

Table 35

Doctorate recipients' primary source of financial support, by broad field of study, sex, citizenship status, ethnicity, and race: 2019

(Number and percent)

Field and primary source of support	Total ^a	Sex		Citizenship status		U.S. citizens and permanent residents							Ethnicity not reported
		Male	Female	U.S. citizen or permanent resident	Temporary visa holder	Hispanic or Latino	Not Hispanic or Latino						
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
All fields (number)	49,291	26,755	22,535	32,362	16,749	2,590	101	3,167	2,215	22,821	1,074	265	129
Teaching assistantships	21.4	21.4	21.2	20.2	23.5	19.2	11.9	19.0	12.1	21.5	18.1	18.9	18.6
Research assistantships or traineeships ^b	33.4	38.7	27.1	26.8	46.2	19.1	12.9	34.4	14.5	28.0	24.6	21.5	25.6
Fellowships, scholarships, or dissertation grants	24.8	23.0	26.9	27.5	19.6	35.9	45.5	31.6	26.1	25.6	34.3	30.6	25.6
Own resources	15.2	11.4	19.8	21.1	3.9	22.5	23.8	11.6	41.8	20.2	20.0	21.9	23.3
Employer	2.7	2.6	2.9	3.9	0.6	2.5	5.0	2.9	4.7	4.1	2.9	4.5	7.0
Other	2.5	2.9	2.0	0.6	6.2	0.9	1.0	0.5	0.7	0.6	0.2	2.6	0.0
Life sciences (number) ^c	11,581	5,258	6,323	8,434	3,117	715	23	968	496	5,856	286	59	31
Teaching assistantships	13.0	13.8	12.4	12.4	14.9	11.5	D	D	9.3	13.4	10.1	6.8	6.5
Research assistantships or traineeships ^b	37.1	39.7	34.8	33.6	46.3	24.3	26.1	36.0	23.6	35.4	33.2	30.5	22.6
Fellowships, scholarships, or dissertation grants	33.0	32.5	33.3	35.6	25.9	48.4	39.1	39.8	35.3	33.0	40.6	45.8	35.5
Own resources	11.5	8.6	13.8	14.5	3.2	13.4	D	D	27.8	14.2	13.3	11.9	19.4
Employer	2.6	2.3	2.9	3.3	0.8	1.7	D	D	3.0	3.5	2.1	3.4	16.1
Other	2.9	3.1	2.7	0.6	9.0	0.7	0.0	0.6	1.0	0.5	0.7	1.7	0.0
Physical sciences and earth sciences (number)	5,982	3,968	2,014	3,671	2,291	252	7	349	82	2,806	138	23	14
Teaching assistantships	25.5	25.3	25.8	23.1	29.2	23.4	D	D	30.5	22.8	21.0	21.7	21.4
Research assistantships or traineeships ^b	50.5	52.8	45.8	48.1	54.4	34.5	D	50.1	26.8	50.1	D	34.8	57.1
Fellowships, scholarships, or dissertation grants	18.3	16.0	22.8	22.1	12.0	34.1	D	22.3	30.5	20.5	D	21.7	21.4
Own resources	3.5	3.5	3.5	5.2	0.7	6.0	0.0	1.7	12.2	5.2	8.7	8.7	0.0
Employer	0.9	1.0	0.6	1.2	0.3	D	0.0	1.7	0.0	1.1	D	8.7	0.0

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(Number and percent)

Field and primary source of support	Total ^a	Sex		Citizenship status		U.S. citizens and permanent residents							Ethnicity not reported
		Male	Female	U.S. citizen or permanent resident	Temporary visa holder	Hispanic or Latino	Not Hispanic or Latino						
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Other	1.4	1.4	1.6	0.3	3.3	D	0.0	D	0.0	0.2	0.0	4.3	0.0
Mathematics and computer sciences (number)	3,791	2,822	969	1,654	2,120	95	D	234	64	1,166	68	D	6
Teaching assistantships	38.4	36.9	42.8	39.7	37.5	44.2	0.0	35.9	23.4	40.6	45.6	45.0	33.3
Research assistantships or traineeships ^b	36.3	39.3	27.8	26.5	43.9	26.3	0.0	35.5	15.6	26.2	19.1	10.0	16.7
Fellowships, scholarships, or dissertation grants	14.6	13.0	19.5	18.4	11.7	17.9	0.0	20.5	37.5	17.0	D	D	16.7
Own resources	5.3	5.4	5.1	9.6	1.9	6.3	D	D	14.1	10.2	7.4	20.0	16.7
Employer	2.4	2.7	1.3	4.9	0.4	5.3	0.0	D	9.4	5.2	D	0.0	16.7
Other	3.0	2.8	3.5	0.8	4.6	0.0	D	D	0.0	0.9	0.0	15.0	0.0
Psychology and social sciences (number)	7,829	3,182	4,647	6,051	1,740	553	27	405	520	4,238	230	54	24
Teaching assistantships	28.8	31.6	26.9	25.8	39.3	22.2	D	32.1	10.6	27.8	D	18.5	33.3
Research assistantships or traineeships ^b	16.8	15.0	18.0	17.1	15.6	11.4	D	D	10.4	19.3	13.0	13.0	29.2
Fellowships, scholarships, or dissertation grants	26.3	27.6	25.4	24.7	31.7	32.5	40.7	36.5	22.7	22.3	33.9	31.5	4.2
Own resources	24.5	20.9	27.0	29.6	6.8	32.0	29.6	17.3	51.5	27.7	29.1	35.2	33.3
Employer	1.7	2.4	1.3	D	D	D	D	D	3.8	2.2	D	0.0	0.0
Other	1.9	2.5	1.4	D	D	D	3.7	D	1.0	0.6	0.0	1.9	0.0
Engineering (number)	9,170	6,982	2,188	3,923	5,208	278	8	661	159	2,644	117	36	20
Teaching assistantships	11.4	11.0	12.8	9.2	13.1	6.5	D	12.4	13.8	8.4	9.4	D	10.0
Research assistantships or traineeships ^b	57.4	59.0	52.4	46.3	65.7	32.7	D	51.3	27.7	48.0	41.0	D	40.0

