

Table 4-1

Research doctorate recipients' primary source of financial support, by broad field of doctorate, sex, citizenship status, ethnicity, and race: 2022

(Percent)

Field and primary source of support	Total ^a	Sex		Citizenship status		U.S. citizens and permanent residents							
		Male	Female	U.S. citizen or permanent resident	Temporary visa holder	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
All doctorate recipients (number)	57,596	30,522	27,069	35,311	19,633	3,354	98	3,586	2,647	23,320	1,210	425	671
All doctorate recipients reporting primary source of support, all fields (number)	51,170	27,154	24,011	32,673	18,210	3,124	79	3,328	2,429	22,095	1,168	282	168
Teaching assistantships	21.7	22.1	21.2	19.8	25.0	19.0	13.9	19.3	10.5	21.0	19.6	23.4	20.8
Research assistantships or traineeships ^b	35.0	40.3	29.0	27.9	47.7	21.4	12.7	33.9	14.2	29.6	26.5	23.8	30.4
Fellowships, scholarships, or dissertation grants	24.6	22.9	26.6	27.6	19.3	36.3	45.6	31.1	27.8	25.5	33.6	24.8	25.0
Own resources	14.6	10.6	19.2	20.3	4.3	19.9	24.1	13.3	41.7	19.2	17.0	22.3	20.2
Employer or other sources	4.1	4.1	4.1	4.3	3.7	3.4	3.8	2.5	5.8	4.6	3.3	5.7	3.6
Science and engineering (number)	41,086	22,997	18,088	24,917	15,935	2,365	50	2,802	1,501	16,926	938	210	125
Teaching assistantships	20.8	21.3	20.0	18.5	24.3	16.7	D	18.2	10.7	19.4	18.4	D	19.2
Research assistantships or traineeships ^b	40.9	45.7	34.9	34.0	51.8	26.0	D	37.7	18.2	36.1	31.2	D	37.6
Fellowships, scholarships, or dissertation grants	24.2	21.8	27.4	28.8	17.1	39.8	42.0	30.8	33.2	26.3	34.3	23.8	26.4
Own resources	10.8	7.7	14.6	15.4	3.4	15.0	24.0	11.0	34.0	14.6	13.6	19.0	14.4
Employer or other sources	3.4	3.5	3.1	3.3	3.4	2.6	D	2.2	3.9	3.6	2.3	D	2.4
Agricultural sciences and natural resources (number)	1,172	569	603	701	466	67	D	39	33	532	17	D	5
Teaching assistantships	11.1	10.2	11.9	11.7	10.3	9.0	0.0	15.4	D	12.2	D	D	0.0
Research assistantships or traineeships ^b	53.2	56.9	49.8	48.4	60.5	40.3	0.0	38.5	39.4	51.1	52.9	25.0	40.0
Fellowships, scholarships, or dissertation grants	19.9	17.6	22.1	20.7	18.9	29.9	D	28.2	21.2	18.8	D	0.0	40.0
Own resources	9.2	8.8	9.6	13.1	3.2	14.9	D	15.4	D	11.7	D	50.0	20.0
Employer or other sources	6.6	6.5	6.6	6.1	7.1	6.0	0.0	2.6	15.2	6.2	0.0	0.0	0.0

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Biological and biomedical sciences (number)	8,601	3,989	4,612	6,351	2,210	692	7	782	304	4,238	266	40	22
Teaching assistantships	14.1	13.9	14.2	12.8	17.9	9.8	D	11.1	6.3	14.0	12.8	D	9.1
Research assistantships or traineeships ^b	37.7	39.2	36.4	34.5	47.1	22.8	D	32.5	D	37.7	27.1	40.0	50.0
Fellowships, scholarships, or dissertation grants	37.6	36.2	38.8	41.1	27.5	58.5	D	46.5	D	36.2	49.2	40.0	27.3
Own resources	7.7	7.5	7.8	9.3	2.9	7.2	D	7.8	15.5	9.5	8.6	D	9.1
Employer or other sources	3.0	3.2	2.8	2.3	4.7	1.6	0.0	2.0	1.6	2.5	2.3	5.0	4.5
Computer and information sciences (number)	1,948	1,483	465	715	1,225	41	D	145	35	447	25	D	5
Teaching assistantships	18.1	17.9	18.5	12.0	21.6	D	0.0	13.8	D	13.4	D	0.0	20.0
Research assistantships or traineeships ^b	57.6	59.0	53.1	47.3	63.9	39.0	D	47.6	D	50.1	44.0	56.3	20.0
Fellowships, scholarships, or dissertation grants	14.3	13.0	18.3	20.6	10.4	29.3	0.0	22.8	51.4	16.6	28.0	12.5	20.0
Own resources	6.9	6.7	7.5	14.3	2.5	D	0.0	13.1	25.7	13.9	D	18.8	40.0
Employer or other sources	3.2	3.4	2.6	5.9	1.6	14.6	0.0	2.8	0.0	6.0	D	D	0.0
Engineering (number)	9,584	6,977	2,607	4,105	5,410	339	D	625	176	2,733	159	D	38
Teaching assistantships	12.0	12.0	11.9	8.3	14.7	5.6	0.0	10.6	7.4	8.1	8.2	3.2	15.8
Research assistantships or traineeships ^b	59.6	61.0	55.9	48.8	67.8	37.2	D	56.8	30.7	49.8	D	45.2	47.4
Fellowships, scholarships, or dissertation grants	19.5	17.6	24.7	30.3	11.4	47.2	D	23.2	40.3	29.1	35.2	D	26.3
Own resources	5.0	5.0	5.1	7.7	2.9	6.2	0.0	7.0	15.9	7.4	7.5	16.1	10.5
Employer or other sources	3.9	4.4	2.4	4.9	3.1	3.8	D	2.4	5.7	5.6	D	12.9	0.0

