

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001
(Percent)

Race/ethnicity and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
All recipients (number)	87,588	73,318	2,518	21,169	2,450	2,666	2,998	11,364	15,940	14,213	14,270
Personal/family funds	24.5	26.2	23.9	13.4	26.2	16.8	14.0	8.8	50.9	36.0	16.0
Loans	6.2	7.1	3.6	2.1	1.9	1.9	1.4	1.1	20.4	8.0	1.6
Savings	1.4	1.5	1.7	0.6	2.7	1.4	0.7	0.4	2.3	2.7	1.3
Other earnings in graduate school	8.8	8.9	10.9	4.4	14.4	8.4	5.7	2.9	13.4	15.1	8.1
Other family earnings or savings	8.1	8.7	7.7	6.4	7.3	5.2	6.3	4.4	14.9	10.3	5.1
Teaching assistantship	15.2	16.8	6.4	11.3	10.5	13.4	51.8	20.4	13.1	22.4	7.0
Research assistantship, traineeship, and internship	31.3	28.7	46.4	38.9	31.9	41.2	10.8	49.2	14.4	11.2	44.5
Research assistantship	28.5	25.7	46.0	32.3	31.0	40.0	9.9	47.8	11.7	10.3	42.9
Traineeship	2.6	2.8	0.3	6.4	0.7	1.0	0.9	1.3	2.1	0.9	1.4
Internship or residency	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.6	0.1	0.2
Fellowship/scholarship or dissertation grant	19.3	19.4	11.5	29.0	14.9	20.7	16.7	14.0	10.6	21.7	18.6
Fellowship/scholarship	18.5	18.6	10.5	27.6	14.5	19.1	16.5	13.7	10.5	21.0	17.9
Dissertation grant	0.7	0.7	1.0	1.3	0.4	1.6	0.2	0.4	0.1	0.8	0.7
Employer reimbursement or assistance	2.9	2.0	4.2	1.5	8.4	2.3	1.4	1.8	1.5	2.2	7.2
Foreign	0.3	0.2	1.1	0.2	0.5	0.3	0.2	0.1	0.1	0.4	0.7
Other	0.8	0.8	0.6	1.0	1.0	0.8	0.5	0.6	0.8	0.8	1.1
Unknown	5.7	5.9	5.9	4.7	6.7	4.5	4.5	5.1	8.6	5.4	4.9
White (number)	67,684	57,485	2,011	16,078	1,783	2,208	2,400	8,975	12,913	11,117	10,199
Personal/family funds	26.2	27.8	25.8	14.7	27.9	17.9	14.3	9.4	53.3	37.1	17.1
Loans	6.4	7.2	3.9	2.2	1.5	1.6	1.1	1.1	20.6	7.8	1.6
Savings	1.5	1.5	1.4	0.6	2.6	1.4	0.7	0.4	2.5	2.7	1.3
Other earnings in graduate school	9.5	9.5	11.7	4.8	16.1	9.0	6.0	3.1	14.1	15.7	9.0
Other family earnings or savings	8.9	9.5	8.7	7.1	7.7	5.9	6.5	4.9	16.1	11.0	5.3
Teaching assistantship	16.0	17.7	6.8	12.2	9.9	14.0	53.4	20.4	14.2	23.5	6.5
Research assistantship, traineeship, and internship	31.3	29.1	46.4	39.0	31.0	40.3	11.2	50.3	15.3	11.7	44.0
Research assistantship	28.4	25.9	46.1	32.0	30.0	39.1	10.1	48.8	12.5	10.7	42.2
Traineeship	2.7	2.9	0.2	6.7	0.8	1.1	1.0	1.4	2.2	1.0	1.5
Internship or residency	0.2	0.3	0.0	0.2	0.2	0.1	0.1	0.1	0.6	0.1	0.2
Fellowship/scholarship or dissertation grant	18.0	17.8	10.8	27.5	15.4	20.9	15.6	13.4	8.3	20.0	19.0
Fellowship/scholarship	17.3	17.1	9.8	26.2	15.0	19.2	15.4	13.0	8.2	19.2	18.2
Dissertation grant	0.7	0.7	1.0	1.3	0.4	1.8	0.3	0.4	0.1	0.8	0.7
Employer reimbursement or assistance	3.0	2.1	4.5	1.6	9.1	2.4	1.5	1.8	1.5	2.3	8.0
Foreign	0.2	0.1	0.5	0.1	0.2	0.2	0.2	0.1	0.0	0.3	0.4
Other	0.8	0.8	0.4	1.0	1.0	0.7	0.4	0.5	0.8	0.8	1.1
Unknown	4.5	4.6	4.8	3.8	5.6	3.4	3.3	4.0	6.6	4.3	3.8

