

Table 4-2

Research doctorate recipients' sources of financial support, by broad field of doctorate and sex: 2022

(Percent)

Sex and financial resource	All fields	Science and engineering														Non-science and engineering					
		Total	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Engineering	Geosciences, atmospheric, and ocean sciences	Health sciences	Mathematics and statistics	Multidisciplinary/ interdisciplinary sciences	Physical sciences	Psychology	Social sciences	Total	Business	Education	Humanities	Visual and performing arts	Other non-science and engineering		
All doctorate recipients reporting source of support (number)	51,206	41,116	1,172	8,606	1,951	9,589	1,070	2,450	1,924	1,567	4,917	3,277	4,593	10,090	1,207	3,340	2,955	745	1,843		
Fellowship or scholarship	66.6	66.4	68.9	73.0	53.2	61.1	74.5	59.3	62.5	64.0	63.0	63.2	80.4	67.6	69.3	49.2	84.4	88.6	64.8		
Dissertation grant	18.0	15.7	18.8	14.7	7.1	8.7	17.2	21.3	8.1	13.1	8.9	21.4	39.5	27.3	17.3	14.7	42.1	44.3	25.9		
Assistantship																					
Teaching	68.8	69.8	51.5	55.7	77.9	66.4	78.6	45.8	93.1	72.9	88.8	70.1	83.6	64.7	68.1	38.4	85.7	90.1	66.4		
Research	68.0	73.9	81.1	65.8	85.0	85.1	87.9	51.5	61.8	80.3	89.4	59.2	64.6	43.8	64.8	36.7	38.4	35.2	55.1		
Other	8.6	7.1	8.8	4.3	4.7	5.2	5.7	7.9	5.5	6.4	3.6	20.3	11.9	14.6	7.2	16.1	16.1	19.5	12.5		
Traineeship	4.1	4.8	2.5	12.0	0.8	2.4	2.5	6.7	1.4	2.0	2.3	6.6	2.1	0.9	D	0.9	1.3	D	1.0		
Internship or clinical residency	11.4	13.2	5.1	4.3	38.4	16.9	9.8	6.0	17.2	21.2	5.5	36.7	5.7	4.1	3.6	3.4	3.7	7.2	4.8		
Loan (any source)	20.7	16.8	17.9	14.0	7.5	9.4	10.4	35.2	7.5	13.2	8.8	44.8	26.6	36.8	21.8	47.0	31.7	35.6	36.9		
Personal sources																					
Savings	51.1	48.2	51.5	47.4	43.9	41.8	44.6	61.1	42.8	47.1	36.7	67.4	59.3	63.0	62.7	65.6	59.7	64.6	63.2		
Other earnings during graduate school	29.2	24.1	26.2	20.8	16.8	15.7	20.1	44.4	17.4	22.8	13.5	45.9	40.0	49.9	25.8	57.5	52.3	57.0	45.0		
Spouse's, partner's, or family's earnings or savings	38.6	36.4	40.0	37.1	30.6	31.2	31.1	43.4	31.4	34.5	27.6	55.4	43.8	47.2	45.3	45.0	49.3	52.3	47.0		
Employer reimbursement or assistance	10.0	8.2	10.2	7.5	9.4	7.0	8.8	20.6	6.1	8.7	4.8	8.5	8.5	17.2	12.6	29.4	9.4	5.6	15.5		
Foreign (non-U.S.) support	5.5	5.4	8.4	4.0	7.1	6.8	5.4	5.4	5.5	7.0	3.1	2.5	7.2	6.0	7.2	3.9	6.2	9.7	7.2		
Other	1.0	0.9	0.9	0.9	0.7	0.6	0.4	1.8	0.6	0.6	1.8	1.8	1.3	1.5	1.7	1.6	1.4	1.1	1.5		
Male doctorate recipients reporting source of support (number)	27,170	23,011	569	3,992	1,484	6,981	574	757	1,367	998	3,304	817	2,168	4,159	677	980	1,462	324	716		
Fellowship or scholarship	64.5	63.5	65.0	70.5	51.3	58.5	70.6	58.1	62.9	60.9	61.2	62.8	79.6	70.1	69.1	48.8	83.7	86.4	65.2		
Dissertation grant	14.4	12.3	16.2	12.9	6.2	7.9	15.0	14.8	8.3	9.4	8.4	18.8	34.1	26.1	15.7	13.9	38.2	37.0	23.2		
Assistantship																					
Teaching	70.6	71.2	48.9	55.5	77.4	65.4	78.0	49.0	93.6	72.5	88.5	73.9	84.5	67.3	68.1	38.3	82.5	88.0	66.2		
Research	71.7	77.0	84.9	66.0	85.0	84.9	85.4	55.6	60.4	82.0	89.2	61.1	64.7	42.8	63.4	35.8	35.4	30.2	53.6		
Other	7.2	6.1	9.8	4.1	4.2	5.4	4.7	7.8	5.6	5.8	3.6	20.2	11.3	12.9	7.8	15.4	13.5	16.0	11.6		
Traineeship	3.3	3.7	2.1	10.9	0.7	2.0	2.4	7.0	1.1	1.2	1.8	7.2	2.4	0.8	D	D	1.4	0.0	0.8		
Internship or clinical residency	11.8	13.2	3.9	3.8	38.5	17.0	9.2	8.1	15.8	23.6	5.4	30.0	5.6	3.8	3.8	3.1	3.4	4.6	5.6		
Loan (any source)	16.8	13.6	17.2	14.5	7.4	9.8	8.5	28.5	8.6	11.2	9.0	44.4	23.9	34.4	19.4	46.2	33.0	38.0	33.4		
Personal sources																					
Savings	47.5	44.9	51.3	45.6	44.0	41.6	43.6	56.7	42.5	44.8	35.3	63.9	57.7	62.3	63.2	66.8	59.2	62.3	61.6		
Other earnings during graduate school	24.4	20.3	27.2	19.9	16.5	15.5	16.7	35.9	17.8	20.6	12.8	45.4	36.1	47.0	24.2	56.8	51.8	57.1	40.8		
Spouse's, partner's, or family's earnings or savings	32.9	31.0	37.3	32.2	28.2	29.2	26.8	32.1	28.8	29.5	26.2	45.7	39.2	43.9	40.0	38.6	48.4	48.8	43.3		
Employer reimbursement or assistance	9.3	8.0	9.8	8.0	9.4	7.7	9.9	15.9	5.9	9.7	5.2	8.8	9.0	16.3	13.1	30.1	10.7	7.7	15.4		
Foreign (non-U.S.) support	6.1	5.9	9.3	4.4	6.8	7.4	5.4	6.5	4.7	6.5	3.2	2.3	8.5	7.2	7.4	5.4	7.1	9.0	8.7		
Other	1.0	0.8	0.7	0.8	0.7	0.7	0.7	1.7	0.6	0.5	0.6	2.2	1.3	1.9	2.2	2.1	2.0	0.9	1.8		
Female doctorate recipients reporting source of support (number)	24,031	18,104	603	4,614	467	2,608	496	1,693	557	569	1,613	2,460	2,424	5,927	530	2,360	1,491	421	1,125		

