

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1999–2003
(Percent)

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)	82,194	69,970	2,325	20,793	2,231	2,509	2,661	10,319	15,196	13,936	12,224
Personal/family funds	22.9	24.4	21.9	11.3	25.0	15.4	11.5	7.4	48.8	34.2	14.5
Loans	7.1	8.0	4.4	2.3	2.6	2.2	1.5	1.3	22.4	9.6	2.0
Savings	1.8	1.9	2.0	0.7	3.5	2.0	0.9	0.5	3.0	3.3	1.8
Other earnings in graduate school	6.7	6.8	8.3	3.0	12.1	6.5	3.9	1.8	10.0	12.1	6.4
Other family earnings or savings	7.2	7.7	7.2	5.3	6.7	4.7	5.1	3.9	13.3	9.1	4.3
Teaching assistantship	15.3	16.8	7.0	10.9	9.5	13.3	52.5	20.5	13.9	22.4	6.7
Research assistantship, traineeship, and internship	29.8	27.5	45.7	34.6	33.2	39.2	10.7	49.2	16.0	10.5	43.2
Research assistantship	26.8	24.1	45.3	27.3	32.1	38.1	9.7	48.0	12.5	9.7	42.1
Traineeship	2.7	3.1	0.3	7.0	0.6	0.8	0.9	1.1	2.7	0.7	0.8
Internship or residency	0.3	0.3	0.1	0.3	0.4	0.3	0.1	0.2	0.8	0.1	0.3
Fellowship/scholarship or dissertation grant	23.5	23.7	14.5	36.8	16.6	24.9	19.4	16.7	12.4	24.9	22.3
Fellowship/scholarship	22.1	22.3	12.4	34.4	15.7	22.0	19.1	15.7	12.1	23.7	20.8
Dissertation grant	1.4	1.4	2.1	2.4	0.9	2.9	0.3	1.0	0.3	1.2	1.5
Employer reimbursement or assistance	3.2	2.3	5.7	1.8	9.1	3.4	2.2	1.8	1.3	2.6	8.3
Foreign	0.3	0.2	0.6	0.2	0.4	0.3	0.1	0.1	0.1	0.3	0.5
Other	0.2	0.2	0.2	0.3	0.3	0.3	0.1	0.1	0.3	0.1	0.2
Unknown	4.9	5.0	4.4	4.2	6.0	3.3	3.5	4.2	7.1	4.9	4.3
White (number)	63,813	55,036	1,936	15,861	1,608	2,114	2,174	8,279	12,244	10,820	8,777
Personal/family funds	24.2	25.6	23.8	12.2	26.3	15.8	11.7	7.9	50.7	35.1	15.5
Loans	7.3	8.1	4.6	2.4	2.2	1.7	1.3	1.3	22.5	9.4	2.0
Savings	1.9	1.9	1.8	0.7	3.5	2.1	0.9	0.5	3.1	3.3	1.8
Other earnings in graduate school	7.2	7.2	9.2	3.2	13.6	6.8	4.1	1.8	10.7	12.6	7.1
Other family earnings or savings	7.8	8.4	8.1	5.9	7.0	5.2	5.3	4.3	14.4	9.7	4.6
Teaching assistantship	16.2	17.7	7.2	11.8	9.2	14.2	54.4	20.8	15.0	23.6	6.6
Research assistantship, traineeship, and internship	30.1	28.1	45.4	35.3	32.2	38.7	11.1	50.3	16.7	11.2	42.9
Research assistantship	27.0	24.6	45.1	27.8	31.1	37.7	10.0	49.0	13.1	10.3	41.8
Traineeship	2.8	3.1	0.2	7.2	0.6	0.9	1.0	1.1	2.8	0.8	0.8
Internship or residency	0.3	0.4	0.1	0.3	0.4	0.2	0.1	0.2	0.9	0.1	0.3
Fellowship/scholarship or dissertation grant	21.7	21.7	13.4	35.0	16.7	24.5	17.7	15.7	9.8	22.9	21.8
Fellowship/scholarship	20.3	20.3	11.3	32.5	15.8	21.4	17.4	14.7	9.5	21.7	20.2
Dissertation grant	1.4	1.4	2.1	2.5	0.9	3.1	0.3	1.0	0.3	1.3	1.6
Employer reimbursement or assistance	3.3	2.3	5.8	1.9	9.4	3.6	2.2	1.8	1.3	2.7	9.1
Foreign	0.2	0.1	0.5	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.3
Other	0.2	0.2	0.2	0.3	0.4	0.3	0.0	0.1	0.4	0.2	0.3
Unknown	4.1	4.2	3.8	3.4	5.7	2.6	2.8	3.4	6.1	4.1	3.6
Asian/Pacific Islander (number)	8,501	6,371	139	2,828	392	159	254	1,043	652	904	2,130
Personal/family funds	12.6	13.1	10.1	6.3	17.6	10.1	14.2	3.7	38.2	26.0	10.9
Loans	2.8	3.2	0.7	0.9	1.3	1.9	1.6	0.4	18.7	4.6	1.4

