

Table 4-1

Research doctorate recipients' primary source of financial support, by broad field of doctorate, sex, citizenship status, ethnicity, and race: 2021

(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)	52,250	28,082	24,156	31,674	17,638	2,856	100	3,022	2,431	21,333	1,088	376	468
All doctorate recipients reporting primary source of support, all fields (number)	46,056	24,907	21,147	29,394	16,399	2,620	87	2,848	2,202	20,144	1,036	286	171
Teaching assistantships	21.3	21.9	20.5	19.5	24.4	18.4	10.3	17.0	10.6	21.0	18.9	21.3	23.4
Research assistantships or traineeships ^b	34.7	39.9	28.6	27.6	47.4	20.6	13.8	35.1	13.2	29.4	23.9	24.1	21.1
Fellowships, scholarships, or dissertation grants	24.2	22.5	26.3	27.0	19.4	34.4	36.8	31.6	25.8	25.1	33.7	25.9	24.0
Own resources	15.3	11.1	20.2	21.3	4.4	23.2	33.3	13.4	44.3	19.6	20.7	22.4	26.3
Employer or other sources	4.5	4.7	4.4	4.6	4.5	3.4	5.7	2.9	6.0	4.8	2.8	6.3	5.3
Science and engineering (number)	36,741	20,930	15,809	22,312	14,223	1,993	59	2,400	1,339	15,389	798	213	121
Teaching assistantships	20.2	21.0	19.2	17.9	23.9	16.8	D	15.2	11.2	19.1	16.3	D	22.3
Research assistantships or traineeships ^b	40.8	45.5	34.7	33.8	51.7	25.0	D	39.8	17.3	35.9	29.2	D	27.3
Fellowships, scholarships, or dissertation grants	23.9	21.5	27.1	28.5	16.9	37.9	37.3	31.5	32.0	26.1	35.8	27.7	23.1
Own resources	11.1	7.8	15.5	16.2	3.2	17.6	27.1	10.9	35.9	15.0	16.4	15.5	21.5
Employer or other sources	3.9	4.2	3.5	3.6	4.4	2.7	6.8	2.6	3.7	3.9	2.3	6.1	5.8
Agricultural sciences and natural resources (number)	1,072	527	545	634	436	39	D	39	25	502	11	D	6
Teaching assistantships	12.0	9.9	14.1	11.8	12.2	D	0.0	D	D	11.8	D	12.5	33.3
Research assistantships or traineeships ^b	52.0	54.5	49.5	49.4	56.0	46.2	0.0	53.8	28.0	51.4	45.5	50.0	0.0
Fellowships, scholarships, or dissertation grants	20.0	18.6	21.3	20.2	19.7	25.6	D	D	28.0	18.9	D	D	16.7
Own resources	9.4	8.3	10.5	13.9	2.8	D	0.0	15.4	D	12.7	D	0.0	50.0
Employer or other sources	6.6	8.7	4.6	4.7	9.4	5.1	25.0	0.0	4.0	5.2	0.0	0.0	0.0

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Biological and biomedical sciences (number)	7,515	3,581	3,934	5,542	1,940	529	12	659	252	3,820	204	41	25
Teaching assistantships	13.8	15.0	12.8	12.8	17.0	10.8	D	7.9	D	14.3	9.3	9.8	16.0
Research assistantships or traineeships ^b	38.3	38.8	37.9	35.3	47.0	29.3	D	35.7	D	37.2	28.4	29.3	28.0
Fellowships, scholarships, or dissertation grants	37.4	36.0	38.7	40.9	27.6	52.0	41.7	44.9	54.0	37.2	52.9	43.9	36.0
Own resources	7.2	6.8	7.5	8.8	2.7	6.6	D	9.1	D	8.9	6.9	9.8	12.0
Employer or other sources	3.2	3.4	3.1	2.3	5.8	1.3	0.0	2.4	2.0	2.4	2.5	7.3	8.0
Computer and information sciences (number)	1,913	1,458	455	661	1,233	30	0	131	35	425	26	11	3
Teaching assistantships	17.1	15.7	21.8	13.5	19.2	D	0.0	17.6	D	13.4	D	18.2	0.0
Research assistantships or traineeships ^b	57.9	60.8	48.4	45.4	64.6	26.7	0.0	45.8	25.7	48.0	46.2	45.5	66.7
Fellowships, scholarships, or dissertation grants	13.8	12.3	18.5	19.7	10.7	33.3	0.0	21.4	25.7	17.9	19.2	18.2	0.0
Own resources	6.4	5.8	8.1	14.5	1.9	D	0.0	9.9	D	13.2	D	9.1	0.0
Employer or other sources	4.8	5.3	3.3	7.0	3.6	0.0	0.0	5.3	8.6	7.5	7.7	9.1	33.3
Engineering (number)	8,511	6,312	2,199	3,543	4,912	294	D	551	148	2,382	D	32	23
Teaching assistantships	11.9	12.0	11.7	8.5	14.4	9.9	0.0	8.3	12.8	8.3	4.6	6.3	8.7
Research assistantships or traineeships ^b	59.6	61.0	55.8	49.1	67.3	35.4	D	55.7	25.0	51.3	D	53.1	34.8
Fellowships, scholarships, or dissertation grants	18.4	16.4	24.1	28.9	10.9	40.1	0.0	26.0	41.9	26.7	46.8	18.8	26.1
Own resources	4.9	4.9	4.8	7.6	2.9	9.9	D	6.7	14.9	7.0	D	6.3	17.4
Employer or other sources	5.1	5.7	3.5	6.0	4.6	4.8	0.0	3.3	5.4	6.7	4.6	15.6	13.0

