

TABLE 8. Doctorates awarded to U.S. citizens, by race/ethnicity and major field of study of recipients: 1994–2003

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand total, all fields	27,149	27,742	27,775	28,151	28,456	27,984	27,978	27,031	25,997	26,413
Science and engineering ¹	15,166	15,487	15,638	16,112	16,237	15,912	15,705	15,060	14,342	14,571
Engineering	2,215	2,386	2,596	2,739	2,565	2,485	2,221	2,140	1,892	1,898
Chemical	293	291	318	321	328	333	339	329	302	272
Civil	203	206	212	249	246	261	221	222	210	239
Electrical	634	683	708	753	638	639	532	465	424	403
Mechanical	359	383	436	456	433	398	341	385	285	287
Other engineering	726	823	922	960	920	854	788	739	671	697
Sciences ¹	12,951	13,101	13,042	13,373	13,672	13,427	13,484	12,920	12,450	12,673
Agricultural sciences	519	492	472	467	464	443	447	403	390	443
Biological sciences	3,422	3,494	3,546	3,670	3,756	3,660	3,904	3,899	3,796	3,782
Computer sciences	426	484	422	430	476	420	388	367	355	384
Earth, atmospheric, and ocean sciences	507	478	462	537	500	475	475	430	458	474
Mathematics	504	554	490	530	576	539	518	469	411	470
Physical sciences	2,198	2,137	2,078	2,131	2,141	2,035	1,890	1,861	1,778	1,815
Astronomy	103	120	137	151	132	111	127	119	104	125
Chemistry	1,291	1,238	1,170	1,234	1,288	1,256	1,119	1,127	1,136	1,169
Physics	789	764	762	731	705	657	625	602	527	500
Other physical sciences	15	15	9	15	16	11	19	13	11	21
Psychology	3,052	3,083	3,129	3,036	3,181	3,222	3,156	2,958	2,723	2,776
Social sciences ¹	2,323	2,379	2,443	2,572	2,578	2,633	2,706	2,533	2,539	2,529
Non-S&E ¹	11,983	12,255	12,137	12,039	12,219	12,072	12,273	11,971	11,655	11,842
Education	5,867	5,777	5,879	5,582	5,573	5,636	5,554	5,334	5,283	5,501
Health	961	938	933	959	1,072	972	1,120	1,088	1,123	1,166
Humanities ¹	3,485	3,748	3,728	3,946	4,023	4,008	4,159	4,113	3,910	3,892
Professional/other/unknown	1,670	1,792	1,597	1,552	1,551	1,456	1,440	1,436	1,339	1,283
American Indian/Alaskan Native										
Grand total, all fields	143	148	185	167	189	214	169	149	147	133
Science and engineering ¹	64	68	94	79	96	114	88	72	67	71
Engineering	6	9	14	17	13	12	8	7	7	10
Chemical	1	2	1	4	3	2	1	1	2	1
Civil	0	0	2	2	0	2	1	0	0	1
Electrical	1	1	2	5	3	1	0	1	0	5
Mechanical	0	2	3	6	2	2	3	1	1	0
Other engineering	4	4	6	0	5	5	3	4	4	3
Sciences ¹	58	59	80	62	83	102	80	65	60	61
Agricultural sciences	1	2	6	5	9	1	4	0	2	4
Biological sciences	16	15	20	7	12	20	17	15	12	11
Computer sciences	1	0	4	1	4	1	1	0	1	2
Earth, atmospheric, and ocean sciences	1	0	2	2	3	6	5	0	0	2
Mathematics	2	2	1	1	3	1	2	1	3	2
Physical sciences	6	8	6	10	9	9	9	12	7	2
Astronomy	0	0	0	1	1	1	1	1	0	0
Chemistry	4	6	4	6	7	5	7	11	5	2

