

TABLE 8. Doctorates awarded to female U.S. citizens and permanent residents, by race/ethnicity and major field of study of recipients: 2000–10

Race/ethnicity and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
All fields	14,647	14,217	13,963	14,254	14,275	14,363	14,773	15,266	16,065	16,814	16,313
Science and engineering	7,139	6,898	6,721	6,847	6,868	7,148	7,538	7,845	8,461	9,111	9,157
Science	6,647	6,419	6,277	6,407	6,395	6,669	6,957	7,240	7,707	8,292	8,296
Agricultural sciences	195	197	181	202	227	224	228	260	257	312	289
Biological sciences	1,988	1,976	1,924	1,921	2,012	2,170	2,243	2,416	2,627	2,956	3,003
Computer sciences	88	98	98	99	102	102	132	130	176	154	178
Earth, atmospheric, and ocean sciences	145	139	163	154	175	165	178	236	217	229	249
Mathematics	164	155	134	152	154	152	171	179	220	231	250
Physical sciences	540	526	531	563	501	561	580	607	619	751	744
Astronomy	35	30	21	30	33	34	38	33	48	58	64
Chemistry	422	409	419	419	382	445	443	444	438	543	512
Physics	83	87	91	114	86	82	99	130	133	150	168
Psychology	2,178	2,017	1,889	1,973	1,899	1,995	2,037	1,984	2,058	2,090	1,996
Social sciences	1,349	1,311	1,357	1,343	1,325	1,300	1,388	1,428	1,533	1,569	1,587
Engineering	492	479	444	440	473	479	581	605	754	819	861
Aerospace, aeronautical, and astronautical engineering	14	18	11	11	10	11	12	17	13	22	22
Chemical engineering	92	81	77	70	73	76	101	78	124	116	137
Civil engineering	44	47	49	46	43	51	48	47	58	69	78
Electrical, electronics, and communications engineering	74	54	61	52	60	70	58	79	93	95	107
Industrial and manufacturing engineering	18	28	32	22	20	17	29	29	35	26	23
Materials science engineering	48	54	44	44	35	48	57	69	68	84	91
Mechanical engineering	52	36	43	37	40	41	62	45	67	74	63
Other engineering	150	161	127	158	192	165	214	241	296	333	340
Non-science and engineering	7,508	7,319	7,242	7,407	7,407	7,215	7,235	7,421	7,604	7,703	7,156
Education	3,759	3,565	3,608	3,787	3,650	3,564	3,389	3,628	3,784	3,739	3,087
Health	856	802	860	873	920	929	999	1,105	1,110	1,162	1,180
Humanities	2,175	2,234	2,047	2,056	2,064	1,927	2,021	1,785	1,827	1,895	1,974
Professional/other/unknown	718	718	727	691	773	795	826	903	883	907	915
American Indian/Alaska Native, all fields	92	83	81	84	73	82	62	79	71	84	62
Science and engineering	44	32	33	39	27	32	20	38	32	40	31
Science	40	30	33	36	25	31	20	37	30	35	30
Agricultural sciences	1	0	0	1	2	2	2	3	1	1	0
Biological sciences	7	7	6	8	4	6	2	10	15	10	8
Computer sciences	0	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	0	1	0	3	0	0	1	1	0
Mathematics	1	1	1	1	0	0	0	1	0	0	0
Physical sciences	2	2	0	1	1	0	1	0	0	0	1
Astronomy	1	0	0	0	0	0	0	0	0	0	0
Chemistry	1	2	0	1	0	0	1	0	0	0	1
Physics	0	0	0	0	1	0	0	0	0	0	0
Psychology	18	12	8	14	9	9	10	16	7	9	11
Social sciences	10	8	18	10	9	11	5	7	6	14	10
Engineering	4	2	0	3	2	1	0	1	2	5	1
Aerospace, aeronautical, and astronautical engineering	0	0	0	0	0	0	0	0	1	0	0
Chemical engineering	1	0	0	1	1	0	0	0	0	1	0
Civil engineering	1	0	0	0	1	0	0	0	0	0	0
Electrical, electronics, and communications engineering	0	0	0	0	0	0	0	0	0	0	0
Industrial and manufacturing engineering	0	0	0	0	0	0	0	0	0	1	0
Materials science engineering	0	0	0	0	0	0	0	0	0	1	0
Mechanical engineering	1	0	0	1	0	1	0	0	0	1	1
Other engineering	1	2	0	1	0	0	0	1	1	1	0
Non-science and engineering	48	51	48	45	46	50	42	41	39	44	31
Education	34	31	30	31	33	34	21	25	26	32	17

