TABLE 3-5

Median years to science and engineering research doctorate, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2023

(Number and median years)

	All fi	elds	Science and eng	jineering, total	Agricultural sciences and natural resources		Biological and bior	nedical sciences	Computer and in	ormation sciences	Engi	neering	Geosciences, atmosphe	Geosciences, atmospheric, and ocean sciences		th sciences	Mathematic	s and statistics	Multidisciplinary/ inte	erdisciplinary sciences	Physica	al sciences	Psyc	chology	Social sc	ciences
Time to degree and demographic characteristic	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Numbe	r Mediar	Number	Median	Number	Median	Number	Media	Number	Median	n Number	Mediar
Years since bachelor's degree																										
Doctorate recipients reporting year of bachelor's degree	54,429	8.6	43,361	8.0	1,204	9.0	9,266	7.8	2,159		8.2 10,074	7.4	1,155		8.1 2,5	512 1	.4 1,97	0 7.0	1,616	5	3.3 5,179	9	5.7 3,47	4 8.0	3.6 4,752	. 10
Sex																										
Male	28,564	8.3	24,059	7.9	540	9.1	4,202	8.0	1,620		8.1 7,420	7.6	630		8.3	'14	1,41	1 6.8	993	3	3,414	4	7.0 80	0 8.9	3.9 2,309	10
Female	25,858	9.0	19,295	8.2	664	8.6	5,063	7.6	539		8.9 2,648	7.1	524		8.0 1,7	98 12	2.2 55	7.2	623	3	3.4 1,764	4	5.3 2,67	3 8.4	3.4 2,441	10
Citizenship status																										
U.S. citizen or permanent resident	34,922	8.8	26,551	8.0	770	8.9	6,908	7.6	806)	8.3 4,458	6.9	767		8.0 1,8	80 12	2.2 92	4 6.3	813	3	3,101	1	5.3 3,08	8.6	3,040	10
Temporary visa holder	18,754	8.3	16,264	8.1	425	8.9	2,259	8.3	1,310		8.1 5,509	7.9	375		8.5 5	i86 9	1,02	0 7.3	784	1	3.2 2,025	5	7.3 32	.0 8.	3.5 1,651	10
Ethnicity and race (U.S. citizens and permanent residents)																										
Hispanic or Latino	3,370	8.6	2,552	7.9	63	8.3	713	7.6	47	7	7.4 398	6.6	58		8.3 1	55 10	0.7	4 6.3	73	3	3.4 294	4	5.6 36	1 8.6	3.6 326	10
Not Hispanic or Latino																										
American Indian or Alaska Native	113	11.4	67	10.0	D	D	11	8.1			D (6.2	. D		D	9 13	3.2	0 -	D		D .	5	3.6 1	2 7	.6 15	10
Asian	3,765	8.3	3,196	8.0	46	10.1	890	8.0	189		8.3 72	1 7.3	57		9.3 1	89 1°	.6 13	5 6.3	109		3.0 342	2	5.7 22	.9 9	9.2 289	10
Black or African American	2,680	11.4	1,633	9.6	D	D	333	8.0)	D 209	7.5	D		D 2	235 13	3.0 2	2 9.5	D		D 97	7	7.0 29	10.0	0.0 292	. 11