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Physics	2	2	2	2	1	3	1	0	2	0
Other physical sciences	0	0	0	1	0	0	0	0	0	0
Psychology	12	14	17	18	31	35	22	17	15	22
Social sciences ¹	19	18	24	18	12	29	20	20	20	16
Non-S&E ¹	79	80	91	88	93	100	81	77	80	62
Education	37	41	60	51	50	58	51	42	46	39
Health	6	9	4	6	4	6	4	6	3	2
Humanities ¹	20	18	18	19	21	21	20	21	20	15
Professional/other/unknown	16	12	9	12	18	15	6	8	11	6
Asian/Pacific Islander										
Grand total, all fields	937	1,129	1,066	1,296	1,155	1,304	1,363	1,440	1,439	1,417
Science and engineering ¹	728	884	821	1,000	869	988	991	1,066	1,078	1,030
Engineering	200	254	271	290	243	263	240	262	250	206
Chemical	27	27	27	17	36	32	43	37	49	37
Civil	7	15	17	13	16	20	18	15	14	10
Electrical	96	92	109	128	86	92	79	79	81	76
Mechanical	28	37	40	50	35	42	39	49	32	26
Other engineering	42	83	78	82	70	77	61	82	74	57
Sciences ¹	528	630	550	710	626	725	751	804	828	824
Agricultural sciences	14	10	12	16	6	21	13	7	9	7
Biological sciences	193	225	233	255	249	288	318	369	392	389
Computer sciences	32	42	37	42	39	43	41	34	50	45
Earth, atmospheric, and ocean sciences	7	8	8	16	7	15	9	15	11	10
Mathematics	18	24	23	33	25	29	44	30	20	38
Physical sciences	120	146	105	151	117	123	102	125	126	112
Astronomy	4	4	5	6	6	2	8	6	10	8
Chemistry	69	90	55	82	71	88	49	73	78	65
Physics	46	52	45	63	40	33	44	46	38	38
Other physical sciences	1	0	0	0	0	0	1	0	0	1
Psychology	80	83	75	101	92	110	121	108	113	110
Social sciences ¹	64	92	57	96	91	96	103	116	107	113
Non-S&E ¹	209	245	245	296	286	316	372	374	361	387
Education	80	84	87	100	99	100	124	110	113	120
Health	35	22	37	42	32	45	55	73	59	74
Humanities ¹	57	84	78	104	101	112	124	123	141	132
Professional/other/unknown	37	55	43	50	54	59	69	68	48	61
Black										
Grand total, all fields	1,099	1,293	1,305	1,335	1,485	1,629	1,629	1,614	1,662	1,708
Science and engineering ¹	389	461	487	530	574	637	646	631	634	612
Engineering	43	53	59	83	73	85	74	82	76	69
Chemical	6	2	10	12	3	9	8	16	10	8
Civil	8	7	6	9	7	5	5	7	10	6
Electrical	14	20	17	27	22	26	19	20	15	19

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Mechanical	4	7	9	10	12	10	17	17	16	9
Other engineering	11	17	17	25	29	35	25	22	25	27
Sciences ¹	346	408	428	447	501	552	572	549	558	543
Agricultural sciences	10	9	14	14	8	16	8	9	8	12
Biological sciences	66	90	82	101	101	109	110	124	114	100
Computer sciences	7	9	12	4	12	16	13	13	17	17
Earth, atmospheric, and ocean sciences	3	2	3	4	7	11	7	5	5	15
Mathematics	9	4	8	6	12	10	14	17	13	14
Physical sciences	33	36	45	45	51	54	52	46	62	50
Astronomy	0	1	0	2	1	2	1	1	1	1
Chemistry	23	27	34	31	40	46	36	36	41	35
Physics	9	8	11	12	10	6	15	9	20	12
Other physical sciences	1	0	0	0	0	0	0	0	0	2
Psychology	112	143	144	142	152	168	184	169	163	162
Social sciences ¹	106	115	120	131	158	168	184	166	176	173
Non-S&E ¹	710	832	818	805	911	992	983	983	1,028	1,096
Education	486	579	580	527	628	661	674	649	676	743
Health	41	55	42	51	60	51	67	60	67	75
Humanities ¹	94	97	105	125	131	150	145	158	153	142
Professional/other/unknown	89	101	91	102	92	130	97	116	132	136
Hispanic, total ²										
Grand total, all fields	884	922	957	1,063	1,205	1,184	1,180	1,127	1,237	1,270
Science and engineering ¹	463	488	534	574	683	646	650	584	653	654
Engineering	49	61	87	82	100	71	69	73	87	90
Chemical	5	12	15	6	10	5	13	5	16	14
Civil	7	7	2	10	15	11	8	8	7	11
Electrical	16	14	27	23	27	28	19	15	28	21
Mechanical	7	5	11	13	19	8	10	17	10	12
Other engineering	14	23	32	30	29	19	19	28	26	32
Sciences ¹	414	427	447	492	583	575	581	511	566	564
Agricultural sciences	16	10	9	14	25	10	17	15	17	16
Biological sciences	111	104	109	131	150	155	154	149	161	157
Computer sciences	5	6	12	15	13	12	11	6	13	8
Earth, atmospheric, and ocean sciences	7	7	13	16	15	19	18	11	14	13
Mathematics	12	12	9	17	25	12	13	14	11	14
Physical sciences	75	61	51	58	49	56	72	61	56	61
Astronomy	2	3	1	3	2	1	1	7	3	3
Chemistry	49	38	32	36	34	41	49	39	35	38
Physics	24	20	18	19	13	14	21	15	18	20
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	128	138	167	161	197	205	203	160	180	161
Social sciences ¹	60	89	77	80	109	106	93	95	114	134
Non-S&E ¹	421	434	423	489	522	538	530	543	584	616
Education	226	235	205	247	285	289	274	267	306	327

