

# NATIONAL SCIENCE FOUNDATION

## NATIONAL SCIENCE FOUNDATION

### Federal Funds

#### General and special funds:

##### RESEARCH AND RELATED ACTIVITIES

For necessary expenses in carrying out the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-1875), and the Act to establish a National Medal of Science (42 U.S.C. 1880-1881); services as authorized by 5 U.S.C. 3109; authorized travel; maintenance and operation of aircraft and purchase of flight services for research support; acquisition of aircraft; **[\$3,350,000,000] \$3,326,981,000**, of which not to exceed **[\$275,592,000] \$285,000,000** shall remain available until expended for Polar research and operations support, and for reimbursement to other Federal agencies for operational and science support and logistical and other related activities for the United States Antarctic program; the balance to remain available until September 30, **[2002] 2003: Provided**, That receipts for scientific support services and materials furnished by the National Research Centers and other National Science Foundation supported research facilities may be credited to this appropriation; *Provided further*, That to the extent that the amount appropriated is less than the total amount authorized to be appropriated for included program activities, all amounts, including floors and ceilings, specified in the authorizing Act for those program activities or their subactivities shall be reduced proportionally; *Provided further*, That \$65,000,000 of the funds available under this heading shall be made available for a comprehensive research initiative on plant genomes for economically significant crops; *Provided further*, That no funds in this or any other Act shall be used to acquire or lease a research vessel with ice-breaking capability built or retrofitted by a shipyard located in a foreign country if such a vessel of United States origin can be obtained at a cost no more than 50 per centum above that of the least expensive technically acceptable foreign vessel bid; *Provided further*, That, in determining the cost of such a vessel, such cost be increased by the amount of any subsidies or financing provided by a foreign government (or instrumentality thereof) to such vessel's construction; *Provided further*, That if the vessel contracted for pursuant to the foregoing is not available for the 2002-2003 austral summer Antarctic season, a vessel of any origin may be leased for a period of not to exceed 120 days for that season and each season thereafter until delivery of the new vessel. (*Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 2001, as enacted by section 1(a)(1) of P.L. 106-377.*)

#### Program and Financing (in millions of dollars)

Identification code 49-0100-0-1-999	2000 actual	2001 est.	2002 est.
<b>Obligations by program activity:</b>			
Direct program:			
00.01 Biological sciences .....	418	485	483
00.02 Computer and information science and engineering .....	389	478	470
00.03 Engineering .....	380	431	431
00.05 Geosciences .....	488	562	559
00.06 Mathematical and physical sciences .....	756	851	864
00.07 Social, behavioral and economic sciences .....	162	164	163
00.09 U.S. Polar research programs .....	68	63	63
00.10 U.S. Antarctic logistical support activities .....	190	211	213
00.11 Integrative activities .....	129	98	81
09.01 Reimbursable programs .....	70	100	100
10.00 Total new obligations .....	3,050	3,443	3,427
<b>Budgetary resources available for obligation:</b>			
21.40 Unobligated balance carried forward, start of year .....	2	8	.....
22.00 New budget authority (gross) .....	3,043	3,443	3,427
22.10 Resources available from recoveries of prior year obligations .....	15	.....	.....
22.22 Unobligated balance transferred from other accounts .....	1	.....	.....
23.90 Total budgetary resources available for obligation .....	3,061	3,451	3,427

23.95 Total new obligations .....	-3,050	-3,443	-3,427
23.98 Unobligated balance expiring or withdrawn .....	-2	-8	.....
24.40 Unobligated balance carried forward, end of year .....	8	.....	.....

