

# NATIONAL SCIENCE FOUNDATION

## Federal 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; maintenance and operation of aircraft and purchase of flight services for research support; acquisition of aircraft; and authorized travel; **[\$4,821,474,000,] \$5,593,990,000**, to remain available until September 30, **[2009] 2010**, of which not to exceed **[\$510,000,000] \$540,000,000** 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; *Provided*, That from funds specified in the fiscal year **[2008] 2009** budget request for icebreaking services, up to **[\$57,000,000] \$54,000,000** shall be available for the procurement of polar icebreaking services; *Provided further*, That the National Science Foundation shall only reimburse the Coast Guard for such sums as are agreed to according to the existing memorandum of agreement; *Provided further*, That \$2,240,000 shall be transferred to the “Office of Science and Technology Policy” for costs associated with the Science and Technology Policy Institute/RaDiUS; *Provided further*, 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. (*Science Appropriations Act, 2008.*)

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

Identification code 49–0100–0–1–999	2007 actual	2008 est.	2009 est.
<b>Obligations by program activity:</b>			
00.01 Biological sciences .....	609	612	675
00.02 Computer and information science and engineering .....	527	535	639
00.03 Engineering .....	630	637	759
00.05 Geosciences .....	746	753	849
00.06 Mathematical and physical sciences .....	1,151	1,167	1,403
00.07 Social, behavioral and economic sciences .....	215	215	233
00.08 Office of International Science and Engineering .....	40	47	47
00.09 U.S. polar research programs .....	370	375	423
00.10 U.S. Antarctic logistical support activities .....	68	68	68
00.11 Integrative activities .....	117	233	276
00.12 Office of Cyberinfrastructure .....	182	185	220
00.13 Arctic Research Commission .....	1	1	2
09.01 Reimbursable programs .....	93	120	120
10.00 Total new obligations .....	4,749	4,948	5,714
<b>Budgetary resources available for obligation:</b>			
21.40 Unobligated balance carried forward, start of year .....	4	23	.....
22.00 New budget authority (gross) .....	4,765	4,925	5,714
22.10 Resources available from recoveries of prior year obligations .....	4	.....	.....
23.90 Total budgetary resources available for obligation .....	4,773	4,948	5,714
23.95 Total new obligations .....	–4,749	–4,948	–5,714
23.98 Unobligated balance expiring or withdrawn .....	–1	.....	.....
24.40 Unobligated balance carried forward, end of year .....	23	.....	.....
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....	4,667	4,822	5,594
40.36 Unobligated balance permanently reduced .....	.....	–17	.....
42.00 Transferred from other accounts .....	5	.....	.....
43.00 Appropriation (total discretionary) .....	4,672	4,805	5,594
Spending authority from offsetting collections:			
58.00 Offsetting collections (cash) .....	122	120	120
58.10 Change in uncollected customer payments from Federal sources (unexpired) .....	–29	.....	.....
58.90 Spending authority from offsetting collections (total discretionary) .....	93	120	120

70.00 Total new budget authority (gross) .....	4,765	4,925	5,714
<b>Change in obligated balances:</b>			
72.40 Obligated balance, start of year .....	5,653	6,143	6,200
73.10 Total new obligations .....	4,749	4,948	5,714
73.20 Total outlays (gross) .....	–4,287	–4,891	–5,104
73.40 Adjustments in expired accounts (net) .....	–21	.....	.....
73.45 Recoveries of prior year obligations .....	–4	.....	.....
74.00 Change in uncollected customer payments from Federal sources (unexpired) .....	29	.....	.....
74.10 Change in uncollected customer payments from Federal sources (expired) .....	24	.....	.....
74.40 Obligated balance, end of year .....	6,143	6,200	6,810
<b>Outlays (gross), detail:</b>			
86.90 Outlays from new discretionary authority .....	805	1,403	1,617
86.93 Outlays from discretionary balances .....	3,482	3,488	3,487
87.00 Total outlays (gross) .....	4,287	4,891	5,104
<b>Offsets:</b>			
Against gross budget authority and outlays:			
Offsetting collections (cash) from:			
88.00 Federal sources .....	–145	–120	–120
88.40 Non-Federal sources .....	–1	.....	.....
88.90 Total, offsetting collections (cash) .....	–146	–120	–120
Against gross budget authority only:			
88.95 Change in uncollected customer payments from Federal sources (unexpired) .....	29	.....	.....
88.96 Portion of offsetting collections (cash) credited to expired accounts .....	24	.....	.....
<b>Net budget authority and outlays:</b>			
89.00 Budget authority .....	4,672	4,805	5,594
90.00 Outlays .....	4,141	4,771	4,984

