

Table 1-11. U.S. citizen and permanent resident research doctorate recipients, by trend broad field of doctorate, ethnicity, and race: Selected years, 1979–2024

(Number)

Field, ethnicity, and race	1979	1984	1989	1994	1999	2004	2009	2014	2019	2024
All fields	26,814	25,296	25,057	30,904	30,313	28,040	32,327	34,003	35,218	36,062
Hispanic or Latino	547	606	696	1,031	1,328	1,302	1,880	2,190	2,844	3,682
Not Hispanic or Latino										
American Indian or Alaska Native	81	74	94	142	214	125	132	103	119	129
Asian ^a	1,082	1,021	1,262	3,534	2,497	2,022	2,612	2,881	3,418	3,980
Black or African American	1,102	1,057	963	1,277	1,766	1,897	2,168	2,172	2,511	2,936
White	22,320	21,889	21,576	24,574	23,901	21,011	23,616	24,829	24,209	22,793
More than one race	na	na	na	na	na	386	646	879	1,121	1,377
Other race or race not reported ^b	128	113	129	114	352	402	338	272	381	516
Ethnicity not reported	1,554	536	337	232	255	895	935	677	615	649
Science and engineering	15,054	14,801	15,284	19,107	18,515	16,921	21,146	23,943	25,673	27,204
Hispanic or Latino	235	306	391	571	767	757	1,145	1,508	2,078	2,823
Not Hispanic or Latino										
American Indian or Alaska Native	28	32	55	70	119	57	75	70	77	81
Asian ^a	895	813	1,003	3,069	2,012	1,564	2,046	2,349	2,818	3,428
Black or African American	354	395	388	535	763	812	1,056	1,285	1,465	1,754
White	12,544	12,843	13,113	14,636	14,473	12,722	15,517	17,449	17,658	17,170
More than one race	na	na	na	na	na	240	446	640	870	1,083
Other race or race not reported ^b	73	69	89	75	214	275	217	192	280	386
Ethnicity not reported	925	343	245	151	167	494	644	450	427	479
Agricultural sciences and natural resources	723	813	832	764	657	635	747	770	849	800
Hispanic or Latino	8	11	21	29	20	20	34	49	56	62
Not Hispanic or Latino										
American Indian or Alaska Native	0	1	3	2	1	3	4	5	5	4
Asian ^a	34	28	30	92	57	36	33	47	48	59
Black or African American	10	22	21	28	35	23	35	37	41	33
White	621	733	728	602	531	508	598	602	656	600
More than one race	na	na	na	na	na	6	13	9	19	13
Other race or race not reported ^b	3	5	8	1	8	9	8	7	10	9
Ethnicity not reported	47	13	21	10	5	30	22	14	14	20
Biological and biomedical sciences	3,264	3,496	3,387	4,238	4,268	4,389	5,775	5,993	6,368	6,996
Hispanic or Latino	39	46	71	137	184	197	310	383	596	850
Not Hispanic or Latino										
American Indian or Alaska Native	3	10	8	17	20	13	19	7	14	15
Asian ^a	163	161	204	732	623	508	644	695	807	987
Black or African American	34	56	61	82	123	160	262	280	275	331
White	2,821	3,122	2,977	3,230	3,238	3,286	4,238	4,319	4,318	4,339

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(Number)

Field, ethnicity, and race	1979	1984	1989	1994	1999	2004	2009	2014	2019	2024
More than one race	na	na	na	na	na	60	119	181	228	294
Other race or race not reported ^b	14	15	18	14	54	71	60	46	64	94
Ethnicity not reported	190	86	48	26	26	94	123	82	66	86
Computer and information sciences	175	195	397	544	493	448	734	807	799	1,103
Hispanic or Latino	2	3	4	7	14	13	20	29	38	76
Not Hispanic or Latino										
American Indian or Alaska Native	1	0	2	1	1	2	0	2	1	2
Asian ^a	9	20	52	116	87	72	123	135	134	243
Black or African American	1	3	1	10	19	15	27	38	38	66
White	152	163	319	401	356	319	523	566	537	609
More than one race	na	na	na	na	na	8	17	17	27	50
Other race or race not reported ^b	1	0	1	5	9	4	11	7	12	33
Ethnicity not reported	9	6	18	4	7	15	13	13	12	24
Engineering	1,615	1,515	2,232	3,054	2,892	2,190	3,166	4,066	4,251	4,910
Hispanic or Latino	24	34	47	67	83	88	160	244	306	413
Not Hispanic or Latino										
American Indian or Alaska Native	3	3	7	6	12	6	10	7	9	8
Asian ^a	301	251	360	865	513	349	487	580	718	830
Black or African American	19	15	33	53	98	89	132	168	178	234
White	1,154	1,158	1,728	2,020	2,111	1,525	2,111	2,826	2,799	3,063
More than one race	na	na	na	na	na	23	56	103	123	190
Other race or race not reported ^b	8	10	19	13	35	46	29	41	50	77
Ethnicity not reported	106	44	38	30	40	64	181	97	68	95
Geosciences, atmospheric, and ocean sciences	517	462	505	586	471	439	559	722	808	834
Hispanic or Latino	5	2	9	8	20	12	25	38	52	77
Not Hispanic or Latino										
American Indian or Alaska Native	2	0	6	1	6	4	1	1	4	1
Asian ^a	18	17	21	90	35	11	19	23	31	56
Black or African American	3	3	2	6	11	6	8	17	15	24
White	456	426	457	476	387	373	466	604	655	621
More than one race	na	na	na	na	na	7	8	23	31	38
Other race or race not reported ^b	3	1	3	2	6	12	5	6	9	3
Ethnicity not reported	30	13	7	3	6	14	27	10	11	14
Health sciences	470	500	645	869	886	1,058	1,281	1,627	1,818	1,811
Hispanic or Latino	3	9	11	17	34	38	46	97	119	148
Not Hispanic or Latino										
American Indian or Alaska Native	0	1	1	5	6	3	6	8	10	10