#### New budget authority (gross), detail:

Discretionary:			
40.00 Appropriation .....	3,350	3,327	.....
40.05 Appropriation (indefinite) .....	2,966	.....	.....
40.35 Appropriation rescinded .....	-8	.....	.....
40.77 Reduction pursuant to P.L. 106-554 (0.22 percent) .....	-7	.....	.....
42.00 Transferred from other accounts .....	15	.....	.....
43.00 Appropriation (total discretionary) .....	2,973	3,343	3,327
Spending authority from offsetting collections:			
68.00 Offsetting collections (cash) .....	77	100	100
68.10 Change in uncollected customer payments from Federal sources .....	-8	.....	.....
68.54 Portion credited to expired accounts .....	-1	.....	.....
68.55 Portion of change in uncollected customer payments from Federal sources in expired accounts .....	2	.....	.....
68.90 Spending authority from offsetting collections (total discretionary) .....	70	100	100
70.00 Total new budget authority (gross) .....	3,044	3,443	3,427

#### Change in unpaid obligations:

Unpaid obligations, start of year:			
72.40 Unpaid obligations, start of year .....	3,192	3,471	3,936
72.95 Uncollected customer payments from Federal sources, start of year .....	-18	-10	-10
72.99 Obligated balance, start of year .....	3,174	3,461	3,926
73.10 Total new obligations .....	3,050	3,443	3,427
73.20 Total outlays (gross) .....	-2,740	-2,978	-3,268
73.40 Adjustments in expired accounts (net) .....	-16	.....	.....
73.45 Recoveries of prior year obligations .....	-15	.....	.....
74.00 Change in uncollected customer payments from Federal sources .....	8	.....	.....
Unpaid obligations, end of year:			
74.40 Unpaid obligations, end of year .....	3,471	3,936	4,095
74.95 Uncollected customer payments from Federal sources, end of year .....	-10	-10	-10
74.99 Obligated balance, end of year .....	3,461	3,926	4,085

#### Outlays (gross), detail:

86.90 Outlays from new discretionary authority .....	663	856	853
86.93 Outlays from discretionary balances .....	2,077	2,122	2,415
87.00 Total outlays (gross) .....	2,740	2,978	3,268

#### Offsets:

Against gross budget authority and outlays:			
Offsetting collections (cash) from:			
88.00 Federal sources .....	-77	-100	-100
88.40 Non-Federal sources .....	.....	.....	.....
88.90 Total, offsetting collections (cash) .....	-77	-100	-100
Against gross budget authority only:			
88.95 Change in uncollected customer payments from Federal sources .....	8	.....	.....

#### Net budget authority and outlays:

89.00 Budget authority .....	2,974	3,343	3,327
90.00 Outlays .....	2,662	2,878	3,168

The research and related activities appropriation enables the United States to uphold world leadership in all aspects of science and engineering. This appropriation provides resources for NSF to achieve the following goals for strategic outcomes: enabling discovery across the frontier of science and engineering, connected to learning, innovation and service of society; development of a diverse, internationally competitive and globally-engaged workforce of scientists, engineers and well-prepared citizens; and providing broadly accessible,

General and special funds—Continued

RESEARCH AND RELATED ACTIVITIES—Continued

state-of-the-art information bases and shared research and education tools. Research activities will contribute to the achievement of these goals through development of intellectual capital, integration of research and education, and promotion of partnerships. This appropriation supports NSF's active development of performance indicators.

The major research program activities of the Foundation are:

*Biological sciences.*—This activity promotes scientific progress in biology through support of research ranging from the study of molecules, through cells and organisms, to studies of ecosystems. This activity also supports a comprehensive research initiative on plant genomes, including research on economically significant crops.

*Computer and information sciences and engineering.*—Research is directed at "information technology" in the broadest sense of the term, ranging from fundamental theory to systems engineering.

*Engineering.*—Research supported by this activity aims to increase U.S. engineering capability and strength, and focus that capability and strength on areas which are relevant to national problems and long-term needs. This activity also includes small business innovation research.

*Geosciences.*—This research advances knowledge of the properties and dynamics of the planet Earth.

*Mathematical and physical sciences.*—Research in this activity is directed at increasing understanding of natural laws and phenomena. It includes research in mathematical sciences, astronomy, physics, chemistry, and materials science.

*Social, behavioral and economic sciences.*—This activity supports research in social, behavioral and economic sciences, facilitates international scientific cooperation, and funds science resources studies.

*U.S. polar research programs.*—This activity supports Arctic and Antarctic research and operational science support and other related activities for the United States polar research programs. This activity includes funding for the expenses of the Arctic Research Commission.

*U.S. Antarctic logistical support activities.*—This activity provides funding for reimbursing Federal agencies for logistical and other related activities for the United States Antarctic program.