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

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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
Savings	1.5	1.4	2.9	0.7	3.1	0.6	1.6	0.7	1.7	3.4	1.6
Other earnings in graduate school	3.6	3.3	2.9	1.4	7.1	4.4	4.3	1.2	5.4	8.2	4.4
Other family earnings or savings	4.7	5.1	3.6	3.2	6.1	3.1	6.7	1.4	12.4	9.7	3.5
Teaching assistantship	13.6	15.4	6.5	7.7	12.0	7.5	54.7	22.4	14.9	25.0	8.2
Research assistantship, traineeship, and internship	40.4	36.2	61.2	40.3	45.4	61.0	12.2	52.4	18.1	12.3	53.0
Research assistantship	36.9	31.9	60.4	32.5	44.1	58.5	11.4	51.3	14.4	11.6	51.9
Traineeship	3.2	4.1	0.7	7.7	0.5	0.6	0.8	1.0	3.4	0.6	0.7
Internship or residency	0.2	0.2	0.0	0.1	0.8	1.9	0.0	0.2	0.3	0.1	0.3
Fellowship/scholarship or dissertation grant	24.8	27.5	12.2	39.1	10.5	17.6	14.2	13.3	18.3	29.3	16.6
Fellowship/scholarship	23.4	26.1	10.8	37.0	9.2	15.7	13.8	12.8	17.8	28.1	15.3
Dissertation grant	1.4	1.4	1.4	2.1	1.3	1.9	0.4	0.6	0.5	1.2	1.3
Employer reimbursement or assistance	2.9	1.9	2.2	1.3	9.2	0.6	2.4	1.8	0.9	1.7	5.6
Foreign	0.6	0.4	2.9	0.1	0.8	0.6	0.0	0.2	0.3	1.3	0.9
Other	0.1	0.2	0.0	0.3	0.0	0.0	0.0	0.1	0.2	0.0	0.0
Unknown	5.1	5.2	5.0	4.8	4.6	2.5	2.4	5.9	9.2	4.4	4.8
Black (number)	3,473	3,042	83	605	85	50	75	307	874	963	431
Personal/family funds	25.1	26.7	13.3	9.6	37.6	16.0	6.7	7.5	38.6	35.2	13.2
Loans	13.4	14.6	7.2	4.3	16.5	8.0	5.3	4.2	24.3	17.1	5.1
Savings	1.9	1.9	1.2	0.3	5.9	2.0	0.0	0.3	2.3	2.9	1.9
Other earnings in graduate school	6.2	6.5	4.8	2.8	10.6	6.0	0.0	1.0	6.8	10.7	3.9
Other family earnings or savings	3.5	3.7	0.0	2.1	4.7	0.0	1.3	2.0	5.3	4.5	2.3
Teaching assistantship	9.3	9.7	1.2	7.6	3.5	6.0	29.3	16.6	6.4	11.8	6.3
Research assistantship, traineeship, and internship	15.2	14.1	39.8	20.0	8.2	24.0	1.3	27.0	11.9	7.1	23.0
Research assistantship	12.9	11.8	38.6	13.6	7.1	24.0	1.3	26.4	9.6	6.3	20.9
Traineeship	2.1	2.2	1.2	6.4	1.2	0.0	0.0	0.7	2.1	0.6	1.6
Internship or residency	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.5
Fellowship/scholarship or dissertation grant	40.5	39.5	33.7	54.2	35.3	34.0	54.7	41.4	33.3	35.2	48.0
Fellowship/scholarship	39.5	38.4	33.7	51.1	35.3	34.0	54.7	39.4	32.8	34.9	46.9
Dissertation grant	1.1	1.1	0.0	3.1	0.0	0.0	0.0	2.0	0.5	0.3	1.2
Employer reimbursement or assistance	2.6	2.3	3.6	1.5	5.9	6.0	1.3	1.6	1.8	3.0	4.4
Foreign	0.1	0.1	0.0	0.2	1.2	0.0	0.0	0.0	0.1	0.1	0.2
Other	0.2	0.2	0.0	0.3	0.0	2.0	1.3	0.0	0.1	0.2	0.0
Unknown	7.0	7.3	8.4	6.6	8.2	12.0	5.3	5.9	7.8	7.4	4.9
Hispanic (number)	3,586	3,131	101	870	60	89	73	342	955	641	455
Personal/family funds	23.8	25.4	15.8	11.4	20.0	18.0	5.5	7.0	45.7	29.3	12.5
Loans	10.2	11.2	6.9	3.2	1.7	6.7	2.7	1.8	24.8	10.1	3.1
Savings	1.4	1.5	3.0	0.3	5.0	1.1	0.0	0.3	2.2	2.2	1.1
Other earnings in graduate school	6.1	6.4	2.0	3.0	5.0	9.0	1.4	2.3	9.0	10.1	4.4
Other family earnings or savings	6.0	6.3	4.0	4.8	8.3	1.1	1.4	2.6	9.6	6.9	4.0

