

TABLE 7-25

Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by sex and field: 2013–17

(Percent distribution)

Primary source of support and sex	All S&E	Science									Engineering
		All science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
All recipients (number) ^a	115,134	94,784	3,560	30,523	4,140	3,243	4,589	14,051	15,972	18,706	20,350
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	12.3	13.6	11.7	5.7	14.0	5.6	5.5	3.1	31.7	22.7	6.2
Loans	5.8	6.7	3.9	1.7	4.3	1.7	1.5	0.9	20.4	10.5	1.5
Savings	1.1	1.1	1.4	0.6	2.3	0.7	0.7	0.3	1.5	1.9	1.1
Other earnings in graduate school	2.7	2.8	4.0	1.4	5.9	2.3	1.6	0.7	3.3	5.7	2.4
Other family earnings or savings	2.8	3.1	2.3	2.1	1.5	0.9	1.7	1.2	6.4	4.7	1.3
Teaching assistantship	16.9	19.4	10.6	11.1	8.7	15.5	53.4	20.6	19.5	28.2	5.7
Research assistantship, traineeship, or internship	29.6	26.8	39.0	28.0	41.3	39.3	13.0	45.9	19.2	12.6	43.0
Research assistantship	27.0	23.9	37.5	23.2	40.1	38.6	12.0	44.9	14.7	11.3	41.6
Traineeship, internship or clinical residency, other assistantship	2.6	2.9	1.5	4.8	1.3	0.7	1.0	0.9	4.5	1.2	1.3
Fellowship, scholarship, or grant	31.5	31.5	25.4	48.6	22.2	32.6	19.5	23.8	17.6	27.5	31.6
Fellowship or scholarship	24.3	24.2	19.2	32.7	18.1	25.1	17.7	17.8	15.4	26.6	24.8
Grant ^b	7.2	7.3	6.2	15.9	4.2	7.5	1.8	6.0	2.1	0.8	6.8
Employer reimbursement or assistance	3.0	2.3	5.8	1.8	7.0	2.4	2.0	1.2	1.2	3.2	6.2
Other, foreign, or unknown source of support	6.6	6.4	7.5	4.9	6.7	4.6	6.7	5.4	10.8	5.8	7.4
Female (number)	52,581	47,440	1,758	16,494	871	1,451	1,248	4,339	11,465	9,814	5,141
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	15.3	16.4	11.3	6.2	17.5	4.3	6.9	2.8	33.1	23.9	4.8
Loans	7.8	8.5	3.7	1.8	6.4	1.5	1.7	0.8	21.1	11.5	1.0
Savings	1.0	1.0	1.3	0.5	2.1	0.6	0.7	0.2	1.5	1.5	0.7
Other earnings in graduate school	2.6	2.7	3.8	1.3	6.2	1.6	1.5	0.5	3.2	5.1	1.5
Other family earnings or savings	4.0	4.2	2.5	2.5	2.8	0.7	3.0	1.3	7.3	6.0	1.7
Teaching assistantship	17.1	18.4	12.8	11.1	10.3	16.6	51.6	21.8	18.1	27.3	5.3
Research assistantship, traineeship, or internship	25.6	24.2	36.4	27.7	31.8	35.7	13.1	41.4	19.8	12.7	38.2
Research assistantship	22.3	20.8	34.5	22.7	30.7	35.2	11.7	40.2	14.9	11.4	36.3
Traineeship, internship or clinical residency, other assistantship	3.3	3.4	1.9	5.0	1.1	0.5	1.4	1.2	4.9	1.3	2.0
Fellowship, scholarship, or grant	33.4	32.6	27.8	48.7	27.8	37.6	19.2	28.2	17.2	27.6	41.4
Fellowship or scholarship	26.2	25.4	21.6	33.1	24.3	30.2	17.5	22.5	15.2	26.6	34.1
Grant ^b	7.2	7.2	6.2	15.6	3.4	7.4	1.8	5.7	2.1	1.0	7.3
Employer reimbursement or assistance	2.1	1.9	4.6	1.8	5.4	1.7	2.3	0.9	0.9	2.9	3.3

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Primary source of support and sex	All S&E	Science									Engineering
		All science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	
Other, foreign, or unknown source of support	6.5	6.5	7.2	4.5	7.2	4.1	6.8	5.0	10.8	5.5	6.9
Male (number)	62,551	47,342	1,801	14,029	3,269	1,792	3,341	9,712	4,507	8,891	15,209
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	9.9	10.9	12.0	5.2	13.1	6.6	5.0	3.3	28.0	21.4	6.7
Loans	4.0	4.8	4.1	1.6	3.7	1.8	1.5	1.0	18.7	9.4	1.7
Savings	1.2	1.1	1.6	0.6	2.3	0.9	0.7	0.3	1.5	2.4	1.2
Other earnings in graduate school	2.8	2.9	4.2	1.4	5.8	2.9	1.6	0.8	3.6	6.3	2.7
Other family earnings or savings	1.8	2.0	2.2	1.6	1.2	1.0	1.2	1.2	4.2	3.3	1.1
Teaching assistantship	16.8	20.3	8.4	11.1	8.3	14.6	54.0	20.0	23.2	29.2	5.8
Research assistantship, traineeship, or internship	33.0	29.3	41.6	28.3	43.9	42.3	12.9	47.9	17.6	12.4	44.6
Research assistantship	31.0	27.0	40.5	23.7	42.6	41.4	12.1	47.1	14.0	11.3	43.5
Traineeship, internship or clinical residency, other assistantship	2.0	2.3	1.1	4.6	1.3	0.9	0.8	0.8	3.6	1.1	1.1
Fellowship, scholarship, or grant	29.9	30.5	23.1	48.4	20.8	28.6	19.5	21.9	18.4	27.3	28.2
Fellowship or scholarship	22.8	23.1	16.8	32.2	16.4	21.0	17.8	15.8	16.1	26.6	21.7
Grant ^b	7.2	7.4	6.3	16.2	4.3	7.6	1.8	6.1	2.3	0.7	6.6
Employer reimbursement or assistance	3.7	2.6	7.0	1.7	7.4	3.0	1.9	1.3	1.9	3.5	7.1
Other, foreign, or unknown source of support	6.6	6.3	7.8	5.3	6.6	4.9	6.7	5.6	10.8	6.2	7.6

S&E = science and engineering.

^a Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.^b In 2017, survey response option was changed from "grant" to "dissertation grant."**Note(s)**

American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. The greatest differences are in psychology, education, and medical or other health sciences.

Source(s)

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