

Table 4-1. Research doctorate recipients' primary source of financial support, by broad field of doctorate, sex, citizenship status, ethnicity, and race: 2024

(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 reporting primary source of support, all fields (number)	51,407	26,436	24,971	33,336	17,846	3,385	98	3,757	2,667	21,502	1,342	415	170
Teaching assistantships	20.4	21.1	19.8	18.9	23.3	18.1	8.2	17.2	11.1	20.5	16.8	16.4	18.2
Research assistantships or traineeships ^b	36.1	41.2	30.7	29.3	48.9	24.0	14.3	37.4	16.8	30.4	29.3	27.7	28.2
Fellowships, scholarships, or dissertation grants	24.2	22.7	25.9	26.6	19.9	34.7	37.8	31.0	27.0	24.0	33.6	28.7	24.1
Own resources	15.0	11.0	19.3	20.6	4.5	20.0	32.7	11.7	39.3	20.1	16.2	23.9	22.4
Employer or other sources	4.2	4.0	4.3	4.5	3.5	3.2	7.1	2.7	5.8	4.9	4.2	3.4	7.1
Science and engineering (number)	41,332	22,484	18,848	25,660	15,497	2,646	61	3,265	1,692	16,482	1,061	320	133
Teaching assistantships	19.5	20.0	18.8	17.7	22.4	17.2	D	16.4	12.6	18.8	14.3	D	15.0
Research assistantships or traineeships ^b	42.2	46.8	36.8	35.4	53.6	28.5	D	40.8	20.8	37.1	35.0	D	33.8
Fellowships, scholarships, or dissertation grants	23.8	21.6	26.3	27.6	17.4	36.5	45.9	30.5	32.0	24.7	34.6	28.1	22.6
Own resources	11.3	8.2	14.9	16.0	3.5	15.5	23.0	10.0	30.4	15.7	13.4	20.6	20.3
Employer or other sources	3.3	3.4	3.2	3.4	3.1	2.3	4.9	2.2	4.2	3.7	2.7	2.8	8.3
Agricultural sciences and natural resources (number)	1,182	544	638	685	493	53	D	D	37	520	12	8	4
Teaching assistantships	12.4	10.8	13.6	15.0	8.5	20.8	0.0	10.6	D	15.6	D	D	25.0
Research assistantships or traineeships ^b	52.3	54.8	50.2	43.9	63.9	34.0	D	51.1	48.6	44.2	50.0	D	25.0
Fellowships, scholarships, or dissertation grants	19.0	17.6	20.1	19.9	17.6	18.9	D	21.3	21.6	18.8	D	37.5	25.0
Own resources	9.5	8.8	10.0	13.7	3.7	18.9	D	D	D	13.8	0.0	12.5	25.0
Employer or other sources	6.9	7.9	6.1	7.4	6.3	7.5	25.0	10.6	5.4	7.5	0.0	0.0	0.0
Biological and biomedical sciences (number)	8,950	3,920	5,030	6,669	2,252	804	12	943	309	4,195	293	83	30
Teaching assistantships	12.8	13.5	12.3	12.3	14.3	9.6	D	D	8.4	14.2	8.2	9.6	3.3
Research assistantships or traineeships ^b	40.3	40.9	39.9	36.4	51.8	28.6	D	D	27.8	38.1	31.7	30.1	50.0
Fellowships, scholarships, or dissertation grants	35.2	34.8	35.5	38.3	26.4	51.1	41.7	40.5	48.5	34.0	45.1	42.2	36.7
Own resources	9.2	8.3	9.8	10.7	4.5	9.5	D	D	12.3	11.1	13.7	15.7	6.7
Employer or other sources	2.5	2.4	2.5	2.3	3.0	1.2	0.0	2.0	2.9	2.6	1.4	2.4	3.3
Computer and information sciences (number)	2,217	1,642	575	881	1,319	58	D	198	D	503	41	23	4
Teaching assistantships	15.9	15.7	16.3	10.4	19.3	D	0.0	15.7	9.4	8.7	D	0.0	0.0
Research assistantships or traineeships ^b	57.7	59.2	53.4	48.8	63.8	46.6	0.0	54.5	30.2	48.7	51.2	52.2	25.0
Fellowships, scholarships, or dissertation grants	14.9	13.7	18.3	20.0	11.4	D	0.0	19.2	D	20.1	14.6	17.4	0.0
Own resources	7.5	7.1	8.9	14.8	2.7	20.7	D	8.1	D	14.5	D	30.4	75.0
Employer or other sources	4.0	4.3	3.1	6.0	2.7	6.9	0.0	2.5	3.8	8.0	4.9	0.0	0.0
Engineering (number)	9,303	6,714	2,589	4,300	4,961	361	7	727	209	2,723	183	57	33
Teaching assistantships	10.3	10.8	9.0	7.7	12.6	7.5	D	D	7.7	7.6	6.6	7.0	9.1
Research assistantships or traineeships ^b	60.6	61.7	57.7	50.0	69.8	39.9	D	D	30.1	52.1	46.4	47.4	48.5
Fellowships, scholarships, or dissertation grants	20.0	17.9	25.7	29.9	11.5	40.7	D	D	45.0	27.7	36.1	31.6	30.3
Own resources	5.3	5.5	4.8	7.9	3.0	7.2	D	D	12.9	7.9	6.0	10.5	9.1