Table 1-11. U.S. citizen and permanent resident research doctorate recipients, by trend broad field of doctorate, ethnicity, and race: Selected years, 1979–2024

(Number)

Field, ethnicity, and race	1979	1984	1989	1994	1999	2004	2009	2014	2019	2024
Asian ^a	27	34	16	79	71	67	107	141	185	176
Black or African American	25	19	25	41	49	89	113	184	223	258
White	388	426	584	714	713	793	946	1,119	1,174	1,099
More than one race	na	na	na	na	na	14	26	44	49	55
Other race or race not reported ^b	4	0	2	4	7	8	8	10	16	36
Ethnicity not reported	23	11	6	9	6	46	29	24	42	29
Mathematics and statistics	603	444	428	657	605	511	772	931	986	975
Hispanic or Latino	10	11	11	13	16	26	36	37	65	66
Not Hispanic or Latino										
American Indian or Alaska Native	0	3	0	2	1	0	3	2	0	2
Asian ^a	46	30	24	142	56	54	81	87	117	145
Black or African American	11	4	8	11	12	10	24	37	32	36
White	505	380	369	479	505	394	584	723	696	654
More than one race	na	na	na	na	na	8	15	17	41	35
Other race or race not reported ^b	0	4	4	1	7	9	8	7	15	18
Ethnicity not reported	31	12	12	9	8	10	21	21	20	19
Physical sciences	2,207	2,194	2,124	2,774	2,265	1,861	2,355	2,578	3,092	3,121
Hispanic or Latino	33	47	59	90	64	62	106	166	217	329
Not Hispanic or Latino										
American Indian or Alaska Native	1	4	10	6	9	5	4	8	4	5
Asian ^a	166	144	155	595	252	162	198	229	335	382
Black or African American	37	34	31	45	66	59	74	83	73	100
White	1,774	1,889	1,817	2,012	1,828	1,449	1,823	1,942	2,285	2,103
More than one race	na	na	na	na	na	30	39	68	109	119
Other race or race not reported ^b	16	8	11	9	17	40	25	27	25	33
Ethnicity not reported	180	68	41	17	29	54	86	55	44	50
Psychology	2,903	2,989	2,741	3,137	3,297	2,796	2,908	3,042	3,326	3,450
Hispanic or Latino	50	84	93	133	216	172	231	241	324	448
Not Hispanic or Latino										
American Indian or Alaska Native	10	6	11	12	35	12	10	13	15	13
Asian ^a	33	43	55	108	132	148	147	161	196	251
Black or African American	115	122	97	124	173	198	175	179	281	369
White	2,543	2,685	2,454	2,729	2,702	2,103	2,183	2,273	2,267	2,095
More than one race	na	na	na	na	na	43	80	82	122	155
Other race or race not reported ^b	14	12	11	9	27	38	26	18	34	36
Ethnicity not reported	138	37	20	22	12	82	56	75	87	83
Social sciences	2,577	2,193	1,993	2,484	2,681	2,594	2,849	3,407	3,376	3,204

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(Number)