*Integrative activities.*—This activity supports emerging cross-disciplinary research efforts and major research instrumentation. This activity also provides support for the Science and Technology Policy Institute.

Object Classification (in millions of dollars)

Identification code 49-0100-0-1-999	2000 actual	2001 est.	2002 est.
<b>Direct obligations:</b>			
21.0 Travel and transportation of persons .....	6	7	7
25.1 Advisory and assistance services .....	22	22	22
25.2 Other services .....	1	1	1
25.3 Purchases of goods and services from Government accounts .....	5	5	5
25.4 Operation and maintenance of facilities .....	189	189	189
25.5 Research and development contracts .....	20	20	20
31.0 Equipment .....	1	1	1
41.0 Grants, subsidies, and contributions .....	2,736	3,098	3,082
99.0 Subtotal, direct obligations .....	2,980	3,343	3,327
99.0 Reimbursable obligations .....	70	100	100
99.9 Total new obligations .....	3,050	3,443	3,427

Personnel Summary

Identification code 49-0100-0-1-999	2000 actual	2001 est.	2002 est.
1001 Total compensable workyears: Full-time equivalent employment .....	3	4	4

ACADEMIC RESEARCH INFRASTRUCTURE

Program and Financing (in millions of dollars)

Identification code 49-0150-0-1-251	2000 actual	2001 est.	2002 est.
<b>Change in unpaid obligations:</b>			
Unpaid obligations, start of year:			
72.40 Unpaid obligations, start of year .....	35	13	6
72.99 Obligated balance, start of year .....	35	13	6
73.20 Total outlays (gross) .....	-20	-7	-4
73.40 Adjustments in expired accounts (net) .....	-2		
Unpaid obligations, end of year:			
74.40 Unpaid obligations, end of year .....	13	6	2
74.99 Obligated balance, end of year .....	13	6	2
<b>Outlays (gross), detail:</b>			
86.93 Outlays from discretionary balances .....	20	7	4
<b>Net budget authority and outlays:</b>			
89.00 Budget authority .....			
90.00 Outlays .....	20	7	4

The academic research infrastructure facilities activity has been terminated. A program to support the acquisition of major research instrumentation has been funded through the research and related activities appropriation since 1997. This account shows spending from balances prior to the account restructuring.

MAJOR RESEARCH EQUIPMENT

For necessary expenses of major construction projects pursuant to the National Science Foundation Act of 1950, as amended, including authorized travel, **[\$121,600,000]** \$96,332,000, to remain available until expended. (*Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 2001, as enacted by section 1(a)(1) of P.L. 106-377.*)

Program and Financing (in millions of dollars)

Identification code 49-0551-0-1-251	2000 actual	2001 est.	2002 est.
<b>Obligations by program activity:</b>			
10.00 Total new obligations .....	105	122	96
<b>Budgetary resources available for obligation:</b>			
21.40 Unobligated balance carried forward, start of year .....	68	71	71
22.00 New budget authority (gross) .....	93	122	96
22.10 Resources available from recoveries of prior year obligations .....	15		
23.90 Total budgetary resources available for obligation .....	176	193	167
23.95 Total new obligations .....	-105	-122	-96
24.40 Unobligated balance carried forward, end of year .....	71	71	71
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....		122	96
40.05 Appropriation (indefinite) .....	95		
40.35 Appropriation rescinded .....	-2		
43.00 Appropriation (total discretionary) .....	93	122	96
<b>Change in unpaid obligations:</b>			
Unpaid obligations, start of year:			
72.40 Unpaid obligations, start of year .....	29	86	93
72.99 Obligated balance, start of year .....	29	86	93
73.10 Total new obligations .....	105	122	96
73.20 Total outlays (gross) .....	-33	-115	-118

73.45	Recoveries of prior year obligations .....	- 15		
	Unpaid obligations, end of year:			
74.40	Unpaid obligations, end of year .....	86	93	71
74.99	Obligated balance, end of year .....	86	93	71
<b>Outlays (gross), detail:</b>				
86.90	Outlays from new discretionary authority .....	8	13	11
86.93	Outlays from discretionary balances .....	25	102	108
87.00	Total outlays (gross) .....	33	115	118
<b>Net budget authority and outlays:</b>				
89.00	Budget authority .....	93	122	96
90.00	Outlays .....	33	115	118

**Object Classification** (in millions of dollars)

Identification code 49-0551-0-1-251	2000 actual	2001 est.	2002 est.
25.5	Research and development contracts .....	29	14
41.0	Grants, subsidies, and contributions .....	76	108
99.9	Total new obligations .....	105	122

The major research equipment activity supports the construction and procurement of unique national research platforms and major research equipment. Performance is measured against established construction schedules, costs and milestones.

