

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005

(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
All recipients (number)	79,331	68,065	2,683	21,012	2,210	2,175	2,538	9,667	14,304	13,476	11,266
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/family funds	19.7	21.0	19.0	8.5	21.4	10.0	9.3	5.6	44.1	31.4	11.6
Loans	6.6	7.4	3.7	1.8	3.3	1.5	1.2	1.1	21.0	9.8	1.6
Savings	1.7	1.7	2.0	0.6	3.3	1.5	0.7	0.4	2.8	3.0	1.8
Other earnings in graduate school	5.7	5.7	7.5	2.3	10.1	4.5	3.5	1.4	8.3	10.9	5.4
Other family earnings or savings	5.7	6.2	5.9	3.9	4.8	2.6	4.0	2.7	11.9	7.6	2.8
Teaching assistantship	14.7	16.2	7.5	9.7	8.0	13.2	51.1	19.1	14.6	22.8	6.0
Research assistantship, traineeship, and internship	28.0	25.8	41.0	28.8	36.0	38.3	11.0	48.1	16.7	10.7	41.5
Research assistantship	25.2	22.6	40.1	23.1	34.9	37.1	10.0	46.8	12.8	9.6	40.6
Traineeship	2.2	2.5	0.4	5.3	0.6	0.8	0.7	1.1	2.1	0.8	0.6
Internship or residency	0.3	0.3	0.1	0.2	0.3	0.2	0.1	0.1	0.8	0.1	0.2
Other assistantship	0.3	0.3	0.4	0.1	0.2	0.1	0.2	0.1	1.1	0.2	0.1
Fellowship/scholarship or Grant/stipend	29.0	29.4	20.7	46.7	19.3	30.8	21.9	21.2	15.6	27.3	26.8
Fellowship/scholarship	22.6	22.6	15.9	32.1	16.0	24.9	19.9	16.8	13.0	25.0	22.6
Grant/stipend	6.4	6.7	4.8	14.7	3.3	5.9	2.1	4.3	2.6	2.3	4.2
Employer reimbursement or assistance	3.3	2.3	6.4	1.7	8.5	3.7	3.0	1.7	1.3	2.7	8.9
Foreign	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.3	0.3
Other	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.0	0.2	0.1	0.1
Not reported	5.0	5.0	5.0	4.3	6.4	3.5	3.5	4.3	7.4	4.6	4.8
White (number)	60,963	53,021	2,268	15,961	1,568	1,870	2,017	7,675	11,321	10,341	7,942
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/family funds	20.7	21.9	19.8	9.2	22.1	10.2	9.7	5.9	45.9	32.2	12.3
Loans	6.6	7.4	3.5	1.9	3.3	1.3	1.0	1.0	20.8	9.6	1.6
Savings	1.7	1.8	1.9	0.6	3.2	1.7	0.7	0.4	3.1	3.1	1.6
Other earnings in graduate school	6.0	6.0	8.1	2.4	10.9	4.6	3.7	1.4	8.9	11.3	6.1
Other family earnings or savings	6.3	6.8	6.3	4.3	4.7	2.6	4.3	3.1	13.1	8.1	3.0
Teaching assistantship	15.7	17.2	7.7	10.7	7.9	13.7	52.4	19.4	15.9	24.3	5.9
Research assistantship, traineeship, and internship	28.5	26.6	41.2	29.5	36.1	38.8	11.2	49.1	17.5	11.4	41.0
Research assistantship	25.6	23.4	40.3	23.9	34.9	37.6	10.1	47.8	13.5	10.2	40.1
Traineeship	2.2	2.5	0.4	5.3	0.6	0.9	0.8	1.1	2.2	0.8	0.7
Internship or residency	0.3	0.3	0.0	0.3	0.3	0.2	0.1	0.2	0.8	0.1	0.2
Other assistantship	0.3	0.4	0.4	0.1	0.3	0.2	0.1	0.1	1.0	0.2	0.1
Fellowship/scholarship or Grant/stipend	27.3	27.4	19.7	44.9	18.8	30.3	21.1	20.2	12.9	25.1	26.8
Fellowship/scholarship	20.9	20.7	14.6	30.2	15.2	24.0	19.2	15.8	10.4	22.7	22.4
Grant/stipend	6.4	6.7	5.1	14.7	3.6	6.3	1.9	4.5	2.5	2.4	4.4
Employer reimbursement or assistance	3.4	2.5	6.6	1.9	9.2	3.8	2.7	1.6	1.3	3.0	9.5
Foreign	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.2
Other	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.0	0.2	0.1	0.1
Not reported	4.3	4.3	4.7	3.7	5.7	2.8	2.8	3.6	6.3	3.8	4.2