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Race/ethnicity and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Health	3	4	3	1	3	2	3	4	5	4	4
Humanities	9	12	8	8	5	11	13	8	4	5	6
Professional/other/unknown	2	4	7	5	5	3	5	4	4	3	4
Asian, all fields ^a	1,034	1,003	992	968	1,057	1,111	1,262	1,268	1,408	1,494	1,569
Science and engineering	681	684	680	646	679	747	839	822	965	1,003	1,093
Science	571	586	581	565	595	647	707	707	797	838	896
Agricultural sciences	12	13	15	16	23	13	15	14	25	16	21
Biological sciences	263	267	291	254	260	285	281	322	341	377	403
Computer sciences	15	21	26	17	19	27	44	31	41	32	41
Earth, atmospheric, and ocean sciences	9	7	10	8	4	9	13	7	15	16	12
Mathematics	21	17	5	24	17	28	32	31	27	38	49
Physical sciences	71	73	61	72	54	66	79	81	89	99	98
Astronomy	4	0	0	3	4	2	4	4	3	2	3
Chemistry	54	61	50	50	42	50	60	63	65	74	72
Physics	13	12	11	19	8	14	15	14	21	23	23
Psychology	99	90	82	82	127	106	126	124	126	123	132
Social sciences	81	98	91	92	91	113	117	97	133	137	140
Engineering	110	98	99	81	84	100	132	115	168	165	197
Aerospace, aeronautical, and astronautical engineering	0	3	2	2	1	0	3	0	5	3	4
Chemical engineering	18	15	18	9	18	14	21	11	25	21	25
Civil engineering	10	5	6	2	5	6	9	4	8	12	16
Electrical, electronics, and communications engineering	20	24	23	21	16	20	21	32	40	32	37
Industrial and manufacturing engineering	2	6	2	3	3	2	4	3	3	6	3
Materials science engineering	10	9	10	6	8	10	15	9	17	13	19
Mechanical engineering	16	7	15	9	4	6	15	10	8	11	9
Other engineering	34	29	23	29	29	42	44	46	62	67	84
Non-science and engineering	353	319	312	322	378	364	423	446	443	491	476
Education	121	103	99	109	118	110	134	139	158	172	152
Health	63	64	71	49	64	85	90	107	95	96	117
Humanities	113	106	101	117	129	119	130	123	110	133	116
Professional/other/unknown	56	46	41	47	67	50	69	77	80	90	91
Black or African American, all fields	1,108	1,055	1,082	1,146	1,269	1,138	1,151	1,262	1,293	1,418	1,279
Science and engineering	392	375	373	379	423	396	439	429	475	561	534
Science	368	350	345	360	389	370	397	398	433	516	490
Agricultural sciences	11	6	5	8	11	12	8	9	16	18	23
Biological sciences	74	84	69	64	89	100	91	115	119	155	145
Computer sciences	5	10	7	5	5	8	4	11	11	7	10
Earth, atmospheric, and ocean sciences	1	2	0	7	1	1	2	1	3	4	4
Mathematics	7	7	8	5	3	8	8	4	14	12	9
Physical sciences	21	20	28	19	25	17	20	30	30	39	33
Astronomy	1	0	1	0	0	0	0	0	0	0	2
Chemistry	19	19	22	14	20	15	18	28	27	37	26
Physics	1	1	5	5	5	2	2	2	3	2	5
Psychology	144	124	128	126	157	126	143	113	131	139	139
Social sciences	105	97	100	126	98	98	121	115	109	142	127
Engineering	24	25	28	19	34	26	42	31	42	45	44
Aerospace, aeronautical, and astronautical engineering	1	0	0	0	0	0	0	0	1	0	0
Chemical engineering	5	9	5	3	6	7	7	5	7	2	5
Civil engineering	1	0	4	0	2	4	4	1	2	2	2
Electrical, electronics, and communications engineering	2	1	3	4	8	6	4	3	4	8	4
Industrial and manufacturing engineering	0	3	1	2	1	1	6	3	7	3	4
Materials science engineering	1	4	2	1	3	0	2	1	6	11	6
Mechanical engineering	5	1	4	1	3	0	4	2	2	2	3
Other engineering	9	7	9	8	11	8	15	16	13	17	20