White	22,814	8.6	17,402	7.8	574	8.4	4,511	7.6	469		8.3 2,846	6.8	594		7.9 1,1	70 12	2.6 64	4 6.3	521	1	3.1 2,166	6	5.3 1,96	6 8.3	3.3 1,941	10
More than one race	1,291	8.0	1,055	7.3	27	10.0	325	7.3	2		7.2 17	5 6.3	29		7.4	60 1	.7 4	0 6.1	24	1	5.8 111	1	5.2 14	.0 8.6	3.6 103	9
Other race or race not reported	435	9.2	326	8.3	9	12.3	72	8.0	17	7	9.3 54	7.8	5		7.5	24 13	3.4 1	1 6.3	7	7 1:	2.9 46	6	5.3 3	7 8.8	.8 44	. 10
Ethnicity not reported	454	9.6	320	8.3	15	7.3	53	7.7	18	3	9.0 49	8.0	5		8.8	38 10	0.7	8 7.6	16	5 14	1.8 40	0	5.6 4	8 8	3.3 30	10
Years since entering graduate school																										
Doctorate recipients reporting year of graduate school entry	52,827	7.2	42,184	6.8	1,149	7.3	9,108	6.4	2,07		7.0 9,77	5 6.6	1,131		6.8 2,4	51 9	0.0 1,90	6.0	1,577	7	7.0 5,032	2	5.0 3,32	.9 6.9	5.9 4,655	8
Sex																										
Male	27,788	7.0	23,449	6.8	515	7.3	4,143	6.7	1,56		6.9 7,19	7 6.7	626		6.9 7	03	7.8 1,37	2 6.0	981	1	5.9 3,319	9	5.0 77	9 7	7.0 2,253	8
Female	25,032		18,728	6.8	634	7.3			510		7.7 2,578	6.3	504		6.8 1,7	'48	0.3 53		596	5	7.3 1,712	2	5.8 2,54	.9 6.8	5.8 2,400	8
Citizenship status																										
U.S. citizen or permanent resident	33,766	7.1	25,736	6.7	721	7.2	6,760	6.3	77		7.0 4,313	6.0	751		6.6 1,8	324	0.8 89	7 5.8	772	2	7.0 2,995	5	5.8 2,95	6.9	5.9 2,982	. 8
Temporary visa holder	18,200			7.0	409	7.8			1,25		7.0 5,32	1 6.9	364		7.5 5	580	7.7 97	5 6.3	777	7	7.0 1,974	4	5.3 30	3 7	7.0 1,610	
Ethnicity and race (U.S. citizens and permanent residents)									·																	
Hispanic or Latino	3,260	7.3	2,467	6.8	61	7.5	697	6.3	4:	5	6.3 388	3 6.0	57		6.8 1	53	0.3	0 5.8	70		5.9 281	1	5.8 33	1 7.0	7.0 324	. 8
Not Hispanic or Latino																										
American Indian or Alaska Native	95	8.8	59	7.9	D	D	11	7.0)	D [D D	D		D	9 12	2.8	0 -	D		D [D	D	9 6.9	.9 15	8
Asian	3,699	7.0	3,137	6.8	45	8.4	885	6.8	18		7.3 70	5 6.3	56		7.7 1	87 9	0.1 13	1 5.8	107	7	7.0 336	6	5.9 21	9 7	7.0 285	
Black or African American	2,596		1,578		D	D	321	6.8			D [D	D		D 2	232 10	0.0 2	1 7.8	D		D [D	D 28	2 8.3		. 9
White	22,279		17,042	6.3	547	6.9		6.2	459		6.8 2,782	2 6.0	584		6.5 1,1	53	0.8 62	8 5.8	497	7	5.8 2,125	5	5.8 1,91			
More than one race	1,283		1,050	6.2	27	7.8	324	6.0	2		6.0 174				6.1	58	0.7	1 5.8	24	1	5.0 111		5.8 13	-	,	
Other race or race not reported	340		251	6.5	3	12.2	-	6.4			2.1 30	5.9	4		6.3	16 10	1 1	1 5.8			2.7 34		5.4 3	1 6.3		8