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(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)	954	534	420	633	318	42	D	30	11	508	33	D	2
Teaching assistantships	21.0	19.5	22.9	19.4	23.9	21.4	0.0	20.0	45.5	19.1	15.2	0.0	50.0
Research assistantships or traineeships ^b	46.8	49.1	43.8	42.7	55.0	19.0	D	50.0	D	44.5	D	D	0.0
Fellowships, scholarships, or dissertation grants	24.4	22.7	26.7	28.4	16.7	D	0.0	D	D	27.0	39.4	0.0	0.0
Own resources	6.0	6.2	5.7	8.1	1.6	D	D	D	0.0	8.1	D	0.0	50.0
Employer or other sources	1.9	2.6	1.0	1.4	2.8	4.8	0.0	0.0	0.0	1.4	0.0	0.0	0.0
Health sciences (number)	2,250	699	1,551	1,753	478	129	9	174	242	1,123	52	11	13
Teaching assistantships	11.0	13.4	9.9	8.3	21.1	10.9	D	9.2	D	8.5	D	27.3	0.0
Research assistantships or traineeships ^b	22.9	29.5	19.9	18.8	37.9	16.3	0.0	25.3	9.5	20.1	19.2	9.1	38.5
Fellowships, scholarships, or dissertation grants	22.0	24.0	21.1	22.1	21.5	27.9	D	31.0	D	21.5	25.0	27.3	7.7
Own resources	35.2	24.0	40.3	42.8	7.5	40.3	D	27.6	64.0	40.9	D	27.3	46.2
Employer or other sources	8.9	9.0	8.8	8.0	11.9	4.7	11.1	6.9	6.6	9.0	3.8	9.1	7.7
Mathematics and statistics (number)	1,732	1,246	486	801	922	61	0	87	28	574	31	11	9
Teaching assistantships	63.4	65.2	58.8	61.3	65.3	52.5	0.0	60.9	42.9	63.6	51.6	45.5	88.9
Research assistantships or traineeships ^b	14.7	14.7	14.8	12.9	16.2	13.1	0.0	13.8	D	12.7	D	18.2	0.0
Fellowships, scholarships, or dissertation grants	16.1	14.2	20.8	19.4	13.2	D	0.0	D	32.1	17.1	22.6	27.3	0.0
Own resources	4.0	4.4	3.1	5.1	3.1	D	0.0	D	D	5.1	D	9.1	11.1
Employer or other sources	1.8	1.5	2.5	1.4	2.2	1.6	0.0	1.1	0.0	1.6	0.0	0.0	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: 2021