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Race/ethnicity and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Non-science and engineering	716	680	709	767	846	742	712	833	818	857	745
Education	508	460	483	525	561	488	436	535	525	562	444
Health	61	52	58	61	81	91	101	98	83	113	119
Humanities	88	103	87	93	98	87	88	100	89	87	93
Professional/other/unknown	59	65	81	88	106	76	87	100	121	95	89
Hispanic or Latino, all fields	700	701	770	769	706	825	840	917	1,024	1,027	1,032
Science and engineering	350	336	379	368	364	411	455	478	579	560	599
Science	337	313	354	345	343	382	422	436	533	515	533
Agricultural sciences	11	14	8	11	11	10	15	16	10	17	20
Biological sciences	92	77	114	81	109	113	113	133	167	166	195
Computer sciences	3	4	2	5	3	3	4	2	6	5	8
Earth, atmospheric, and ocean sciences	3	5	2	6	5	8	11	13	10	10	10
Mathematics	7	5	4	7	7	6	10	6	5	12	7
Physical sciences	25	22	22	22	24	32	30	31	37	40	46
Astronomy	1	1	1	1	2	2	1	3	2	3	2
Chemistry	21	17	18	18	21	29	27	21	30	33	37
Physics	3	4	3	3	1	1	2	7	5	4	7
Psychology	151	125	129	117	116	130	161	149	203	171	140
Social sciences	45	61	73	96	68	80	78	86	95	94	107
Engineering	13	23	25	23	21	29	33	42	46	45	66
Aerospace, aeronautical, and astronautical engineering	0	0	0	0	0	1	0	1	0	1	3
Chemical engineering	3	5	7	4	4	6	11	7	8	12	12
Civil engineering	1	1	0	4	3	2	3	6	3	5	8
Electrical, electronics, and communications engineering	1	1	3	3	2	2	1	4	4	1	5
Industrial and manufacturing engineering	0	3	4	1	0	1	3	3	4	3	4
Materials science engineering	3	5	2	3	1	7	4	3	3	4	8
Mechanical engineering	1	0	5	1	2	6	1	2	7	5	5
Other engineering	4	8	4	7	9	4	10	16	17	14	21
Non-science and engineering	350	365	391	401	342	414	385	439	445	467	433
Education	186	184	217	222	177	209	201	240	241	253	184
Health	24	21	24	34	37	30	34	42	41	32	52
Humanities	110	132	125	115	103	125	111	119	115	132	152
Professional/other/unknown	30	28	25	30	25	50	39	38	48	50	45
White, all fields	11,408	10,984	10,619	10,739	10,661	10,760	10,969	11,234	11,744	12,177	11,710
Science and engineering	5,515	5,266	5,052	5,148	5,112	5,324	5,529	5,799	6,115	6,584	6,515
Science	5,181	4,948	4,775	4,846	4,794	5,028	5,174	5,410	5,641	6,065	6,003
Agricultural sciences	158	158	150	159	172	181	182	212	195	246	218
Biological sciences	1,510	1,491	1,393	1,450	1,472	1,608	1,688	1,763	1,899	2,135	2,128
Computer sciences	63	60	60	65	70	58	80	83	113	104	110
Earth, atmospheric, and ocean sciences	124	123	140	124	152	139	149	204	185	192	212
Mathematics	126	120	111	110	125	106	111	132	169	160	175
Physical sciences	414	394	410	424	381	429	435	444	446	555	536
Astronomy	26	28	18	24	26	28	32	25	43	50	55
Chemistry	323	298	321	317	286	339	326	319	304	387	359
Physics	65	68	71	83	69	62	77	100	99	118	122
Psychology	1,726	1,600	1,490	1,556	1,412	1,554	1,520	1,508	1,509	1,563	1,484
Social sciences	1,060	1,002	1,021	958	1,010	953	1,009	1,064	1,125	1,110	1,140
Engineering	334	318	277	302	318	296	355	389	474	519	512
Aerospace, aeronautical, and astronautical engineering	13	14	8	8	7	8	9	15	6	16	13
Chemical engineering	63	52	45	50	42	44	60	52	81	76	87
Civil engineering	31	40	36	40	31	37	30	33	43	47	52
Electrical, electronics, and communications engineering	49	28	30	21	33	37	31	36	44	47	54
Industrial and manufacturing engineering	16	16	23	15	16	12	15	19	21	12	10