TABLE 3-5 Median years to science and engineering research doctorate, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2023 (Number and median years)

Time to degree and demographic characteristic	All 1	All fields		eering, total	Agricultural sciences	and natural resources	Biological and biomedical sciences		Computer and information sciences		Engineering		Geosciences, atmospheric, and ocean sciences			sciences	Mathematics and statistics		Multidisciplinary/ ir	ultidisciplinary/ interdisciplinary sciences		Physical sciences		hology	Social	sciences
	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number M	edian	Number	Median	Number	Median	Number	Median	Number	Median	Numbe	er Median	Number	Median	Number	Medi
Ethnicity not reported	214	8.1	152	7.0	5	7.6	28	5.9	10	6.	3 21	8.3	2	6.6	5 1	6 11.5	į	5.8	•	10	6.5	15 6	5.8 20	8.5	20	
Years since entering doctoral program ^a																										
Doctorate recipients reporting year of doctoral program entry ^b	52,050	5.7	41,586	5.6	1,132	5.0	8,995	5.8	2,031	5.	7 9,615	5.3	1,119	5.7	7 2,41	5 5.0	1,880	5.3	1,56	60	5.3 4,	967 5	5.7 3,270	5.9	4,602	2
Sex																										
Male	27,340	5.7	23,075	5.6	505	5.0	4,083	5.8	1,531	5.	7 7,068	5.3	620	5.5	5 69	0 5.0	1,353	5.3	97	73	5.6 3,	271 5	5.8 759	5.9	2,222	2
Female	24,703	5.8	18,504	5.7	627	5.0	4,911	5.7	500	5.	7 2,547	5.3	498	5.8	3 1,72	5 5.0	526	5.3	58	87	5.3 1,	695 5	5.3 2,510	5.9	2,378	ز
Citizenship status																										
U.S. citizen or permanent resident	33,211	5.8	25,326	5.8	708	5.0	6,668	5.8	745	5.	8 4,238	5.3	742	5.8	3 1,79	1 5.3	877	5.7	76	63	5.7 2,	949 5	5.7 2,89	7 5.9	2,948	3
Temporary visa holder	17,993	5.3	15,637	5.3	405	4.8	2,231	5.7	1,236	5.	4 5,241	5.2	362	5.3	3 57	9 5.0	971	5.1	76	69	5.3 1,	955 5	5.6 29	7 5.7	1,591	1
Ethnicity and race (U.S. citizens and permanent residents)																										
Hispanic or Latino	3,200	5.8	2,419	5.8	57	5.3	685	5.8	43	5.	9 381	5.3	57	5.8	3 14	9 5.2	59	5.3	(68	5.3	275 5	5.5 323	6.0	327	2
Not Hispanic or Latino																										
American Indian or Alaska Native	92	5.8	59	6.0	D	D	11	6.0	D		D D	D	D	С)	9 5.0	(-		D	D	D	D	6.9	1.5	ر
Asian	3,638	5.8	3,085	5.8	45	4.8	871	5.8	174	5.	9 692	5.6	56	5.8	3 18	4 5.0	129	5.3	10	06	5.8	333 5	5.8 21	5.9	28/	
Black or African American	2,527	5.8	1,545	5.8	D	D	313	5.8	D		D D	D	D	С) 22	8 5.6	20	5.9		D	D	D	D 27	6.0	281	
White	21,955	5.8	16,791	5.8	540	5.0	4,379	5.7	445	5.	8 2,740	5.3	577	5.8	3 1,13	3 5.2	612	5.7	49	91	5.7 2,	090 5	5.7 1,89	5.9	1,890	J
More than one race	1,265	5.8	1,036	5.8	27	5.8	321	5.8	21	5.	8 171	5.3	28	5.5	5 5	7 5.2	41	5.7	2	24	5.2	110 5	5.7 13	5 6.0	101	
Other race or race not reported	325	5.8	242	5.8	3	7.1	60	5.8	11	6.	3 33	5.5	4	5.8	3 1	6 5.5	11	5.8		6	5.5	34 5	5.4 29	5.9	3.	ر
Ethnicity not reported	209	5.8	149	5.8	4	7.4	28	5.5	9	4.	8 21	5.6	2	5.6	5 1	5 6.8	Į	5.8	•	10	5.3	15 6	5.3 20	6.0	20	ا ر

^{- =} not calculable; D = suppressed to avoid disclosure of confidential information.

Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information about the 2021 taxonomy change, see the "Technical Notes."

Source(s): National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

^a Years since entering doctoral program is based on master's degree program entry if the master's degree was at the doctoral institution in the same field of study or was a prerequisite to the doctorate; otherwise, it is based on doctoral program entry.

b Doctorate recipients reporting year of doctoral program entry includes only cases with valid year of entry into master's program if master's degree was at the doctoral institution in the same field of study or was a prerequisite to the doctorate; otherwise, includes only cases with valid year of doctoral program entry.