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		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	
Employer or other sources	3.7	4.1	2.7	4.4	3.1	4.7	0.0	3.0	4.3	4.8	4.9	3.5	3.0
Geosciences, atmospheric, and ocean sciences (number)	1,105	552	553	774	329	73	D	D	22	582	36	2	3
Teaching assistantships	17.8	17.8	17.9	17.8	17.9	D	0.0	18.2	D	18.4	D	50.0	0.0
Research assistantships or traineeships ^b	48.6	51.8	45.4	44.2	59.0	31.5	0.0	45.5	D	45.9	D	50.0	33.3
Fellowships, scholarships, or dissertation grants	25.2	21.6	28.9	28.6	17.3	42.5	D	29.1	D	25.9	30.6	0.0	33.3
Own resources	5.9	5.8	6.0	7.5	2.1	D	0.0	D	D	7.9	D	0.0	33.3
Employer or other sources	2.4	3.1	1.8	1.9	3.6	2.7	0.0	1.8	4.5	1.9	0.0	0.0	0.0
Health sciences (number)	2,472	747	1,725	1,898	560	159	7	181	282	1,171	56	33	9
Teaching assistantships	11.2	13.0	10.5	9.6	16.8	8.2	0.0	14.9	8.9	9.3	8.9	6.1	11.1
Research assistantships or traineeships ^b	25.3	32.5	22.2	21.8	37.0	18.9	0.0	28.7	16.0	22.3	28.6	27.3	0.0
Fellowships, scholarships, or dissertation grants	22.9	22.1	23.3	21.9	27.0	28.3	D	D	20.6	19.6	28.6	27.3	11.1
Own resources	32.2	24.2	35.7	39.0	9.5	40.3	D	D	48.6	39.5	28.6	33.3	55.6
Employer or other sources	8.3	8.2	8.3	7.8	9.8	4.4	14.3	3.9	6.0	9.3	5.4	6.1	22.2
Mathematics and statistics (number)	1,801	1,246	555	865	926	59	D	D	29	596	32	13	6
Teaching assistantships	63.1	64.2	60.7	61.3	64.6	64.4	0.0	51.9	41.4	63.4	68.8	69.2	66.7
Research assistantships or traineeships ^b	15.8	15.7	16.0	12.3	19.1	10.2	0.0	D	D	12.6	0.0	23.1	0.0
Fellowships, scholarships, or dissertation grants	15.4	15.0	16.4	18.4	12.9	D	D	24.8	31.0	16.1	D	7.7	0.0
Own resources	4.1	3.9	4.5	6.5	1.8	D	0.0	6.2	D	6.5	D	0.0	0.0
Employer or other sources	1.6	1.3	2.3	1.6	1.6	0.0	0.0	2.3	3.4	1.3	0.0	0.0	33.3
Multidisciplinary/ interdisciplinary sciences (number)	1,481	907	574	776	697	78	D	D	50	486	31	10	5
Teaching assistantships	19.4	19.0	20.2	17.8	21.2	19.2	0.0	D	14.0	18.7	D	30.0	20.0
Research assistantships or traineeships ^b	47.0	51.6	39.7	36.5	59.0	29.5	D	42.9	18.0	38.3	D	40.0	40.0
Fellowships, scholarships, or dissertation grants	19.0	16.5	22.8	24.5	13.1	34.6	D	24.1	26.0	22.2	D	20.0	0.0
Own resources	10.5	8.8	13.2	16.0	4.2	14.1	D	14.3	36.0	15.0	D	0.0	0.0
Employer or other sources	4.1	4.1	4.0	5.3	2.6	2.6	0.0	3.6	6.0	5.8	3.2	10.0	40.0
Physical sciences (number)	4,882	3,220	1,662	2,903	1,963	304	D	359	D	1,993	113	27	13
Teaching assistantships	24.4	24.0	25.0	22.4	27.4	24.0	0.0	22.8	22.8	22.2	16.8	37.0	15.4
Research assistantships or traineeships ^b	54.9	56.7	51.2	51.8	59.3	42.8	0.0	52.1	41.3	53.4	58.4	44.4	53.8
Fellowships, scholarships, or dissertation grants	16.3	15.3	18.4	19.7	11.5	28.0	D	20.6	D	17.9	20.4	11.1	15.4
Own resources	3.6	3.2	4.4	5.4	0.9	4.9	0.0	3.9	5.4	5.7	4.4	3.7	15.4
Employer or other sources	0.9	0.8	1.0	0.8	1.0	0.3	0.0	0.6	2.2	0.9	0.0	3.7	0.0
Psychology (number)	3,291	801	2,490	2,976	302	372	7	231	311	1,871	143	29	12
Teaching assistantships	23.9	29.6	22.1	22.7	35.8	18.3	0.0	26.8	13.5	25.2	16.8	17.2	33.3
Research assistantships or traineeships ^b	23.4	20.6	24.3	22.8	29.5	21.5	D	D	12.5	24.7	25.2	20.7	8.3
Fellowships, scholarships, or dissertation grants	16.6	17.0	16.5	16.5	17.2	21.5	D	D	17.7	13.4	28.7	10.3	0.0