**SALARIES AND EXPENSES**

For salaries and expenses necessary in carrying out the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-1875); services authorized by 5 U.S.C. 3109; hire of passenger motor vehicles; not to exceed \$9,000 for official reception and representation expenses; uniforms or allowances therefor, as authorized by 5 U.S.C. 5901-5902; rental of conference rooms in the District of Columbia; reimbursement of the General Services Administration for security guard services; **[\$160,890,000] \$170,040,000: Provided,** That contracts may be entered into under "Salaries and expenses" in fiscal year **[2001] 2002** for maintenance and operation of facilities, and for other services, to be provided during the next fiscal year. (*Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 2001, as enacted by section 1(a)(1) of P.L. 106-377.*)

**Program and Financing** (in millions of dollars)

Identification code 49-0180-0-1-251	2000 actual	2001 est.	2002 est.
<b>Obligations by program activity:</b>			
00.01	Administration and management .....	149	161
09.01	Reimbursable programs .....	4	5
10.00	Total new obligations .....	153	166
<b>Budgetary resources available for obligation:</b>			
22.00	New budget authority (gross) .....	153	166
23.95	Total new obligations .....	- 153	- 166

**New budget authority (gross), detail:**

Discretionary:			
40.00	Appropriation .....	161	170
40.05	Appropriation (indefinite) .....	149	
43.00	Appropriation (total discretionary) .....	149	170
Spending authority from offsetting collections:			
68.00	Offsetting collections (cash) .....	4	5
68.54	Portion credited to expired accounts .....	- 1	
68.55	Portion of change in uncollected customer payments from Federal sources in expired accounts .....	1	
68.90	Spending authority from offsetting collections (total discretionary) .....	4	5
70.00	Total new budget authority (gross) .....	153	166

**Change in unpaid obligations:**

Unpaid obligations, start of year:			
72.40	Unpaid obligations, start of year .....	25	26

72.95	Uncollected customer payments from Federal sources, start of year .....	- 1	- 1	- 1
72.99	Obligated balance, start of year .....	24	25	18
73.10	Total new obligations .....	153	166	175
73.20	Total outlays (gross) .....	- 150	- 173	- 174
73.40	Adjustments in expired accounts (net) .....	- 2		
Unpaid obligations, end of year:				
74.40	Unpaid obligations, end of year .....	26	19	19
74.95	Uncollected customer payments from Federal sources, end of year .....	- 1	- 1	- 1
74.99	Obligated balance, end of year .....	25	18	18

**Outlays (gross), detail:**

86.90	Outlays from new discretionary authority .....	133	148	156
86.93	Outlays from discretionary balances .....	17	25	18
87.00	Total outlays (gross) .....	150	173	174

**Offsets:**

Against gross budget authority and outlays:				
88.00	Offsetting collections (cash) from: Federal sources .....	- 4	- 5	- 5

**Net budget authority and outlays:**

89.00	Budget authority .....	149	161	170
90.00	Outlays .....	146	168	169

This account provides funds to administer and manage NSF programs. NSF continually devises and refines performance measures for development and monitoring of programs.