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		Total	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Engineering	Geosciences, atmospheric, and ocean sciences	Health sciences	Mathematics and statistics	Multidisciplinary/ interdisciplinary sciences	Physical sciences	Psychology	Social sciences	Total	Business	Education	Humanities	Visual and performing arts	Other non-science and engineering
Fellowship or scholarship	69.1	70.1	72.5	75.1	59.3	67.8	79.0	59.8	61.4	69.4	66.8	63.4	81.2	65.9	69.4	49.3	85.0	90.3	64.4
Dissertation grant	22.1	20.1	21.2	16.2	10.1	10.7	19.8	24.2	7.5	19.5	10.0	22.2	44.3	28.1	19.4	15.0	46.0	49.9	27.7
Assistantship																			
Teaching	66.7	68.0	54.1	55.9	79.7	69.2	79.2	44.3	91.9	73.5	89.6	68.9	82.9	62.9	68.1	38.4	88.9	91.7	66.6
Research	63.8	70.0	77.6	65.7	85.0	85.7	90.7	49.7	65.4	77.3	89.8	58.5	64.6	44.5	66.6	37.1	41.4	39.0	56.0
Other	10.2	8.3	7.8	4.6	6.0	4.7	6.9	8.0	5.4	7.4	3.7	20.3	12.4	15.8	6.4	16.4	18.6	22.1	13.2
Traineeship	4.9	6.2	2.8	12.9	1.1	3.5	2.6	6.6	2.2	3.5	3.3	6.3	1.9	1.0	D	D	1.0	D	1.2
Internship or clinical residency	11.0	13.3	6.3	4.8	37.9	16.6	10.5	5.1	20.5	16.9	5.5	39.0	5.7	4.2	3.2	3.6	4.0	9.3	4.4
Loan (any source)	25.1	20.8	18.6	13.6	7.7	8.2	12.5	38.2	4.8	16.7	8.4	44.9	28.9	38.5	24.9	47.3	30.3	33.7	39.0
Personal sources																			
Savings	55.2	52.4	51.6	48.9	43.5	42.2	45.8	63.1	43.6	51.1	39.4	68.5	60.6	63.5	62.1	65.1	60.1	66.3	64.2
Other earnings during graduate school	34.7	29.0	25.2	21.5	17.8	16.1	24.0	48.3	16.2	26.5	14.9	46.1	43.4	51.9	27.9	57.8	52.7	57.0	47.6
Spouse's, partner's, or family's earnings or savings	44.9	43.4	42.6	41.4	38.3	36.7	36.1	48.5	37.7	43.2	30.7	58.7	47.8	49.5	52.1	47.7	50.0	55.1	49.4
Employer reimbursement or assistance	10.8	8.5	10.6	7.1	9.2	5.3	7.5	22.7	6.8	7.0	3.9	8.5	8.0	17.9	11.9	29.1	8.1	4.0	15.6
Foreign (non-U.S.) support	4.8	4.7	7.6	3.7	7.9	5.3	5.4	5.0	7.5	7.9	2.9	2.6	5.9	5.2	7.0	3.3	5.2	10.2	6.3
Other	1.1	1.1	1.0	1.0	0.9	0.5	0.0	1.8	0.5	0.9	0.8	1.7	1.2	1.2	1.1	1.4	0.8	1.2	1.3

D = suppressed to avoid disclosure of confidential information.

Note(s):

In this table, a doctorate recipient counts once in each source category from which they received support. Doctorate recipients may indicate multiple sources of support; thus, percentages sum to more than 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://ncses.nsf.gov/pubs/ncses23200>).

Source(s):

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