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Own resources	33.6	30.7	34.6	35.8	13.2	37.4	D	D	53.1	34.3	27.3	51.7	50.0
Employer or other sources	2.4	2.1	2.4	2.2	4.3	1.3	0.0	0.9	3.2	2.4	2.1	0.0	8.3
Social sciences (number)	4,648	2,191	2,457	2,933	1,695	325	15	283	298	1,842	121	35	14
Teaching assistantships	33.6	33.9	33.3	29.6	40.4	35.4	D	D	17.8	31.2	24.8	20.0	21.4
Research assistantships or traineeships ^b	15.4	14.6	16.0	15.0	16.0	13.2	D	D	10.4	16.3	14.0	8.6	7.1
Fellowships, scholarships, or dissertation grants	32.2	33.4	31.1	30.2	35.5	32.9	40.0	39.6	34.2	26.9	39.7	34.3	28.6
Own resources	14.9	13.3	16.2	21.0	4.2	15.7	D	D	32.6	21.2	15.7	34.3	28.6
Employer or other sources	4.0	4.8	3.3	4.1	3.8	2.8	6.7	1.1	5.0	4.5	5.8	2.9	14.3
Non-science and engineering (number)	10,075	3,952	6,123	7,676	2,349	739	37	492	975	5,020	281	95	37
Teaching assistantships	24.5	27.2	22.7	23.1	29.0	21.4	D	22.6	8.4	26.2	26.0	D	29.7
Research assistantships or traineeships ^b	11.2	9.7	12.2	9.1	18.1	8.0	D	14.8	9.8	8.6	7.8	D	8.1
Fellowships, scholarships, or dissertation grants	26.3	28.8	24.6	23.2	36.0	28.1	24.3	33.9	18.3	21.9	29.9	30.5	29.7
Own resources	30.3	26.7	32.7	36.3	10.9	35.9	48.6	22.6	54.9	34.6	26.7	34.7	29.7
Employer or other sources	7.7	7.6	7.8	8.3	5.9	6.6	10.8	6.1	8.6	8.7	9.6	5.3	2.7
Business (number)	1,149	614	535	566	575	39	D	98	87	307	13	D	4
Teaching assistantships	16.7	D	D	11.1	22.4	D	0.0	19.4	D	11.4	D	0.0	25.0
Research assistantships or traineeships ^b	21.8	D	D	18.0	25.6	D	0.0	20.4	11.5	20.2	D	31.3	0.0
Fellowships, scholarships, or dissertation grants	31.6	31.9	31.2	23.3	39.3	23.1	0.0	41.8	11.5	19.9	38.5	31.3	25.0
Own resources	25.2	23.5	27.1	41.7	9.0	59.0	D	17.3	D	42.0	D	D	50.0
Employer or other sources	4.8	5.5	3.9	5.8	3.7	0.0	50.0	1.0	8.0	6.5	23.1	6.3	0.0
Education (number)	3,396	907	2,489	2,912	471	303	22	155	509	1,791	97	23	12
Teaching assistantships	10.5	12.3	9.8	9.3	17.4	8.9	D	D	4.3	10.3	12.4	4.3	16.7
Research assistantships or traineeships ^b	14.8	14.3	14.9	12.8	27.0	10.6	D	D	11.8	12.8	8.2	8.7	8.3
Fellowships, scholarships, or dissertation grants	13.7	12.7	14.1	11.9	24.2	17.8	D	D	12.2	10.0	21.6	13.0	8.3
Own resources	46.7	43.8	47.7	51.0	20.2	51.5	45.5	33.5	59.9	50.4	39.2	65.2	58.3
Employer or other sources	14.4	16.9	13.5	15.0	11.3	11.2	13.6	13.5	11.8	16.6	18.6	8.7	8.3
Humanities (number)	2,859	1,390	1,469	2,240	605	229	5	103	126	1,658	77	30	12
Teaching assistantships	39.6	38.1	41.0	38.7	43.0	36.2	0.0	26.2	23.0	41.1	40.3	36.7	41.7
Research assistantships or traineeships ^b	2.1	1.1	3.0	1.9	2.6	3.1	0.0	D	4.0	1.5	D	D	8.3
Fellowships, scholarships, or dissertation grants	36.9	36.2	37.6	35.1	43.5	37.6	D	D	42.1	32.7	40.3	40.0	41.7
Own resources	18.0	20.1	16.1	21.3	6.3	21.0	D	16.5	29.4	21.4	D	D	8.3
Employer or other sources	3.4	4.5	2.3	3.0	4.6	2.2	0.0	2.9	1.6	3.4	1.3	0.0	0.0
Visual and performing arts (number)	766	332	434	605	160	51	D	39	23	444	30	D	4
Teaching assistantships	36.2	D	D	38.0	29.4	D	0.0	D	D	39.4	D	D	25.0
Research assistantships or traineeships ^b	2.7	D	D	2.3	4.4	D	D	D	0.0	2.0	D	0.0	0.0