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Health	20	29	31	29	37	39	33	24	29	38
Humanities ¹	129	123	138	173	156	160	176	194	205	202
Professional/other/unknown	46	47	49	40	44	50	47	58	44	49
Puerto Rican										
Grand total, all fields	257	269	252	313	308	335	326	303	345	259
Science and engineering ¹	131	137	142	171	173	184	183	155	196	148
Engineering	10	13	22	23	17	23	20	13	26	19
Chemical	2	4	4	1	3	2	5	2	8	4
Civil	1	1	1	5	1	2	2	2	1	4
Electrical	3	3	4	4	3	11	6	2	7	4
Mechanical	1	1	3	6	5	2	2	1	3	2
Other engineering	3	4	10	7	5	6	5	6	7	5
Sciences ¹	121	124	120	148	156	161	163	142	170	129
Agricultural sciences	5	3	4	4	3	1	6	4	8	3
Biological sciences	28	30	32	36	43	47	33	48	56	35
Computer sciences	4	0	5	6	2	6	4	1	4	2
Earth, atmospheric, and ocean sciences	0	2	3	6	5	5	5	3	4	4
Mathematics	1	1	3	4	7	2	2	2	3	3
Physical sciences	26	21	12	20	11	22	20	14	20	17
Astronomy	0	1	0	0	1	0	0	0	1	1
Chemistry	19	17	9	13	9	18	19	11	11	14
Physics	7	3	3	7	1	4	1	3	8	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	43	44	48	56	71	57	74	45	50	47
Social sciences ¹	14	23	13	16	14	21	19	25	25	18
Non-S&E ¹										
Education	68	69	52	72	77	90	75	88	79	52
Health	6	12	7	10	7	11	9	5	9	4
Humanities ¹	38	30	38	49	37	31	44	41	51	40
Professional/other/unknown	14	21	13	11	14	19	15	14	10	15
Mexican American										
Grand total, all fields	290	276	282	297	409	339	400	379	400	437
Science and engineering ¹	134	139	142	154	213	155	206	169	185	200
Engineering	14	14	26	18	28	11	26	17	16	14
Chemical	1	3	4	3	1	0	4	0	3	2
Civil	1	3	0	2	5	3	4	1	1	0
Electrical	4	3	9	5	6	3	4	8	4	3
Mechanical	2	1	4	2	3	1	6	4	3	2
Other engineering	6	4	9	6	13	4	8	4	5	7
Sciences ¹	120	125	116	136	185	144	180	152	169	186
Agricultural sciences	5	3	2	2	9	3	5	3	5	7
Biological sciences	29	25	28	40	49	39	44	47	52	50
Computer sciences	0	3	1	2	3	0	3	2	3	3
Earth, atmospheric, and ocean sciences	4	3	5	3	5	5	5	3	6	0