Field, ethnicity, and race	1979	1984	1989	1994	1999	2004	2009	2014	2019	2024
Hispanic or Latino	61	59	65	70	116	129	177	224	305	354
Not Hispanic or Latino										
American Indian or Alaska Native	8	4	7	18	28	9	18	17	15	21
Asian ^a	98	85	86	250	186	157	207	251	247	299
Black or African American	99	117	109	135	177	163	206	262	309	303
White	2,130	1,861	1,680	1,973	2,102	1,972	2,045	2,475	2,271	1,987
More than one race	na	na	na	na	na	41	73	96	121	134
Other race or race not reported ^b	10	14	12	17	44	38	37	23	45	47
Ethnicity not reported	171	53	34	21	28	85	86	59	63	59
Non-science and engineering	11,760	10,495	9,773	11,797	11,798	11,119	11,181	10,060	9,545	8,858
Hispanic or Latino	312	300	305	460	561	545	735	682	766	859
Not Hispanic or Latino										
American Indian or Alaska Native	53	42	39	72	95	68	57	33	42	48
Asian ^a	187	208	259	465	485	458	566	532	600	552
Black or African American	748	662	575	742	1,003	1,085	1,112	887	1,046	1,182
White	9,776	9,046	8,463	9,938	9,428	8,289	8,099	7,380	6,551	5,623
More than one race	na	na	na	na	na	146	200	239	251	294
Other race or race not reported ^b	55	44	40	39	138	127	121	80	101	130
Ethnicity not reported	629	193	92	81	88	401	291	227	188	170
Business	578	644	734	904	769	647	780	849	744	655
Hispanic or Latino	6	11	12	18	17	30	42	46	42	47
Not Hispanic or Latino										
American Indian or Alaska Native	1	2	1	7	5	5	3	1	1	2
Asian ^a	21	45	50	86	63	55	84	106	124	110
Black or African American	14	13	17	37	57	65	73	96	107	94
White	502	552	640	751	616	441	525	552	440	349
More than one race	na	na	na	na	na	13	16	19	11	15
Other race or race not reported ^b	1	1	5	1	7	7	5	11	10	21
Ethnicity not reported	33	20	9	4	4	31	32	18	9	17
Education	6,693	6,051	5,411	6,066	5,817	5,452	5,584	3,934	3,843	3,714
Hispanic or Latino	171	158	172	241	303	273	390	259	318	383
Not Hispanic or Latino										
American Indian or Alaska Native	40	33	25	37	58	46	42	19	25	26
Asian ^a	85	92	102	172	168	149	211	198	206	200
Black or African American	568	513	432	521	689	749	788	522	619	654
White	5,464	5,147	4,633	5,041	4,506	3,915	3,886	2,710	2,482	2,250
More than one race	na	na	na	na	na	61	90	92	109	107

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(Number)

Field, ethnicity, and race	1979	1984	1989	1994	1999	2004	2009	2014	2019	2024
Other race or race not reported ^b	33	25	17	16	62	51	53	23	33	37
Ethnicity not reported	332	83	30	38	31	208	124	111	51	57
Humanities and arts	3,773	3,098	2,939	4,007	4,445	4,190	3,850	4,301	3,988	3,344
Hispanic or Latino	127	108	106	172	203	212	256	310	337	334
Not Hispanic or Latino										
American Indian or Alaska Native	9	5	9	19	21	12	10	12	10	15
Asian ^a	61	54	85	160	211	215	203	180	204	159
Black or African American	114	90	75	115	177	170	157	153	180	197
White	3,222	2,756	2,600	3,492	3,727	3,329	2,992	3,424	3,004	2,388
More than one race	na	na	na	na	na	60	79	112	106	125
Other race or race not reported ^b	19	14	16	18	57	60	53	39	44	50
Ethnicity not reported	221	71	48	31	49	132	100	71	103	76
Other non-science and engineering	716	702	689	820	767	830	967	976	970	1,145
Hispanic or Latino	8	23	15	29	38	30	47	67	69	95
Not Hispanic or Latino										
American Indian or Alaska Native	3	2	4	9	11	5	2	1	6	5
Asian ^a	20	17	22	47	43	39	68	48	66	83
Black or African American	52	46	51	69	80	101	94	116	140	237
White	588	591	590	654	579	604	696	694	625	636
More than one race	na	na	na	na	na	12	15	16	25	47
Other race or race not reported ^b	2	4	2	4	12	9	10	7	14	22
Ethnicity not reported	43	19	5	8	4	30	35	27	25	20

na = not applicable; doctorate recipients were instructed to indicate only one race before 2001.

^a Asian includes Native Hawaiians or Other Pacific Islanders through 2000 but excludes them since 2001.^b Before 2001, other race included doctorate recipients who selected more than one race. Since 2001, other race has included Native Hawaiians or Other Pacific Islanders, who previously had been included in the category Asian.**Note(s):**

Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection; the trend fields were constructed using the SED-CIP code crosswalk in table A-6. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information about the field taxonomy changes, see the "Technical Notes."

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.