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2001–2005

(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Asian (number)	7,903	5,962	133	2,664	393	102	249	937	636	848	1,941
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/family funds	10.7	11.3	9.8	5.2	15.8	8.8	8.8	2.9	35.4	21.0	8.8
Loans	2.5	3.0	0.0	0.9	1.0	0.0	0.4	0.3	17.3	4.6	1.0
Savings	1.5	1.3	3.8	0.6	3.3	0.0	1.2	0.5	1.7	2.9	2.2
Other earnings in graduate school	2.9	2.9	2.3	1.3	6.1	5.9	3.2	1.2	5.2	6.4	3.0
Other family earnings or savings	3.7	4.1	3.8	2.4	5.3	2.9	4.0	0.9	11.2	7.1	2.5
Teaching assistantship	12.1	13.9	6.0	6.3	10.2	10.8	49.8	18.7	15.3	24.2	6.6
Research assistantship, traineeship, and internship	37.9	32.8	60.2	32.6	46.3	51.0	14.5	53.4	18.4	13.8	53.7
Research assistantship	34.7	28.8	57.9	26.1	45.3	51.0	13.7	52.4	13.5	12.5	52.9
Traineeship	2.6	3.3	0.0	6.2	0.5	0.0	0.4	0.7	2.5	0.9	0.5
Internship or residency	0.3	0.3	2.3	0.2	0.3	0.0	0.0	0.2	0.9	0.1	0.3
Other assistantship	0.2	0.3	0.0	0.2	0.3	0.0	0.4	0.0	1.4	0.2	0.1
Fellowship/scholarship or Grant/stipend	30.8	34.6	16.5	49.8	16.5	22.5	18.1	18.0	20.8	33.1	19.2
Fellowship/scholarship	23.5	26.1	12.8	34.9	13.0	18.6	14.1	14.4	17.3	30.7	15.6
Grant/stipend	7.3	8.5	3.8	14.9	3.6	3.9	4.0	3.6	3.5	2.5	3.6
Employer reimbursement or assistance	3.0	1.9	2.3	1.4	6.6	2.0	3.6	1.8	0.8	1.5	6.5
Foreign	0.3	0.3	0.8	0.0	0.3	0.0	0.0	0.2	0.3	1.5	0.4
Other	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Not reported	5.1	5.2	4.5	4.5	4.3	4.9	5.2	5.0	9.1	4.8	4.8
Black (number)	3,508	3,060	85	678	81	36	81	292	881	926	448
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/family funds	23.2	24.9	15.3	8.4	37.0	8.3	8.6	6.8	35.6	34.4	11.2
Loans	13.1	14.5	8.2	4.3	17.3	5.6	6.2	3.8	24.9	16.8	4.0
Savings	1.8	1.6	1.2	0.3	6.2	0.0	0.0	0.3	1.7	2.7	2.9
Other earnings in graduate school	5.7	6.1	4.7	1.8	9.9	2.8	1.2	1.7	6.0	11.2	2.9
Other family earnings or savings	2.5	2.7	1.2	2.1	3.7	0.0	1.2	1.0	3.1	3.7	1.3
Teaching assistantship	9.1	9.5	3.5	5.6	2.5	8.3	35.8	16.8	6.4	12.1	6.3
Research assistantship, traineeship, and internship	13.8	12.6	27.1	16.8	3.7	25.0	2.5	23.6	11.7	6.8	22.1
Research assistantship	11.4	10.0	25.9	11.4	2.5	25.0	2.5	23.3	8.2	5.8	20.8
Traineeship	1.8	1.9	1.2	5.2	1.2	0.0	0.0	0.3	1.6	0.8	1.1
Internship or residency	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.2	0.2
Other assistantship	0.4	0.5	0.0	0.1	0.0	0.0	0.0	0.0	1.6	0.0	0.0
Fellowship/scholarship or Grant/stipend	42.8	42.4	44.7	61.2	33.3	41.7	43.2	44.2	33.5	37.0	46.0
Fellowship/scholarship	38.0	37.3	41.2	46.6	32.1	38.9	42.0	39.0	31.0	35.5	43.1
Grant/stipend	4.8	5.1	3.5	14.6	1.2	2.8	1.2	5.1	2.5	1.5	2.9
Employer reimbursement or assistance	3.2	2.5	5.9	1.5	8.6	5.6	3.7	1.7	1.7	3.1	8.0
Foreign	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.0
Other	0.2	0.2	0.0	0.0	1.2	2.8	1.2	0.3	0.1	0.1	0.0
Not reported	7.6	7.7	3.5	6.3	13.6	8.3	4.9	6.5	10.9	6.2	6.5