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Race/ethnicity and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Materials science engineering	33	35	28	32	22	29	35	51	41	51	53
Mechanical engineering	29	26	19	24	29	27	40	29	47	52	42
Other engineering	100	107	88	112	138	102	135	154	191	218	201
Non-science and engineering	5,893	5,718	5,567	5,591	5,549	5,436	5,440	5,435	5,629	5,593	5,195
Education	2,839	2,710	2,680	2,772	2,655	2,645	2,504	2,601	2,744	2,608	2,176
Health	691	643	686	697	704	698	749	814	859	890	849
Humanities	1,805	1,809	1,654	1,625	1,643	1,501	1,599	1,364	1,428	1,466	1,516
Professional/other/unknown	558	556	547	497	547	592	588	656	598	629	654
Two or more races, all fields	na	168	162	201	218	231	261	298	287	352	400
Science and engineering	na	92	68	105	113	128	145	175	168	218	250
Science	na	86	66	101	107	111	133	159	156	194	226
Agricultural sciences	na	1	2	2	3	4	2	5	2	7	4
Biological sciences	na	22	15	27	32	28	40	41	54	63	72
Computer sciences	na	2	0	2	2	3	0	3	2	4	5
Earth, atmospheric, and ocean sciences	na	2	5	4	6	2	1	8	1	3	6
Mathematics	na	0	2	4	1	1	6	1	2	7	7
Physical sciences	na	9	3	9	5	13	8	15	11	13	20
Astronomy	na	1	0	1	0	2	1	1	0	3	2
Chemistry	na	7	3	6	3	9	7	8	6	8	12
Physics	na	1	0	2	2	2	0	6	5	2	6
Psychology	na	32	20	32	35	36	46	47	54	55	64
Social sciences	na	18	19	21	23	24	30	39	30	42	48
Engineering	na	6	2	4	6	17	12	16	12	24	24
Aerospace, aeronautical, and astronautical engineering	na	1	1	0	1	0	0	1	0	0	2
Chemical engineering	na	0	0	2	0	4	2	2	2	2	5
Civil engineering	na	0	0	0	1	1	1	2	2	1	0
Electrical, electronics, and communications engineering	na	0	0	1	1	2	0	3	0	3	1
Industrial and manufacturing engineering	na	0	0	0	0	1	1	0	0	0	2
Materials science engineering	na	0	1	1	0	1	0	4	1	4	3
Mechanical engineering	na	2	0	0	1	1	1	1	2	3	2
Other engineering	na	3	0	0	2	7	7	3	5	11	9
Non-science and engineering	na	76	94	96	105	103	116	123	119	134	150
Education	na	32	40	42	48	39	45	53	45	57	58
Health	na	6	6	11	11	10	9	18	17	15	24
Humanities	na	30	38	34	35	43	46	38	43	42	50
Professional/other/unknown	na	8	10	9	11	11	16	14	14	20	18
Other/unknown, all fields ^a	305	223	257	347	291	216	228	208	238	262	261
Science and engineering	157	113	136	162	150	110	111	104	127	145	135
Science	150	106	123	154	142	100	104	93	117	129	118
Agricultural sciences	2	5	1	5	5	2	4	1	8	7	3
Biological sciences	42	28	36	37	46	30	28	32	32	50	52
Computer sciences	2	1	3	5	3	3	0	0	3	2	4
Earth, atmospheric, and ocean sciences	7	0	6	4	7	3	2	3	2	3	5
Mathematics	2	5	3	1	1	3	4	4	3	2	3
Physical sciences	7	6	7	16	11	4	7	6	6	5	10
Astronomy	2	0	1	1	1	0	0	0	0	0	0
Chemistry	4	5	5	13	10	3	4	5	6	4	5
Physics	1	1	1	2	0	1	3	1	0	1	5
Psychology	40	34	32	46	43	34	31	27	28	30	26
Social sciences	48	27	35	40	26	21	28	20	35	30	15
Engineering	7	7	13	8	8	10	7	11	10	16	17
Aerospace, aeronautical, and astronautical engineering	0	0	0	1	1	2	0	0	0	2	0
Chemical engineering	2	0	2	1	2	1	0	1	1	2	3

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Race/ethnicity and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Civil engineering	0	1	3	0	0	1	1	1	0	2	0
Electrical, electronics, and communications engineering	2	0	2	2	0	3	1	1	1	4	6
Industrial and manufacturing engineering	0	0	2	1	0	0	0	1	0	1	0
Materials science engineering	1	1	1	1	1	1	1	1	0	0	2
Mechanical engineering	0	0	0	1	1	0	1	1	1	0	1
Other engineering	2	5	3	1	3	2	3	5	7	5	5
Non-science and engineering	148	110	121	185	141	106	117	104	111	117	126
Education	71	45	59	86	58	39	48	35	45	55	56
Health	14	12	12	20	20	13	13	22	10	12	15
Humanities	50	42	34	64	51	41	34	33	38	30	41
Professional/other/unknown	13	11	16	15	12	13	22	14	18	20	14

na = not applicable; respondents were instructed to indicate only one race.

^a Native Hawaiians or Other Pacific Islanders are included in counts only through 2000; after 2000, these groups were categorized as other/unknown.

^b Before 2001 this category included only non-Hispanic doctorate recipients who did not indicate their race, respondents selecting two or more races, and doctorate recipients with unknown race/ethnicity; since 2001 this category has included non-Hispanic doctorate recipients who did not indicate their race, Native Hawaiians or Other Pacific Islanders, and doctorate recipients with unknown race/ethnicity.

NOTE: Categories are grouped according to National Science Foundation taxonomy, which is different from the classification listed in questionnaire and summary reports. That is, the following categories are included in social sciences and not in humanities: American/U.S. studies; history, science and technology, and society; and archaeology. In addition, public administration is included in social sciences and not in professional fields, agricultural economics is included in social sciences and not in biological sciences, and agricultural business and management is included in business management/administration and not in agricultural sciences.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2010.