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001
(Percent)

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Race/ethnicity and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
Asian/Pacific Islander (number)	9,942	7,308	202	3,077	421	223	343	1,389	637	1,016	2,634
Personal/family funds	13.5	13.7	12.9	7.1	18.3	7.2	14.6	4.9	40.2	28.2	12.9
Loans	2.2	2.6	1.0	0.6	0.5	1.3	1.7	0.3	18.4	3.9	1.0
Savings	1.1	1.0	2.5	0.6	2.6	0.4	0.6	0.5	0.8	2.8	1.2
Other earnings in graduate school	4.8	4.5	5.4	2.2	9.3	3.1	5.0	1.9	8.0	10.5	5.7
Other family earnings or savings	5.4	5.6	4.0	3.8	5.9	2.2	7.3	2.2	13.0	11.0	5.0
Teaching assistantship	14.9	17.0	5.4	9.2	15.4	8.5	55.7	23.7	15.1	24.5	9.0
Research assistantship, traineeship, and internship	43.4	39.5	60.9	46.4	43.0	65.9	11.4	52.4	16.2	13.6	54.1
Research assistantship	40.9	36.5	60.4	40.7	42.3	64.6	10.8	51.4	13.2	13.4	53.0
Traineeship	2.3	2.8	0.5	5.6	0.2	0.4	0.6	0.9	2.7	0.1	0.9
Internship or residency	0.2	0.2	0.0	0.1	0.5	0.9	0.0	0.1	0.3	0.1	0.2
Fellowship/scholarship or dissertation grant	18.5	20.9	8.4	29.4	9.3	10.3	11.7	9.6	17.4	25.2	11.8
Fellowship/scholarship	17.9	20.2	7.4	28.4	8.8	9.4	11.4	9.5	17.3	24.4	11.5
Dissertation grant	0.6	0.7	1.0	1.1	0.5	0.9	0.3	0.1	0.2	0.8	0.3
Employer reimbursement or assistance	2.2	1.4	2.0	1.0	6.2	0.9	0.9	1.4	0.9	1.3	4.4
Foreign	0.7	0.4	3.0	0.1	1.2	0.4	0.0	0.1	0.3	1.1	1.3
Other	1.0	0.9	1.0	1.1	1.0	1.3	0.6	1.1	0.5	0.3	1.1
Unknown	6.0	6.2	6.4	5.6	5.7	5.4	5.2	6.8	9.4	5.8	5.4
Black (number)	3,382	2,930	97	593	69	42	68	290	845	926	452
Personal/family funds	26.4	28.4	17.5	12.0	33.3	16.7	11.8	8.3	40.6	36.5	13.5
Loans	11.8	12.9	5.2	4.0	15.9	9.5	7.4	3.4	21.4	14.9	4.4
Savings	1.6	1.7	1.0	0.5	2.9	0.0	0.0	0.0	2.1	2.8	0.9
Other earnings in graduate school	8.8	9.4	9.3	4.6	10.1	7.1	1.5	3.1	11.1	13.6	4.4
Other family earnings or savings	4.3	4.3	2.1	2.9	4.3	0.0	2.9	1.7	5.9	5.2	3.8
Teaching assistantship	9.4	10.0	6.2	7.1	4.3	11.9	27.9	16.9	6.3	12.5	5.8
Research assistantship, traineeship, and internship	16.5	15.4	38.1	24.5	8.7	23.8	2.9	28.3	11.6	7.7	23.9
Research assistantship	14.3	13.3	37.1	18.5	8.7	23.8	2.9	27.6	9.8	6.8	21.0
Traineeship	2.1	2.0	1.0	5.9	0.0	0.0	0.0	0.7	1.7	0.8	2.7
Internship or residency	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Fellowship/scholarship or dissertation grant	36.8	35.7	21.6	47.9	34.8	33.3	50.0	37.9	30.9	32.2	44.2
Fellowship/scholarship	36.0	34.9	21.6	45.2	34.8	33.3	50.0	36.6	30.8	31.9	43.6
Dissertation grant	0.8	0.8	0.0	2.7	0.0	0.0	0.0	1.4	0.1	0.3	0.7
Employer reimbursement or assistance	2.6	2.3	2.1	1.0	5.8	7.1	1.5	1.4	2.6	2.7	4.9
Foreign	0.3	0.2	3.1	0.3	1.4	0.0	0.0	0.0	0.0	0.1	0.4
Other	0.9	0.8	1.0	0.8	1.4	2.4	0.0	1.4	0.6	0.8	1.3
Unknown	7.0	7.2	10.3	6.4	10.1	4.8	5.9	5.9	7.5	7.6	6.0

