	24	25	28	19	33
Male	75	59	74	57	67	57	58	61
Hispanic	96	110	83	82	91	97	103	88
Female	23	13	23	13	23	25	23	21
Male	73	97	60	69	68	72	80	67
American Indian/Alaska Native	17	13	12	8	6	7	12	6
Female	3	4	2	4	2	0	3	2
Male	14	9	10	4	4	7	9	4
Other/unknown race/ethnicity ^b	126	116	74	72	83	90	78	98
Female	12	9	7	7	13	15	14	14
Male	113	104	67	65	70	75	64	84
Unknown	1	3	0	0	0	0	0	0

^a Includes Native Hawaiians/other Pacific Islanders through 2000 but excludes them in 2001-2004 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/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, 1997-2004.