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Teaching assistantship	11.3	12.2	6.9	7.9	11.7	11.2	35.6	19.6	7.9	18.9	5.5
Research assistantship, traineeship, and internship	18.7	16.7	41.6	21.3	30.0	27.0	4.1	36.3	9.6	5.6	31.9
Research assistantship	16.6	14.5	40.6	17.1	28.3	25.8	4.1	34.5	7.3	5.0	31.4
Traineeship	1.8	2.0	0.0	4.1	1.7	1.1	0.0	1.8	1.8	0.5	0.4
Internship or residency	0.2	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.0
Fellowship/scholarship or dissertation grant	34.4	34.4	19.8	50.1	20.0	34.8	47.9	29.5	21.2	37.3	34.3
Fellowship/scholarship	32.9	33.0	16.8	47.6	20.0	33.7	47.9	28.7	20.5	35.9	32.5
Dissertation grant	1.5	1.4	3.0	2.5	0.0	1.1	0.0	0.9	0.6	1.4	1.8
Employer reimbursement or assistance	3.0	2.1	7.9	1.8	8.3	4.5	4.1	2.3	1.5	1.2	8.8
Foreign	1.1	0.9	1.0	1.0	3.3	1.1	0.0	0.6	0.4	1.2	2.9
Other	0.1	0.2	1.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Unknown	7.7	8.2	5.9	6.2	6.7	3.4	2.7	4.7	13.6	6.4	4.2
American Indian/Alaska Native (number)	418	373	11	75	7	13	10	39	111	107	45
Personal/family funds	30.4	30.6	0.0	13.3	42.9	15.4	0.0	20.5	45.0	38.3	28.9
Loans	9.3	9.7	0.0	6.7	14.3	0.0	0.0	2.6	18.0	8.4	6.7
Savings	3.8	3.8	0.0	1.3	0.0	7.7	0.0	2.6	2.7	7.5	4.4
Other earnings in graduate school	8.9	8.6	0.0	4.0	28.6	7.7	0.0	2.6	8.1	15.0	11.1
Other family earnings or savings	8.4	8.6	0.0	1.3	0.0	0.0	0.0	12.8	16.2	7.5	6.7
Teaching assistantship	9.1	10.2	9.1	6.7	0.0	15.4	50.0	10.3	7.2	12.1	0.0
Research assistantship, traineeship, and internship	17.7	17.2	27.3	26.7	14.3	30.8	30.0	38.5	9.0	7.5	22.2
Research assistantship	16.3	15.8	27.3	21.3	14.3	30.8	30.0	38.5	8.1	7.5	20.0
Traineeship	1.0	1.1	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internship or residency	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.2
Fellowship/scholarship or dissertation grant	29.9	30.6	18.2	49.3	14.3	30.8	0.0	12.8	27.0	32.7	24.4