(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)	1,143	683	460	622	517	61	D	66	42	415	26	D	2
Teaching assistantships	20.8	21.2	20.2	18.5	23.6	21.3	0.0	D	14.3	19.8	D	25.0	0.0
Research assistantships or traineeships ^b	41.8	46.1	35.4	33.6	51.5	24.6	0.0	51.5	19.0	33.0	46.2	25.0	50.0
Fellowships, scholarships, or dissertation grants	21.3	18.7	25.2	24.4	17.8	31.1	D	D	26.2	22.9	30.8	25.0	50.0
Own resources	11.7	10.0	14.3	18.3	3.9	16.4	0.0	7.6	35.7	19.3	D	D	0.0
Employer or other sources	4.3	4.0	4.8	5.1	3.3	6.6	0.0	6.1	4.8	5.1	0.0	12.5	0.0
Physical sciences (number)	4,361	2,937	1,423	2,564	1,776	204	D	250	71	1,908	D	22	12
Teaching assistantships	24.9	24.9	24.9	22.5	28.4	25.0	D	20.8	D	22.7	21.5	18.2	8.3
Research assistantships or traineeships ^b	53.5	56.0	48.3	49.8	58.7	35.3	D	57.6	D	51.4	46.2	40.9	66.7
Fellowships, scholarships, or dissertation grants	17.6	15.3	22.3	22.7	10.4	33.8	D	18.8	45.1	20.9	D	27.3	8.3
Own resources	2.6	2.3	3.2	3.8	0.9	4.9	0.0	2.4	D	3.7	D	9.1	16.7
Employer or other sources	1.4	1.5	1.3	1.2	1.6	1.0	0.0	0.4	1.4	1.4	1.1	4.5	0.0
Psychology (number)	3,013	828	2,185	2,726	271	305	7	172	215	1,864	118	32	13
Teaching assistantships	23.1	26.4	21.8	22.3	31.0	15.1	D	27.3	7.0	25.1	19.5	D	30.8
Research assistantships or traineeships ^b	23.9	22.5	24.4	23.4	28.8	18.4	0.0	24.4	13.0	25.8	22.0	18.8	0.0
Fellowships, scholarships, or dissertation grants	17.6	18.1	17.3	17.1	23.2	20.7	D	20.3	22.8	15.1	20.3	D	23.1
Own resources	33.5	30.3	34.6	35.4	12.5	44.9	D	26.7	55.3	31.9	37.3	D	46.2
Employer or other sources	2.1	2.7	1.8	1.8	4.4	1.0	0.0	1.2	1.9	2.1	0.8	0.0	0.0
Social sciences (number)	4,277	2,125	2,151	2,833	1,420	299	15	241	270	1,868	95	32	13

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Teaching assistantships	31.8	33.5	30.1	27.1	40.9	24.4	D	23.7	D	29.1	33.7	43.8	38.5
Research assistantships or traineeships ^b	14.8	14.7	14.9	14.7	14.9	11.4	D	17.4	D	15.6	10.5	9.4	15.4
Fellowships, scholarships, or dissertation grants	32.3	32.7	31.8	31.0	34.8	38.8	D	D	28.1	28.6	31.6	28.1	46.2
Own resources	17.2	14.7	19.8	23.1	5.5	21.1	D	D	41.9	22.1	22.1	15.6	0.0
Employer or other sources	4.0	4.5	3.4	4.1	3.9	4.3	13.3	0.8	3.3	4.6	2.1	3.1	0.0
Non-science and engineering (number)	9,315	3,977	5,338	7,082	2,176	627	28	448	863	4,755	238	73	50
Teaching assistantships	25.3	26.6	24.4	24.6	27.6	23.8	D	26.3	9.7	27.2	27.7	D	26.0
Research assistantships or traineeships ^b	10.6	10.3	10.8	8.0	18.7	6.4	D	10.0	6.8	8.5	6.3	D	6.0
Fellowships, scholarships, or dissertation grants	25.4	27.7	23.7	22.3	35.7	23.0	35.7	32.6	16.3	22.0	26.5	20.5	26.0
Own resources	31.6	28.3	34.1	37.5	12.3	41.1	46.4	26.8	57.4	34.5	34.9	42.5	38.0
Employer or other sources	7.1	7.1	7.0	7.5	5.7	5.7	3.6	4.2	9.7	7.9	4.6	6.8	4.0
Business (number)	1,132	627	505	528	588	28	D	74	102	298	18	D	4
Teaching assistantships	16.3	14.4	18.6	10.2	21.6	D	0.0	16.2	D	10.7	D	D	0.0
Research assistantships or traineeships ^b	20.8	D	D	15.9	25.3	D	0.0	12.2	9.8	19.5	D	33.3	0.0
Fellowships, scholarships, or dissertation grants	30.6	32.2	28.5	22.2	37.9	25.0	0.0	44.6	4.9	21.1	38.9	0.0	50.0
Own resources	26.9	24.4	30.1	43.6	12.1	46.4	D	23.0	73.5	39.3	D	33.3	25.0
Employer or other sources	5.4	D	D	8.1	3.1	D	0.0	4.1	D	9.4	0.0	0.0	25.0
Education (number)	3,156	929	2,227	2,697	443	259	16	151	445	1,697	88	23	18
Teaching assistantships	11.5	11.9	11.3	10.2	18.7	7.3	0.0	12.6	5.8	11.7	11.4	13.0	0.0
Research assistantships or traineeships ^b	15.0	15.4	14.8	12.5	30.2	10.0	D	17.9	D	13.8	11.4	4.3	5.6