The Research and Related Activities appropriation enables the United States to provide leadership and promote progress across the expanding frontiers of scientific and engineering research and education. This appropriation represents the National Science Foundation’s (NSF’s) primary contribution to the President’s American Competitiveness Initiative. This appropriation provides resources for NSF to achieve the following strategic outcome goals: Discovery—fostering research that will advance the frontiers of knowledge, emphasizing areas of greatest opportunity and potential benefit and establishing the Nation as a global leader in fundamental and transformational science and engineering; Learning—cultivating a world-class, broadly inclusive science and engineering workforce and expanding the scientific literacy of all citizens; and Research Infrastructure—building the Nation’s research capability through critical investments in advanced instrumentation, facilities, cyberinfrastructure, and experimental tools. Research activities will contribute to the achievement of these goals by advancing discovery, innovation, and education beyond the frontiers of current knowledge and empowering future generations in science and engineering. This appropriation supports NSF’s active development of performance indicators.

The major research program activities of NSF are:

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

**Computer and information science and engineering.**—Research is directed at “information technology” in the broadest

RESEARCH AND RELATED ACTIVITIES—Continued

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 that 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 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, education, and infrastructure in the social, behavioral, cognitive, and economic sciences and funds the collection and dissemination of statistics on the science and engineering enterprise.

**Office of International Science and Engineering.**—This activity promotes an integrated strategy for international science and engineering which complements and enhances NSF's broader research and education goals and which facilitates international collaboration.

**U.S. polar research programs.**—This activity supports Arctic and Antarctic research and operational science support and other related activities for United States polar research programs.

**U.S. Antarctic logistical support activities.**—This activity provides funding to reimburse Federal agencies for logistical and other related activities supported by 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. The Experimental Program to Stimulate Competitive Research broadens participation of States and regions in science and engineering by helping institutions expand their research capacity and competitiveness.

**Office of Cyberinfrastructure.**—This activity supports acquisitions, operations, and upgrades of cyberinfrastructure in support of the Nation's science and engineering research and education community.

The United States Arctic Research Commission promotes Arctic research and recommends national Arctic research policies to guide Federal agencies in developing and implementing their research programs in the Arctic region.

Object Classification (in millions of dollars)

Identification code 49-0100-0-1-999	2007 actual	2008 est.	2009 est.
<b>Direct obligations:</b>			
21.0 Travel and transportation of persons .....	13	13	13
25.1 Advisory and assistance services .....	50	50	50
25.2 Other services .....	2	2	2
25.3 Other purchases of goods and services from Government accounts .....	10	10	10
25.4 Operation and maintenance of facilities .....	36	36	36
25.5 Research and development contracts .....	9	9	9
31.0 Equipment .....	2	2	2
41.0 Grants, subsidies, and contributions .....	4,534	4,706	5,472
99.0 Direct obligations .....	4,656	4,828	5,594
99.0 Reimbursable obligations .....	93	120	120
99.9 Total new obligations .....	4,749	4,948	5,714

Employment Summary

Identification code 49-0100-0-1-999	2007 actual	2008 est.	2009 est.
Direct:			

1001 Civilian full-time equivalent employment .....	4	4	4
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MAJOR RESEARCH EQUIPMENT AND FACILITIES CONSTRUCTION

For necessary expenses for the acquisition, construction, commissioning, and upgrading of major research equipment, facilities, and other such capital assets pursuant to the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-1875), including authorized travel, **[\$220,740,000] \$147,510,000**, to remain available until expended: *Provided, That funds may be utilized for design, subject to the approval of the Director of the National Science Foundation in consultation with the National Science Board. (Science Appropriations Act, 2008.)*

Program and Financing (in millions of dollars)