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001
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Race/ethnicity and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
Hispanic (number)	3,531	3,069	121	826	67	86	92	329	979	569	462
Personal/family funds	25.9	27.6	21.5	13.2	29.9	19.8	9.8	9.7	46.2	31.8	15.2
Loans	9.5	10.4	4.1	3.3	4.5	7.0	2.2	2.1	22.3	8.8	3.5
Savings	1.3	1.4	4.1	0.2	3.0	2.3	1.1	0.3	1.5	2.5	0.9
Other earnings in graduate school	8.2	8.4	8.3	4.1	11.9	8.1	2.2	4.0	11.2	13.2	6.3
Other family earnings or savings	7.0	7.4	5.0	5.6	10.4	2.3	4.3	3.3	11.1	7.4	4.5
Teaching assistantship	10.9	11.6	2.5	8.0	11.9	11.6	32.6	16.1	7.4	19.9	6.7
Research assistantship, traineeship, and internship	19.7	17.9	40.5	27.0	25.4	20.9	6.5	35.3	7.9	7.4	32.0
Research assistantship	17.6	15.8	39.7	23.1	23.9	18.6	6.5	33.4	5.8	7.0	29.9
Traineeship	1.9	1.9	0.0	3.9	1.5	2.3	0.0	1.8	1.6	0.2	2.2
Internship or residency	0.2	0.2	0.8	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0
Fellowship/scholarship or dissertation grant	28.8	29.0	15.7	42.0	11.9	34.9	38.0	28.0	18.6	31.3	27.3
Fellowship/scholarship	28.0	28.3	14.9	40.3	11.9	34.9	38.0	27.7	18.4	30.4	26.2
Dissertation grant	0.8	0.7	0.8	1.7	0.0	0.0	0.0	0.3	0.2	0.9	1.1
Employer reimbursement or assistance	2.7	2.0	3.3	1.3	9.0	2.3	2.2	3.0	2.0	0.9	7.4
Foreign	1.6	1.3	6.6	1.2	3.0	2.3	1.1	1.2	0.3	1.9	3.7
Other	1.0	0.9	2.5	1.0	1.5	1.2	0.0	0.3	0.9	1.1	1.5
Unknown	9.3	9.7	7.4	6.3	7.5	7.0	9.8	6.4	16.8	5.8	6.3
American Indian/Alaskan Native (number)	452	395	19	71	8	16	9	50	123	99	57
Personal/family funds	28.5	28.4	0.0	15.5	25.0	18.8	11.1	18.0	40.7	36.4	29.8
Loans	7.7	8.1	0.0	7.0	12.5	0.0	0.0	2.0	17.1	4.0	5.3
Savings	2.4	2.5	0.0	1.4	0.0	6.3	0.0	4.0	1.6	4.0	1.8
Other earnings in graduate school	10.6	10.4	0.0	4.2	12.5	12.5	11.1	4.0	8.1	22.2	12.3
Other family earnings or savings	7.7	7.3	0.0	2.8	0.0	0.0	0.0	8.0	13.8	6.1	10.5
Teaching assistantship	8.8	10.1	10.5	7.0	12.5	12.5	55.6	10.0	7.3	11.1	0.0
Research assistantship, traineeship, and internship	20.6	19.7	31.6	32.4	37.5	37.5	33.3	40.0	7.3	8.1	26.3
Research assistantship	18.8	18.0	31.6	26.8	25.0	37.5	33.3	38.0	6.5	8.1	24.6
Traineeship	1.5	1.5	0.0	5.6	12.5	0.0	0.0	2.0	0.0	0.0	1.8
Internship or residency	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
Fellowship/scholarship or dissertation grant	28.1	28.9	21.1	40.8	25.0	31.3	0.0	16.0	27.6	32.3	22.8
Fellowship/scholarship	27.4	28.4	21.1	39.4	25.0	31.3	0.0	16.0	26.8	32.3	21.1
Dissertation grant	0.7	0.5	0.0	1.4	0.0	0.0	0.0	0.0	0.8	0.0	1.8
Employer reimbursement or assistance	2.9	1.8	15.8	0.0	0.0	0.0	0.0	0.0	1.6	2.0	10.5
Foreign	1.5	1.3	5.3	1.4	0.0	0.0	0.0	0.0	1.6	1.0	3.5
Other	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0
Unknown	9.1	9.4	15.8	2.8	0.0	0.0	0.0	16.0	12.2	9.1	7.0