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Fellowships, scholarships, or dissertation grants	12.7	11.4	13.3	11.5	21.0	14.7	D	18.5	D	9.8	14.8	8.7	16.7
Own resources	48.1	47.1	48.5	52.9	18.3	58.3	50.0	42.4	61.1	50.6	52.3	60.9	72.2
Employer or other sources	12.7	14.1	12.1	12.9	11.7	9.7	6.3	8.6	13.0	14.1	10.2	13.0	5.6
Humanities (number)	2,668	1,403	1,265	2,150	510	200	D	108	94	1,630	75	D	13
Teaching assistantships	40.7	37.9	43.7	41.7	36.5	44.5	D	37.0	D	42.5	44.0	D	46.2
Research assistantships or traineeships ^b	1.2	1.1	1.4	1.1	1.8	D	0.0	D	D	1.0	0.0	D	0.0
Fellowships, scholarships, or dissertation grants	36.5	37.0	36.0	33.3	50.4	30.5	D	D	40.4	32.2	37.3	40.7	38.5
Own resources	18.6	20.2	16.7	21.3	6.9	22.0	0.0	18.5	27.7	21.3	17.3	22.2	15.4
Employer or other sources	3.0	3.8	2.1	2.6	4.5	D	0.0	1.9	D	2.9	1.3	0.0	0.0
Visual and performing arts (number)	670	301	369	530	135	42	D	31	16	410	22	D	4
Teaching assistantships	36.4	39.9	33.6	37.4	32.6	D	0.0	54.8	D	37.6	36.4	D	75.0
Research assistantships or traineeships ^b	1.9	D	D	1.3	4.4	D	0.0	D	0.0	1.2	0.0	0.0	0.0
Fellowships, scholarships, or dissertation grants	39.3	36.9	41.2	36.6	50.4	38.1	0.0	D	D	35.9	D	33.3	25.0
Own resources	21.0	18.6	23.0	23.6	10.4	26.2	D	D	37.5	23.9	D	33.3	0.0
Employer or other sources	1.3	D	D	1.1	2.2	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0
Other (number) ^c	1,689	717	972	1,177	500	98	6	84	206	720	35	17	11
Teaching assistantships	28.6	28.6	28.6	27.2	32.0	23.5	16.7	35.7	14.6	29.9	34.3	29.4	36.4
Research assistantships or traineeships ^b	13.6	13.5	13.7	10.1	21.6	8.2	0.0	8.3	5.3	12.4	5.7	0.0	18.2
Fellowships, scholarships, or dissertation grants	22.4	22.7	22.2	20.5	27.2	22.4	50.0	36.9	17.0	19.9	11.4	5.9	18.2
Own resources	28.9	27.1	30.2	35.5	13.4	39.8	33.3	17.9	56.3	30.3	45.7	52.9	27.3

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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	
Employer or other sources	6.5	8.1	5.2	6.7	5.8	6.1	0.0	1.2	6.8	7.6	2.9	11.8	0.0

D = suppressed to avoid disclosure of confidential information.

^a Includes doctorate recipients who did not report citizenship or sex.^b Includes research assistantships, other assistantships, traineeships, and internships or clinical residencies.^c Includes other non-science and engineering fields not shown separately.**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 the new broad, major, and detailed fields were used in tables reporting only the most recent data year. Therefore, the field of doctorate data in 2021 may not be comparable to prior years; see the "Technical Notes" for more information, table A-4 for a summary of SED-CIP codes in the new SED field taxonomy, table A-5 for a full list of SED-CIP codes in the new field taxonomy, and table A-6 for the SED-CIP code crosswalk to the historical field taxonomy.

Source(s):

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