Fellowship/scholarship	29.2	30.0	18.2	48.0	14.3	30.8	0.0	12.8	26.1	32.7	22.2
Dissertation grant	0.7	0.5	0.0	1.3	0.0	0.0	0.0	0.0	0.9	0.0	2.2
Employer reimbursement or assistance	3.1	1.9	27.3	0.0	14.3	0.0	10.0	0.0	0.0	1.9	13.3
Foreign	1.0	0.8	0.0	1.3	0.0	0.0	0.0	0.0	0.9	0.9	2.2
Other	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
Unknown	8.4	8.3	18.2	2.7	14.3	7.7	10.0	17.9	9.0	6.5	8.9
Other or unknown race/ethnicity (number)	2,403	2,017	55	554	79	84	75	309	360	501	386
Personal/family funds	20.0	21.4	16.4	12.3	22.8	11.9	9.3	4.5	38.9	32.9	12.7
Loans	5.6	6.4	0.0	2.2	1.3	6.0	1.3	0.3	18.6	8.4	1.3
Savings	2.0	2.1	5.5	0.7	2.5	0.0	1.3	0.0	3.6	3.8	1.8
Other earnings in graduate school	7.1	7.2	7.3	4.3	13.9	2.4	4.0	1.9	8.1	13.2	6.7
Other family earnings or savings	5.2	5.7	3.6	5.1	5.1	3.6	2.7	2.3	8.6	7.6	2.8
Teaching assistantship	11.8	13.0	9.1	9.4	8.9	6.0	32.0	12.9	10.8	18.0	5.4
Research assistantship, traineeship, and internship	23.8	22.2	36.4	25.5	24.1	33.3	8.0	46.6	15.6	6.6	32.6
Research assistantship	21.6	19.7	36.4	19.7	24.1	32.1	8.0	46.6	11.1	6.4	31.9

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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
Traineeship	2.0	2.2	0.0	5.6	0.0	0.0	0.0	0.0	3.3	0.2	0.8
Internship or residency	0.2	0.3	0.0	0.2	0.0	1.2	0.0	0.0	1.1	0.0	0.0
Fellowship/scholarship or dissertation grant	23.8	24.2	20.0	35.4	24.1	32.1	24.0	17.8	13.9	22.6	21.5
Fellowship/scholarship	22.4	22.8	16.4	33.2	22.8	28.6	24.0	15.9	13.3	21.8	20.5
Dissertation grant	1.4	1.5	3.6	2.2	1.3	3.6	0.0	1.9	0.6	0.8	1.0
Employer reimbursement or assistance	2.6	1.5	5.5	1.3	6.3	0.0	1.3	1.6	0.8	1.4	8.0
Foreign	0.5	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.8	1.3
Other	0.3	0.1	0.0	0.2	0.0	0.0	0.0	0.3	0.3	0.0	1.0
Unknown	17.3	17.3	12.7	15.9	13.9	16.7	25.3	16.2	19.4	17.8	17.4

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1999–2003.