**Object Classification** (in millions of dollars)

Identification code 49-0180-0-1-251	2000 actual	2001 est.	2002 est.
Direct obligations:			
Personnel compensation:			
11.1	Full-time permanent .....	71	76
11.3	Other than full-time permanent .....	13	14
11.5	Other personnel compensation .....	2	3
11.8	Special personal services payments .....	1	1
11.9	Total personnel compensation .....	87	94
12.1	Civilian personnel benefits .....	18	20
21.0	Travel and transportation of persons .....	4	4
23.1	Rental payments to GSA .....	15	17
23.3	Communications, utilities, and miscellaneous charges .....	3	3
25.1	Advisory and assistance services .....	1	1
25.2	Other services .....	4	5
25.3	Purchases of goods and services from Government accounts .....	2	1
25.7	Operation and maintenance of equipment .....	5	6
26.0	Supplies and materials .....	2	2
31.0	Equipment .....	8	8
99.0	Subtotal, direct obligations .....	149	161
99.0	Reimbursable obligations .....	4	5
99.9	Total new obligations .....	153	166

**Personnel Summary**

Identification code 49-0180-0-1-251	2000 actual	2001 est.	2002 est.
1001	Total compensable workyears: Full-time equivalent employment .....	1,153	1,150

**OFFICE OF INSPECTOR GENERAL**

For necessary expenses of the Office of Inspector General as authorized by the Inspector General Act of 1978, as amended, **[\$6,280,000] \$6,760,000**, to remain available until September 30, **[2002] 2003**. (*Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 2001, as enacted by section 1(a)(1) of P.L. 106-377.*)

General and special funds—Continued

OFFICE OF INSPECTOR GENERAL—Continued

Program and Financing (in millions of dollars)

Identification code 49-0300-0-1-251	2000 actual	2001 est.	2002 est.
<b>Obligations by program activity:</b>			
10.00 Total new obligations .....	6	6	7
<b>Budgetary resources available for obligation:</b>			
22.00 New budget authority (gross) .....	5	6	7
23.95 Total new obligations .....	-6	-6	-7
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....	5	6	7
<b>Change in unpaid obligations:</b>			
Unpaid obligations, start of year:			
72.40 Unpaid obligations, start of year .....	2	2	1
72.99 Obligated balance, start of year .....	2	2	1
73.10 Total new obligations .....	6	6	7
73.20 Total outlays (gross) .....	-5	-5	-6
Unpaid obligations, end of year:			
74.40 Unpaid obligations, end of year .....	2	1	1
74.99 Obligated balance, end of year .....	2	1	1
<b>Outlays (gross), detail:</b>			
86.90 Outlays from new discretionary authority .....	4	5	6
86.93 Outlays from discretionary balances .....	1	2	1
87.00 Total outlays (gross) .....	5	5	6
<b>Net budget authority and outlays:</b>			
89.00 Budget authority .....	5	6	7
90.00 Outlays .....	5	5	6

This appropriation provides agency-wide audit and investigative functions to identify and correct management and administrative deficiencies which create conditions for existing or potential instances of fraud, waste, and mismanagement consistent with the Inspector General Act of 1978, as amended (5 U.S.C. App. 3).

Object Classification (in millions of dollars)

Identification code 49-0300-0-1-251	2000 actual	2001 est.	2002 est.
11.1 Personnel compensation: Full-time permanent .....	4	4	5
12.1 Civilian personnel benefits .....	1	1	1
25.1 Advisory and assistance services .....	1	1	1
99.9 Total new obligations .....	6	6	7

Personnel Summary

Identification code 49-0300-0-1-251	2000 actual	2001 est.	2002 est.
1001 Total compensable workyears: Full-time equivalent employment .....	44	50	50

EDUCATION AND HUMAN RESOURCES

For necessary expenses in carrying out science and engineering education and human resources programs and activities pursuant to the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-1875), including services as authorized by 5 U.S.C. 3109, authorized travel, and rental of conference rooms in the District of Columbia, **[\$787,352,000] \$872,407,000**, to remain available until September 30, **[2002: Provided, That to the extent that the amount of this appropriation is less than the total amount authorized to be appropriated for included program activities, all amounts, including floors and ceilings, specified in the authorizing Act for those program activities or their subactivities shall be reduced proportionally: Provided further, That \$10,000,000 shall be available for the Office of Innovation Partnerships] 2003. (Departments of Veterans Affairs and Housing and Urban Development, and Independent Agen-**

cies Appropriations Act, 2001, as enacted by section 1(a)(1) of P.L. 106-377.)