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Research doctorate recipients' primary source of financial support, by broad field of doctorate, sex, citizenship status, ethnicity, and race: 2022

(Percent)

Field and primary source of support	Total ^a	Sex		Citizenship status		U.S. citizens and permanent residents							
		Male	Female	U.S. citizen or permanent resident	Temporary visa holder	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported
							American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Geosciences, atmospheric, and ocean sciences (number)	1,069	573	496	699	362	59	0	43	14	556	22	2	3
Teaching assistantships	17.0	18.5	15.3	17.6	16.0	15.3	-	18.6	D	17.3	D	50.0	0.0
Research assistantships or traineeships ^b	50.6	50.8	50.4	46.4	58.8	35.6	-	44.2	D	48.9	D	0.0	33.3
Fellowships, scholarships, or dissertation grants	24.4	21.3	28.0	27.8	18.0	35.6	-	34.9	35.7	25.5	36.4	50.0	66.7
Own resources	4.2	4.7	3.6	D	D	8.5	-	0.0	D	5.8	D	0.0	0.0
Employer or other sources	3.7	4.7	2.6	D	D	5.1	-	2.3	D	2.5	0.0	0.0	0.0
Health sciences (number)	2,448	757	1,691	1,842	595	147	D	180	253	1,192	49	D	8
Teaching assistantships	12.1	14.3	11.2	9.2	20.8	8.2	D	13.3	4.0	9.5	D	20.0	0.0
Research assistantships or traineeships ^b	24.1	31.2	20.9	20.3	36.0	17.0	0.0	24.4	9.5	22.1	26.5	20.0	25.0
Fellowships, scholarships, or dissertation grants	22.5	22.9	22.4	22.2	23.4	27.2	D	26.1	24.1	20.8	16.3	D	37.5
Own resources	33.1	24.0	37.1	40.3	11.1	41.5	D	31.7	55.3	38.6	D	40.0	37.5
Employer or other sources	8.2	7.7	8.4	8.0	8.7	6.1	0.0	4.4	7.1	9.0	8.2	10.0	0.0
Mathematics and statistics (number)	1,924	1,367	557	891	1,019	55	D	112	26	630	48	D	5
Teaching assistantships	63.7	64.5	61.6	61.8	65.6	D	0.0	55.4	65.4	63.5	60.4	D	40.0
Research assistantships or traineeships ^b	14.2	14.3	14.0	12.9	15.4	18.2	D	17.9	D	11.9	D	0.0	20.0
Fellowships, scholarships, or dissertation grants	15.9	15.2	17.4	17.1	14.5	18.2	D	18.8	D	16.2	22.9	D	20.0
Own resources	4.7	4.5	5.0	D	D	D	0.0	7.1	D	6.8	D	0.0	20.0
Employer or other sources	1.6	1.4	2.0	D	D	0.0	0.0	0.9	D	1.6	0.0	7.7	0.0

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Research doctorate recipients' primary source of financial support, by broad field of doctorate, sex, citizenship status, ethnicity, and race: 2022

(Percent)