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		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	40.3	40.4	40.3	38.5	46.9	47.1	D	D	43.5	36.0	40.0	60.0	50.0
Own resources	19.5	18.7	20.0	20.2	16.9	13.7	D	23.1	D	21.6	D	0.0	25.0
Employer or other sources	1.3	0.9	1.6	1.0	2.5	2.0	0.0	2.6	0.0	0.9	0.0	0.0	0.0
Other non-science and engineering (number)	1,905	709	1,196	1,353	538	117	D	97	230	820	64	D	5
Teaching assistantships	26.7	28.6	25.6	25.3	30.5	23.9	0.0	35.1	7.8	29.5	25.0	12.5	40.0
Research assistantships or traineeships ^b	15.5	13.5	16.7	12.2	24.0	12.0	0.0	12.4	9.1	12.9	14.1	12.5	20.0
Fellowships, scholarships, or dissertation grants	23.9	26.8	22.2	21.1	31.2	29.9	0.0	32.0	18.7	19.0	23.4	18.8	40.0
Own resources	27.1	24.3	28.8	34.5	8.4	26.5	D	16.5	57.8	31.3	29.7	D	0.0
Employer or other sources	6.7	6.8	6.7	6.9	5.9	7.7	0.0	4.1	6.5	7.2	7.8	12.5	0.0

D = suppressed to avoid disclosure of confidential information.

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

^b Research assistantships or traineeships 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 about the 2021 taxonomy change, see the "Technical Notes."

Source(s):

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