Program and Financing (in millions of dollars)

Identification code 49-0106-0-1-251	2000 actual	2001 est.	2002 est.
<b>Obligations by program activity:</b>			
Obligations by program activity:			
Direct program:			
Appropriated activities:			
00.01 Educational system reform .....	113	110	45
00.02 EPSCoR .....	56	85	75
00.03 Elementary, secondary and informal education .....	186	202	166
00.04 Undergraduate education .....	117	141	133
00.05 Graduate education .....	79	88	95
00.06 Human resource development .....	77	91	90
00.07 Research, evaluation and communication .....	56	68	68
00.08 Math & Science Partnerships .....			200
00.91 Subtotal appropriated activities .....	684	785	872
H-1B non-immigrant petitioner fee activities:			
01.01 Scholarships for individuals (low-income students) .....	23	72	86
01.03 Systemic reform activities .....	2	49	58
01.91 Subtotal H-1B non-immigrant petitioner fee activities .....	25	121	144
02.00 Total direct obligations .....	709	906	1,016
09.01 Reimbursable programs .....	12	15	15
10.00 Total new obligations .....	721	921	1,031
<b>Budgetary resources available for obligation:</b>			
21.40 Unobligated balance carried forward, start of year .....	26	60	60
22.00 New budget authority (gross) .....	752	921	1,031
22.10 Resources available from recoveries of prior year obligations .....	5		
23.90 Total budgetary resources available for obligation .....	783	981	1,091
23.95 Total new obligations .....	-721	-921	-1,031
23.98 Unobligated balance expiring or withdrawn .....	-2		
24.40 Unobligated balance carried forward, end of year .....	60	60	60
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....		787	872
40.05 Appropriation (indefinite) .....	697		
40.35 Appropriation rescinded .....	-6		
40.77 Reduction pursuant to P.L. 106-554 (0.22 percent) .....		-2	
43.00 Appropriation (total discretionary) .....	691	785	872
Mandatory:			
60.25 Appropriation (special fund, indefinite) .....	49	121	144
Discretionary:			
68.00 Spending authority from offsetting collections: Offsetting collections (cash) .....	12	15	15
70.00 Total new budget authority (gross) .....	752	921	1,031
<b>Change in unpaid obligations:</b>			
Unpaid obligations, start of year:			
72.40 Unpaid obligations, start of year .....	941	1,048	1,194
72.99 Obligated balance, start of year .....	941	1,048	1,194
73.10 Total new obligations .....	721	921	1,031
73.20 Total outlays (gross) .....	-595	-775	-876
73.40 Adjustments in expired accounts (net) .....	-12		
73.45 Recoveries of prior year obligations .....	-5		
Unpaid obligations, end of year:			
74.40 Unpaid obligations, end of year .....	1,048	1,194	1,350
74.99 Obligated balance, end of year .....	1,048	1,194	1,350
<b>Outlays (gross), detail:</b>			
86.90 Outlays from new discretionary authority .....	89	117	128
86.93 Outlays from discretionary balances .....	506	599	653
86.97 Outlays from new mandatory authority .....		16	19
86.98 Outlays from mandatory balances .....		43	76
87.00 Total outlays (gross) .....	595	775	876
<b>Offsets:</b>			
Against gross budget authority and outlays:			
88.00 Offsetting collections (cash) from: Federal sources .....	-12	-15	-15

Net budget authority and outlays:				
89.00	Budget authority .....	740	906	1,016
90.00	Outlays .....	584	760	861

Education and human resources (EHR) activities provide a comprehensive set of programs that further NSF's goal of ensuring a diverse, internationally competitive and globally-engaged workforce of scientists, engineers and well-prepared citizens. At the pre-kindergarten through grade 12 (pre K-12) level, EHR catalyzes systemic reform of science, mathematics, engineering and technology (SMET) education in States, cities, school districts, and rural areas. Its pre K-12 programs provide new instructional materials and pedagogical techniques that incorporate the latest advances in teaching, learning, and educational technologies. They also provide enrichment activities for teachers and students. Undergraduate initiatives improve curricula in all SMET fields and lead reform efforts in mathematics, chemistry, and other disciplines. EHR programs strengthen laboratory course offerings and enhance faculty. Programs for advanced technological education strengthen education for students preparing to enter the high-technology workforce. Graduate level support is directed primarily to research and education fellowships and traineeships to guarantee the U.S. world leadership in science and technology. All EHR programming focuses on broadening participation of groups underrepresented in SMET fields including activities focused on the improvement of infrastructure and academic programs at minority-serving institutions. The Experimental Program to Stimulate Competitive Research (EPSCoR) broadens participation of States and regions in science and engineering by helping institutions expand their research capacity and competitiveness. EHR supports research that advances SMET education, as well as development and effective implementation of learning technologies. Evaluation and communications activities ensure accountability by developing indicators that measure program impact and inform the education community of best practices and relevant information. Also included within EHR are funds resulting from the collection and use of H-1B non-immigrant fees, for scholarships and private-public partnerships in K-12 education, enrichment courses, and systemic reform activities. This appropriation also supports NSF's active development of performance indicators.