Field and primary source of support	Total ^a	Sex		Citizenship status		U.S. citizens and permanent residents							
		Male	Female	U.S. citizen or permanent resident	Temporary visa holder	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported
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Multidisciplinary/interdisciplinary sciences (number)	1,566	997	569	737	825	77	D	96	36	480	26	D	5
Teaching assistantships	19.6	18.7	21.3	17.8	21.2	14.3	0.0	20.8	D	17.3	D	37.5	20.0
Research assistantships or traineeships ^b	47.6	53.0	38.1	36.2	57.8	36.4	0.0	52.1	19.4	34.6	38.5	25.0	40.0
Fellowships, scholarships, or dissertation grants	19.7	17.1	24.3	25.4	14.7	33.8	0.0	14.6	25.0	26.0	34.6	18.8	20.0
Own resources	9.2	7.0	13.0	16.4	2.5	14.3	D	10.4	D	16.7	D	D	0.0
Employer or other sources	4.0	4.3	3.3	4.2	3.8	1.3	0.0	2.1	2.8	5.4	0.0	0.0	20.0
Physical sciences (number)	4,912	3,302	1,610	2,915	1,973	241	D	302	78	2,153	104	D	10
Teaching assistantships	26.0	26.3	25.2	22.6	30.9	22.8	0.0	28.1	15.4	21.6	27.9	43.5	30.0
Research assistantships or traineeships ^b	52.9	54.1	50.2	50.8	55.9	41.9	D	48.7	25.6	53.1	51.0	D	60.0
Fellowships, scholarships, or dissertation grants	16.9	14.9	21.0	21.1	10.8	30.7	D	19.5	48.7	19.5	16.3	D	10.0
Own resources	3.2	3.5	2.7	4.5	1.3	3.7	0.0	2.6	7.7	4.8	4.8	0.0	0.0
Employer or other sources	1.0	1.1	0.9	1.0	1.2	0.8	0.0	1.0	2.6	1.0	0.0	0.0	0.0
Psychology (number)	3,273	816	2,457	2,951	295	331	8	208	269	1,990	113	21	11
Teaching assistantships	23.6	27.8	22.3	22.4	35.3	21.5	0.0	20.7	8.9	24.8	20.4	9.5	36.4
Research assistantships or traineeships ^b	22.3	21.8	22.5	21.9	27.1	21.1	D	23.6	12.3	23.6	18.6	D	9.1
Fellowships, scholarships, or dissertation grants	17.6	17.4	17.7	17.7	16.6	19.9	D	23.6	20.4	15.9	23.9	D	18.2
Own resources	34.2	30.6	35.4	36.0	16.3	35.3	D	29.8	56.5	33.7	36.3	D	27.3
Employer or other sources	2.3	2.3	2.2	2.0	4.7	2.1	0.0	2.4	1.9	2.0	0.9	0.0	9.1
Social sciences (number)	4,589	2,167	2,421	3,010	1,555	316	16	270	277	1,975	109	34	13

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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	
Teaching assistantships	35.4	37.1	33.8	33.0	40.0	34.2	31.3	33.3	18.8	35.3	22.9	35.3	38.5
Research assistantships or traineeships ^b	13.8	12.5	15.0	13.0	15.5	10.1	D	13.0	11.6	13.6	D	8.8	15.4
Fellowships, scholarships, or dissertation grants	32.9	33.9	31.9	31.5	35.7	33.9	D	39.3	28.2	30.0	D	32.4	30.8
Own resources	14.6	12.7	16.2	19.2	5.3	20.3	31.3	12.2	37.5	17.5	17.4	17.6	15.4
Employer or other sources	3.4	3.8	3.0	3.3	3.5	1.6	0.0	2.2	4.0	3.6	2.8	5.9	0.0
Non-science and engineering (number)	10,084	4,157	5,923	7,756	2,275	759	29	526	928	5,169	230	72	43
Teaching assistantships	25.4	26.4	24.7	24.0	30.5	26.5	D	24.7	10.2	26.1	24.3	D	25.6
Research assistantships or traineeships ^b	10.9	10.5	11.1	8.5	19.0	7.1	D	13.7	7.8	8.3	7.0	D	9.3
Fellowships, scholarships, or dissertation grants	26.2	29.2	24.2	23.8	34.4	25.6	51.7	32.3	19.0	23.0	30.9	27.8	20.9
Own resources	30.4	26.4	33.2	36.2	10.5	35.0	24.1	25.5	54.2	34.6	30.9	31.9	37.2
Employer or other sources	7.1	7.4	6.9	7.5	5.6	5.8	D	3.8	8.8	8.0	7.0	D	7.0
Business (number)	1,207	677	530	589	607	45	D	102	78	340	12	D	2
Teaching assistantships	17.0	17.0	17.0	12.1	21.9	13.3	0.0	11.8	D	12.6	0.0	D	0.0
Research assistantships or traineeships ^b	23.5	23.0	24.2	18.2	28.5	D	0.0	23.5	D	18.5	D	37.5	0.0
Fellowships, scholarships, or dissertation grants	31.6	33.2	29.6	27.0	36.2	15.6	D	41.2	17.9	26.2	D	0.0	50.0
Own resources	22.5	20.8	24.5	35.7	9.6	44.4	0.0	21.6	55.1	34.4	41.7	37.5	0.0
Employer or other sources	5.4	5.9	4.7	7.1	3.8	D	0.0	2.0	9.0	8.2	D	0.0	50.0
Education (number)	3,337	979	2,358	2,890	427	305	16	154	524	1,781	77	21	12
Teaching assistantships	11.6	13.0	11.0	10.0	22.2	8.9	0.0	16.9	5.7	10.9	13.0	9.5	8.3
Research assistantships or traineeships ^b	14.5	14.6	14.5	12.9	25.8	10.8	D	17.5	10.1	13.5	15.6	D	25.0