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mathematics	4	5	2	3	6	7	8	6	2	4
Physical sciences	20	13	20	14	21	15	22	15	16	24
Astronomy	1	1	1	0	1	0	0	3	1	0
Chemistry	16	8	14	9	15	9	17	6	7	19
Physics	3	4	5	5	5	6	5	6	8	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	38	47	38	49	51	40	60	48	51	48
Social sciences ¹	20	26	20	23	41	35	33	28	34	50
Non-S&E ¹	156	137	140	143	196	184	194	210	215	237
Education	100	91	78	89	116	103	113	116	137	149
Health	3	8	6	7	15	14	11	7	7	13
Humanities ¹	39	33	39	37	54	49	57	65	60	58
Professional/other/unknown	14	5	17	10	11	18	13	22	11	17
Other Hispanic										
Grand total, all fields	337	377	423	453	488	510	454	445	492	574
Science and engineering ¹	198	212	250	249	297	307	261	260	272	306
Engineering	25	34	39	41	55	37	23	43	45	57
Chemical	2	5	7	2	6	3	4	3	5	8
Civil	5	3	1	3	9	6	2	5	5	7
Electrical	9	8	14	14	18	14	9	5	17	14
Mechanical	4	3	4	5	11	5	2	12	4	8
Other engineering	5	15	13	17	11	9	6	18	14	20
Sciences ¹	173	178	211	208	242	270	238	217	227	249
Agricultural sciences	6	4	3	8	13	6	6	8	4	6
Biological sciences	54	49	49	55	58	69	77	54	53	72
Computer sciences	1	3	6	7	8	6	4	3	6	3
Earth, atmospheric, and ocean sciences	3	2	5	7	5	9	8	5	4	9
Mathematics	7	6	4	10	12	3	3	6	6	7
Physical sciences	29	27	19	24	17	19	30	32	20	20
Astronomy	1	1	0	3	0	1	1	4	1	2
Chemistry	14	13	9	14	10	14	13	22	17	5
Physics	14	13	10	7	7	4	15	6	2	13
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Psychology	47	47	81	56	75	108	69	67	79	66
Social sciences ¹	26	40	44	41	54	50	41	42	55	66
Non-S&E ¹	139	165	173	204	191	203	193	185	220	268
Education	58	75	75	86	92	96	86	63	90	126
Health	11	9	18	12	15	14	13	12	13	21
Humanities ¹	52	60	61	87	65	80	75	88	94	104
Professional/other/unknown	18	21	19	19	19	13	19	22	23	17
White										
Grand total, all fields	23,795	23,891	23,847	23,181	23,454	23,092	22,968	21,930	20,755	20,818
Science and engineering ¹	13,350	13,360	13,449	13,293	13,447	13,193	12,921	12,251	11,487	11,575

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Field of study	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Engineering	1,887	1,958	2,126	2,151	2,037	1,989	1,764	1,644	1,394	1,453
Chemical	246	242	261	269	262	279	268	259	214	203
Civil	181	175	184	206	197	219	181	176	170	203
Electrical	503	540	542	529	485	472	397	337	280	263
Mechanical	316	320	369	361	348	322	262	291	212	228
Other engineering	641	681	770	786	745	697	656	581	518	556
Sciences ¹	11,463	11,402	11,323	11,142	11,410	11,204	11,157	10,607	10,093	10,122
Agricultural sciences	471	456	422	397	402	385	396	361	347	388
Biological sciences	3,003	3,020	3,050	3,069	3,139	3,017	3,196	3,139	3,026	2,970
Computer sciences	375	416	342	341	383	336	310	300	266	291
Earth, atmospheric, and ocean sciences	486	452	430	476	451	412	417	385	412	415
Mathematics	455	507	440	449	491	474	437	396	352	379
Physical sciences	1,943	1,847	1,823	1,794	1,835	1,750	1,611	1,557	1,477	1,495
Astronomy	94	109	127	129	113	104	111	99	86	99
Chemistry	1,139	1,065	1,027	1,040	1,095	1,054	952	936	952	972
Physics	697	660	660	611	612	582	531	509	428	407
Other physical sciences	13	13	9	14	15	10	17	13	11	17
Psychology	2,693	2,674	2,701	2,481	2,593	2,667	2,570	2,416	2,188	2,215
Social sciences ¹	2,037	2,030	2,115	2,135	2,116	2,163	2,220	2,053	2,025	1,969
Non-S&E ¹	10,445	10,531	10,398	9,888	10,007	9,899	10,047	9,679	9,268	9,243
Education	4,986	4,796	4,879	4,414	4,349	4,438	4,328	4,160	3,998	4,091
Health	846	806	805	813	906	816	941	899	944	935
Humanities ¹	3,142	3,367	3,329	3,366	3,460	3,467	3,581	3,472	3,259	3,228
Professional/other/unknown	1,471	1,562	1,385	1,295	1,292	1,178	1,197	1,148	1,067	989

¹ Categories are grouped differently from the questionnaire and the summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

² Hispanic, total includes Puerto Rican, Mexican American, and other Hispanic.

NOTE: Persons with unknown race/ethnicity are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.