Table 35

Doctorate recipients' primary source of financial support, by broad field of study, sex, citizenship status, ethnicity, and race: 2019

(Number and percent)

Field and primary source of support	Total ^a	Sex		Citizenship status		U.S. citizens and permanent residents							Ethnicity not reported
		Male	Female	U.S. citizen or permanent resident	Temporary visa holder	Hispanic or Latino	Not Hispanic or Latino						
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Fellowships, scholarships, or dissertation grants	20.2	18.0	27.1	30.8	12.1	47.5	D	25.6	40.3	29.3	41.0	D	40.0
Own resources	4.6	4.9	3.9	7.7	2.3	7.9	D	7.1	D	7.8	4.3	13.9	5.0
Employer	2.5	2.8	1.6	5.4	0.4	3.2	D	3.5	D	5.9	4.3	8.3	5.0
Other	3.9	4.4	2.2	0.7	6.3	2.2	0.0	0.2	0.6	0.7	0.0	0.0	0.0
Education (number)	4,047	1,241	2,806	3,499	536	298	D	194	535	2,316	102	D	11
Teaching assistantships	11.8	12.0	11.7	10.5	20.1	9.4	0.0	16.0	6.7	11.2	8.8	13.6	9.1
Research assistantships or traineeships ^b	15.7	15.5	15.9	13.6	29.7	11.7	D	21.1	10.1	14.2	14.7	D	0.0
Fellowships, scholarships, or dissertation grants	12.8	12.7	12.9	11.7	20.0	14.8	57.1	16.5	14.2	9.9	14.7	9.1	9.1
Own resources	47.2	47.1	47.3	52.0	16.2	56.0	33.3	36.1	60.6	51.0	51.0	40.9	63.6
Employer	10.1	9.5	10.4	11.4	1.9	6.7	D	8.8	8.0	13.0	10.8	D	18.2
Other	2.2	3.2	1.8	0.7	12.1	1.3	0.0	1.5	0.4	0.6	0.0	4.5	0.0
Humanities and arts (number)	4,370	2,138	2,231	3,609	748	302	8	187	159	2,805	98	33	17
Teaching assistantships	39.2	36.9	41.4	39.3	38.8	41.4	D	35.8	32.7	40.3	26.5	D	35.3
Research assistantships or traineeships ^b	2.1	2.1	2.2	2.1	2.5	2.3	D	D	D	2.0	0.0	3.0	5.9
Fellowships, scholarships, or dissertation grants	37.8	38.8	36.8	35.9	46.5	33.8	D	43.9	D	35.1	51.0	39.4	35.3
Own resources	18.9	20.0	17.8	21.2	7.8	21.2	D	15.5	D	21.1	22.4	21.2	23.5
Employer	1.0	1.1	0.9	D	D	D	0.0	D	D	1.1	0.0	D	0.0
Other	1.0	1.2	0.9	D	D	D	0.0	1.6	0.0	0.4	0.0	0.0	0.0
Other (number) ^d	2,521	1,164	1,357	1,521	989	97	6	169	200	990	35	18	6
Teaching assistantships	21.5	21.9	21.1	19.0	25.4	19.6	D	18.3	9.0	20.8	D	33.3	0.0

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							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Research assistantships or traineeships ^b	18.5	19.3	17.8	14.6	24.4	12.4	D	26.6	D	14.2	D	11.1	16.7
Fellowships, scholarships, or dissertation grants	27.0	28.3	25.9	23.3	32.5	23.7	D	35.5	D	21.3	25.7	27.8	33.3
Own resources	27.0	24.1	29.4	37.0	11.7	36.1	0.0	16.6	57.0	36.8	40.0	27.8	50.0
Employer	3.3	3.4	3.2	4.9	0.8	8.2	0.0	3.0	4.0	5.4	0.0	0.0	0.0
Other	2.8	3.0	2.6	1.2	5.3	0.0	0.0	0.0	1.5	1.5	0.0	0.0	0.0

D = suppressed to avoid disclosure of confidential information.

^a Includes doctorate recipients with missing citizenship information and who did not report sex.^b Includes research assistantships, other assistantships, traineeships, and internships or clinical residencies.^c Includes agricultural sciences and natural resources; biological and biomedical sciences; and health sciences.^d Includes other non-science and engineering fields not shown separately.**Note(s):**

Includes only doctorate recipients who reported primary source of support. Due to rounding, percentages may not sum to 100.

Source(s):

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