**Object Classification** (in millions of dollars)

Identification code 49-0106-0-1-251				
	2000 actual	2001 est.	2002 est.	
Direct obligations:				
21.0	Travel and transportation of persons .....	2	3	3
25.1	Advisory and assistance services .....	17	22	24
41.0	Grants, subsidies, and contributions .....	689	881	989
99.0	Subtotal, direct obligations .....	708	906	1,016
99.0	Reimbursable obligations .....	12	15	15
99.5	Below reporting threshold .....	1		
99.9	Total new obligations .....	721	921	1,031

**Trust Funds**

**DONATIONS**

**Unavailable Collections** (in millions of dollars)

Identification code 49-8960-0-7-251				
	2000 actual	2001 est.	2002 est.	
01.99	Balance, start of year .....			

Receipts:				
02.00	Donations to the National Science Foundation .....	39	32	31
Appropriations:				
05.00	Donations .....	-39	-32	-31
07.99	Balance, end of year .....			

**Program and Financing** (in millions of dollars)

Identification code 49-8960-0-7-251				
	2000 actual	2001 est.	2002 est.	
<b>Obligations by program activity:</b>				
00.01	Ocean drilling programs .....	18	18	17
00.02	Gemini telescope .....	13	12	12
00.03	Other .....	1	2	2
10.00	Total new obligations .....	32	32	31
<b>Budgetary resources available for obligation:</b>				
21.40	Unobligated balance carried forward, start of year .....	14	21	21
22.00	New budget authority (gross) .....	39	32	31
23.90	Total budgetary resources available for obligation .....	53	53	52
23.95	Total new obligations .....	-32	-32	-31
24.40	Unobligated balance carried forward, end of year .....	21	21	21
<b>New budget authority (gross), detail:</b>				
Mandatory:				
60.27	Appropriation (trust fund, indefinite) .....	39	32	31
<b>Change in unpaid obligations:</b>				
Unpaid obligations, start of year:				
72.40	Unpaid obligations, start of year .....	13	9	9
72.99	Obligated balance, start of year .....	13	9	9
73.10	Total new obligations .....	32	32	31
73.20	Total outlays (gross) .....	-36	-32	-31
Unpaid obligations, end of year:				
74.40	Unpaid obligations, end of year .....	9	9	9
74.99	Obligated balance, end of year .....	9	9	9
<b>Outlays (gross), detail:</b>				
86.97	Outlays from new mandatory authority .....	13	32	31
86.98	Outlays from mandatory balances .....	23		
87.00	Total outlays (gross) .....	36	32	31
<b>Net budget authority and outlays:</b>				
89.00	Budget authority .....	39	32	31
90.00	Outlays .....	36	32	31

This account consists of contributions from foreign governments, organizations and individuals to fund various cooperative efforts in science, research and education. These efforts include major international projects, such as operation of the GEMINI telescope, and the NSF Ocean drilling program. Other smaller activities supported include cooperative research, joint seminars, exchange of senior scientists, short-term research development visits, international conferences, and support for certain special functions of NSF and the National Science Board. These funds are not otherwise available.

**Object Classification** (in millions of dollars)

Identification code 49-8960-0-7-251				
	2000 actual	2001 est.	2002 est.	
25.4	Operation and maintenance of facilities .....	17	17	16
41.0	Grants, subsidies, and contributions .....	15	15	15
99.9	Total new obligations .....	32	32	31