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Fellowships, scholarships, or dissertation grants	14.3	14.4	14.3	12.9	23.0	19.0	43.8	20.8	13.4	10.3	23.4	19.0	8.3
Own resources	46.3	42.7	47.8	50.9	15.9	51.5	D	35.7	60.1	50.2	37.7	D	50.0
Employer or other sources	13.3	15.3	12.5	13.3	13.1	9.8	D	9.1	10.7	15.1	10.4	D	8.3
Humanities (number)	2,952	1,461	1,489	2,423	521	253	D	114	127	1,804	76	D	20
Teaching assistantships	40.2	37.4	43.0	39.5	44.1	47.0	D	35.1	24.4	D	32.9	D	40.0
Research assistantships or traineeships ^b	1.3	1.3	1.3	D	D	D	0.0	D	0.0	D	D	0.0	0.0
Fellowships, scholarships, or dissertation grants	37.2	38.6	35.9	35.4	46.1	32.8	D	D	44.9	34.4	D	40.7	25.0
Own resources	18.4	19.0	17.7	21.0	6.0	17.4	0.0	18.4	27.6	21.2	19.7	22.2	30.0
Employer or other sources	2.9	3.7	2.1	D	D	D	0.0	2.6	3.1	2.9	5.3	0.0	5.0
Visual and performing arts (number)	745	324	421	577	166	55	D	48	28	414	20	D	4
Teaching assistantships	35.6	36.4	34.9	33.8	42.2	32.7	D	29.2	D	34.3	35.0	0.0	50.0
Research assistantships or traineeships ^b	2.6	2.8	2.4	D	D	D	0.0	D	D	2.4	0.0	0.0	0.0
Fellowships, scholarships, or dissertation grants	41.3	38.0	43.9	40.9	43.4	45.5	D	D	39.3	38.9	40.0	66.7	50.0
Own resources	18.9	20.4	17.8	21.5	10.2	14.5	0.0	14.6	17.9	23.9	D	D	0.0
Employer or other sources	1.6	2.5	1.0	D	D	D	0.0	2.1	0.0	0.5	D	0.0	0.0
Other non-science and engineering (number)	1,843	716	1,125	1,277	554	101	7	108	171	830	45	10	5
Teaching assistantships	28.1	26.8	29.0	27.4	29.8	30.7	28.6	35.2	8.8	29.6	31.1	40.0	0.0
Research assistantships or traineeships ^b	14.7	15.5	14.0	10.1	25.3	6.9	0.0	15.7	7.0	10.8	2.2	10.0	20.0

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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	
Fellowships, scholarships, or dissertation grants	20.5	22.5	19.3	17.3	27.6	20.8	57.1	22.2	14.0	16.5	22.2	10.0	0.0
Own resources	30.7	27.2	32.8	38.8	11.9	36.6	14.3	26.9	61.4	35.8	42.2	40.0	80.0
Employer or other sources	6.1	8.0	4.9	6.3	5.4	5.0	0.0	0.0	8.8	7.2	2.2	0.0	0.0

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

^a Includes doctorate recipients who did not report sex or citizenship status.

^b Includes research assistantships, other assistantships, traineeships, internships, or clinical residencies.

Note(s):

Due to rounding, percentages may not sum to 100. 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, see the "Technical Notes" and the SED 2021 Taxonomy Changes Working Paper (available at <https://nces.nsf.gov/pubs/nces23200>).

Source(s):

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