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Race/ethnicity and primary source of support	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physical sciences	Psychology	Social sciences	Engineering
Other or unknown race/ethnicity (number)	2,597	2,131	68	524	102	91	86	331	443	486	466
Personal/family funds	18.3	19.8	22.1	12.8	21.6	9.9	10.5	4.5	30.0	31.3	11.6
Loans	4.4	5.2	1.5	1.5	2.9	2.2	1.2	0.3	13.5	7.0	0.6
Savings	1.3	1.2	2.9	0.6	3.9	0.0	0.0	0.3	1.1	2.3	1.7
Other earnings in graduate school	7.9	8.4	13.2	5.9	9.8	7.7	5.8	1.5	8.6	15.0	6.0
Other family earnings or savings	4.7	5.1	4.4	4.8	4.9	0.0	3.5	2.4	6.8	7.0	3.2
Teaching assistantship	10.1	10.7	4.4	7.1	3.9	11.0	29.1	14.2	6.3	15.4	6.9
Research assistantship, traineeship, and internship	21.9	19.0	27.9	27.1	22.5	30.8	7.0	38.7	6.8	5.8	35.6
Research assistantship	20.3	17.0	26.5	21.9	22.5	29.7	7.0	38.4	5.0	5.1	35.0
Traineeship	1.5	1.7	1.5	5.2	0.0	0.0	0.0	0.3	0.9	0.6	0.4
Internship or residency	0.2	0.2	0.0	0.0	0.0	1.1	0.0	0.0	0.9	0.0	0.2
Fellowship/scholarship or dissertation grant	17.1	17.6	14.7	26.0	17.6	20.9	20.9	13.6	6.5	20.8	14.6
Fellowship/scholarship	16.6	17.1	13.2	25.2	17.6	18.7	20.9	13.3	6.5	20.0	14.2
Dissertation grant	0.5	0.6	1.5	0.8	0.0	2.2	0.0	0.3	0.0	0.8	0.4
Employer reimbursement or assistance	2.2	1.5	2.9	1.1	6.9	0.0	0.0	1.2	0.7	2.1	5.2
Foreign	0.4	0.3	0.0	0.2	0.0	0.0	1.2	0.0	0.2	0.6	1.1
Other	1.0	1.0	1.5	1.1	1.0	1.1	2.3	1.2	0.5	0.8	1.3
Unknown	29.0	30.1	26.5	24.6	26.5	26.4	29.1	26.6	49.0	23.3	23.8

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.