Women, Minorities, and Persons with Disabilities in Science and Engineering

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(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Hispanic (number)	3,653	3,183	106	942	58	67	94	336	883	697	470
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/family funds	20.6	22.1	21.7	7.4	20.7	3.0	2.1	5.7	43.1	27.8	10.4
Loans	9.8	11.0	9.4	1.9	3.4	1.5	1.1	2.1	25.6	12.1	1.7
Savings	1.3	1.3	1.9	0.4	5.2	0.0	0.0	0.3	2.0	1.9	1.1
Other earnings in graduate school	5.1	5.1	5.7	2.3	10.3	1.5	1.1	0.9	7.4	8.5	4.7
Other family earnings or savings	4.5	4.7	4.7	2.8	1.7	0.0	0.0	2.4	8.2	5.5	3.0
Teaching assistantship	10.9	11.9	7.5	6.3	3.4	10.4	42.6	19.3	8.2	18.1	4.5
Research assistantship, traineeship, and internship	18.1	16.2	31.1	19.2	29.3	26.9	7.4	33.9	11.7	6.2	31.1
Research assistantship	16.0	13.9	30.2	15.2	29.3	26.9	6.4	32.1	9.5	5.0	30.2
Traineeship	0.3	0.3	0.0	0.0	0.0	0.0	1.1	1.8	0.7	0.6	0.2
Internship or residency	1.6	1.8	0.9	3.9	0.0	0.0	0.0	0.0	1.0	0.6	0.6
Other assistantship	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Fellowship/scholarship or Grant/stipend	40.9	41.2	24.5	60.2	29.3	46.3	38.3	33.6	26.5	41.0	38.9
Fellowship/scholarship	34.6	34.6	21.7	44.8	29.3	41.8	35.1	30.1	23.2	39.2	34.3
Grant/stipend	6.3	6.5	2.8	15.4	0.0	4.5	3.2	3.6	3.3	1.9	4.7
Employer reimbursement or assistance	2.8	1.9	8.5	1.2	6.9	4.5	6.4	2.4	1.2	1.0	8.9
Foreign	0.8	0.6	0.0	0.4	5.2	1.5	1.1	0.0	0.5	1.0	1.7
Other	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.0
Not reported	5.8	6.0	6.6	5.2	5.2	7.5	2.1	5.1	8.6	4.7	4.5
American Indian/Alaska Native (number)	342	303	13	64	8	10	7	30	81	90	39
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/family funds	28.9	29.0	15.4	6.3	25.0	20.0	0.0	20.0	43.2	41.1	28.2
Loans	8.5	9.2	7.7	1.6	0.0	0.0	0.0	3.3	18.5	11.1	2.6
Savings	4.7	4.0	0.0	0.0	0.0	0.0	0.0	3.3	4.9	7.8	10.3
Other earnings in graduate school	8.5	8.6	0.0	3.1	25.0	10.0	0.0	3.3	9.9	13.3	7.7
Other family earnings or savings	7.3	7.3	7.7	1.6	0.0	10.0	0.0	10.0	9.9	8.9	7.7
Teaching assistantship	9.9	10.9	0.0	9.4	0.0	10.0	57.1	10.0	9.9	12.2	2.6
Research assistantship, traineeship, and internship	15.5	15.2	23.1	20.3	0.0	20.0	14.3	43.3	11.1	5.6	17.9
Research assistantship	14.0	13.9	23.1	17.2	0.0	20.0	14.3	43.3	9.9	4.4	15.4
Traineeship	0.6	0.7	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internship or residency	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.6
Other assistantship	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Fellowship/scholarship or Grant/stipend	34.2	35.0	46.2	57.8	25.0	40.0	0.0	13.3	27.2	34.4	28.2
Fellowship/scholarship	31.6	32.0	38.5	50.0	25.0	40.0	0.0	13.3	25.9	32.2	28.2
Grant/stipend	2.6	3.0	7.7	7.8	0.0	0.0	0.0	0.0	1.2	2.2	0.0
Employer reimbursement or assistance	3.8	2.6	15.4	1.6	37.5	0.0	14.3	3.3	0.0	0.0	12.8
Foreign	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
Not reported	7.3	6.9	0.0	4.7	12.5	10.0	14.3	10.0	7.4	6.7	10.3