Identification code 49-0551-0-1-251	2007 actual	2008 est.	2009 est.
<b>Obligations by program activity:</b>			
00.01 Direct program activity .....	166	233	148
10.00 Total new obligations .....	166	233	148
<b>Budgetary resources available for obligation:</b>			
21.40 Unobligated balance carried forward, start of year	3	28	
22.00 New budget authority (gross) .....	191	205	148
23.90 Total budgetary resources available for obligation	194	233	148
23.95 Total new obligations .....	-166	-233	-148
24.40 Unobligated balance carried forward, end of year	28		
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....	191	221	148
40.36 Unobligated balance permanently reduced .....		-16	
43.00 Appropriation (total discretionary) .....	191	205	148
<b>Change in obligated balances:</b>			
72.40 Obligated balance, start of year .....	264	222	266
73.10 Total new obligations .....	166	233	148
73.20 Total outlays (gross) .....	-208	-189	-191
74.40 Obligated balance, end of year .....	222	266	223
<b>Outlays (gross), detail:</b>			
86.90 Outlays from new discretionary authority .....	29	31	22
86.93 Outlays from discretionary balances .....	179	158	169
87.00 Total outlays (gross) .....	208	189	191
<b>Net budget authority and outlays:</b>			
89.00 Budget authority .....	191	205	148
90.00 Outlays .....	208	189	191

The Major Research Equipment and Facilities Construction activity supports the construction and procurement of unique national research platforms and major research equipment. In rare cases, pre-construction final design activities may also be undertaken. Performance is measured against established construction schedules, costs, and milestones.

Object Classification (in millions of dollars)

Identification code 49-0551-0-1-251	2007 actual	2008 est.	2009 est.
<b>Direct obligations:</b>			
25.5 Research and development contracts .....	43	43	43
41.0 Grants, subsidies, and contributions .....	123	190	105
99.9 Total new obligations .....	166	233	148

AGENCY OPERATIONS AND AWARD MANAGEMENT

For agency operations and award management 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; and reimbursement of the [General Services Administration] Department of Homeland Security for security guard services; **[\$281,790,000] \$305,060,000: Provided,** That contracts may be entered into under this heading in fiscal year **[2008] 2009** for maintenance and operation of facilities, and for other services, to be provided during the next fiscal year. (*Science Appropriations Act, 2008.*)

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

Identification code 49–0180–0–1–251	2007 actual	2008 est.	2009 est.
<b>Obligations by program activity:</b>			
00.01 Administration and management .....	248	282	305
09.01 Reimbursable programs .....	5	10	10
10.00 Total new obligations .....	253	292	315
<b>Budgetary resources available for obligation:</b>			
22.00 New budget authority (gross) .....	253	292	315
23.95 Total new obligations .....	–253	–292	–315
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....	248	282	305
Spending authority from offsetting collections:			
58.00 Offsetting collections (cash) .....	4	10	10
58.10 Change in uncollected customer payments from Federal sources (unexpired) .....	1		
58.90 Spending authority from offsetting collections (total discretionary) .....	5	10	10
70.00 Total new budget authority (gross) .....	253	292	315
<b>Change in obligated balances:</b>			
72.40 Obligated balance, start of year .....	50	49	29
73.10 Total new obligations .....	253	292	315
73.20 Total outlays (gross) .....	–252	–312	–312
73.40 Adjustments in expired accounts (net) .....	–1		
74.00 Change in uncollected customer payments from Federal sources (unexpired) .....	–1		
74.40 Obligated balance, end of year .....	49	29	32
<b>Outlays (gross), detail:</b>			
86.90 Outlays from new discretionary authority .....	210	262	282
86.93 Outlays from discretionary balances .....	42	50	30
87.00 Total outlays (gross) .....	252	312	312
<b>Offsets:</b>			
Against gross budget authority and outlays:			
88.00 Offsetting collections (cash) from: Federal sources Against gross budget authority only:	–4	–10	–10
88.95 Change in uncollected customer payments from Federal sources (unexpired) .....	–1		
<b>Net budget authority and outlays:</b>			
89.00 Budget authority .....	248	282	305
90.00 Outlays .....	248	302	302

This account provides funds to administer and manage NSF programs and to advance NSF's strategic goal of Stewardship—supporting excellence in science and engineering research and education through a capable and responsive organization. NSF continually develops and refines performance measures for development and monitoring of programs.

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

Identification code 49–0180–0–1–251	2007 actual	2008 est.	2009 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent .....	112	123	133
11.3 Other than full-time permanent .....	12	12	12
11.5 Other personnel compensation .....	6	6	7
11.8 Special personal services payments .....		1	2
11.9 Total personnel compensation .....	130	142	154
12.1 Civilian personnel benefits .....	30	36	37