Women, Minorities, and Persons with Disabilities in Science and Engineering

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(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Other or not reported race/ethnicity ^a (number)	2,962	2,536	78	703	102	90	90	397	502	574	426
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/family funds	17.4	18.3	14.1	7.8	20.6	13.3	11.1	4.5	31.5	31.0	12.2
Loans	4.9	5.4	1.3	1.3	0.0	4.4	2.2	0.5	15.1	7.7	1.9
Savings	1.7	1.6	3.8	0.4	2.0	1.1	1.1	0.0	2.2	3.5	2.1
Other earnings in graduate school	5.8	5.9	3.8	3.1	12.7	3.3	4.4	2.5	5.2	11.8	5.4
Other family earnings or savings	5.0	5.3	5.1	3.0	5.9	4.4	3.3	1.5	9.0	8.0	2.8
Teaching assistantship	12.9	14.1	9.0	8.3	7.8	10.0	47.8	15.1	13.1	18.5	5.9
Research assistantship, traineeship, and internship	23.0	21.9	34.6	24.3	26.5	28.9	6.7	45.1	15.5	7.3	29.1
Research assistantship	20.5	19.1	34.6	18.2	25.5	26.7	6.7	44.6	11.4	7.0	28.6
Traineeship	2.1	2.3	0.0	5.8	1.0	1.1	0.0	0.5	2.6	0.2	0.5
Internship or residency	0.2	0.3	0.0	0.3	0.0	1.1	0.0	0.0	0.6	0.2	0.0
Other assistantship	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Fellowship/scholarship or Grant/stipend	27.9	27.8	23.1	44.7	21.6	33.3	17.8	19.1	16.7	25.4	28.2
Fellowship/scholarship	22.5	22.2	19.2	31.4	18.6	30.0	16.7	14.9	15.1	22.6	24.6
Grant/stipend	5.4	5.7	3.8	13.2	2.9	3.3	1.1	4.3	1.6	2.8	3.5
Employer reimbursement or assistance	2.4	1.4	3.8	0.7	2.9	2.2	2.2	1.0	1.4	1.6	8.2
Foreign	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
Other	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.3	0.4	0.0	0.0
Not reported	16.3	16.3	15.4	14.1	20.6	12.2	14.4	14.9	21.3	15.9	16.2

^aThis category includes Native Hawaiian/other Pacific Islander and respondents choosing multiple races (excluding those selecting Hispanic ethnicity).
SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001–2005.