21.0 Travel and transportation of persons .....	6	9	11
23.1 Rental payments .....	22	24	25
23.3 Communications, utilities, and miscellaneous charges .....	5	1	1
25.1 Advisory and assistance services .....	40	13	14
25.2 Other services .....	9	9	11
25.3 Other purchases of goods and services from Government accounts .....	1	3	4
25.6 Medical care .....		1	1
25.7 Operation and maintenance of equipment .....		28	34
26.0 Supplies and materials .....	2	3	3
31.0 Equipment .....	2	13	10
41.0 Grants, subsidies, and contributions .....	1		
99.0 Direct obligations .....	248	282	305
99.0 Reimbursable obligations .....	5	10	10
99.9 Total new obligations .....	253	292	315

**Employment Summary**

Identification code 49–0180–0–1–251	2007 actual	2008 est.	2009 est.
Direct:			
1001 Civilian full-time equivalent employment .....	1,228	1,280	1,320

**OFFICE OF THE NATIONAL SCIENCE BOARD**

For necessary expenses (including payment of salaries, authorized travel, hire of passenger motor vehicles, the rental of conference rooms in the District of Columbia, and the employment of experts and consultants under section 3109 of title 5, United States Code) involved in carrying out section 4 of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1863) and Public Law 86–209 (42 U.S.C. 1880 et seq.), **[\$3,969,000] \$4,030,000: Provided,** That not to exceed **[\$9,000] \$2,500** shall be available for official reception and representation expenses. (*Science Appropriations Act, 2008.*)

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

Identification code 49–0350–0–1–251	2007 actual	2008 est.	2009 est.
<b>Obligations by program activity:</b>			
00.01 Direct program activity .....	4	4	4
10.00 Total new obligations .....	4	4	4
<b>Budgetary resources available for obligation:</b>			
22.00 New budget authority (gross) .....	4	4	4
23.95 Total new obligations .....	–4	–4	–4
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....	4	4	4
<b>Change in obligated balances:</b>			
72.40 Obligated balance, start of year .....	2	2	
73.10 Total new obligations .....	4	4	4
73.20 Total outlays (gross) .....	–4	–6	–4
74.40 Obligated balance, end of year .....	2		
<b>Outlays (gross), detail:</b>			
86.90 Outlays from new discretionary authority .....	3	4	4
86.93 Outlays from discretionary balances .....	1	2	
87.00 Total outlays (gross) .....	4	6	4
<b>Net budget authority and outlays:</b>			
89.00 Budget authority .....	4	4	4
90.00 Outlays .....	4	6	4

This appropriation provides policy-making and related responsibilities for NSF and provides guidance on significant national policy issues in science and engineering research and education, as required by law.

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

Identification code 49–0350–0–1–251	2007 actual	2008 est.	2009 est.
Direct obligations:			

OFFICE OF THE NATIONAL SCIENCE BOARD—Continued

Object Classification (in millions of dollars)—Continued

Identification code 49-0350-0-1-251	2007 actual	2008 est.	2009 est.
11.1 Personnel compensation: Full-time permanent .....	2	2	2
25.1 Advisory and assistance services .....	1	1	1
25.2 Other services .....	1	1	1
99.9 Total new obligations .....	4	4	4

Employment Summary

Identification code 49-0350-0-1-251	2007 actual	2008 est.	2009 est.
Direct:			
1001 Civilian full-time equivalent employment .....	15	14	14

OFFICE OF INSPECTOR GENERAL

For necessary expenses of the Office of Inspector General as authorized by the Inspector General Act of 1978, as amended, **[\$11,427,000]** \$13,100,000, to remain available until September 30, **[2009] 2010.** (Science Appropriations Act, 2008.)

Program and Financing (in millions of dollars)

Identification code 49-0300-0-1-251	2007 actual	2008 est.	2009 est.
<b>Obligations by program activity:</b>			
00.01 Direct program activity .....	12	11	13
10.00 Total new obligations .....	12	11	13
<b>Budgetary resources available for obligation:</b>			
21.40 Unobligated balance carried forward, start of year .....	1		
22.00 New budget authority (gross) .....	11	11	13
23.90 Total budgetary resources available for obligation .....	12	11	13
23.95 Total new obligations .....	-12	-11	-13
24.40 Unobligated balance carried forward, end of year .....			
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....	11	11	13
<b>Change in obligated balances:</b>			
72.40 Obligated balance, start of year .....	4	5	2
73.10 Total new obligations .....	12	11	13
73.20 Total outlays (gross) .....	-11	-14	-12
74.40 Obligated balance, end of year .....	5	2	3
<b>Outlays (gross), detail:</b>			
86.90 Outlays from new discretionary authority .....	9	10	11
86.93 Outlays from discretionary balances .....	2	4	1
87.00 Total outlays (gross) .....	11	14	12
<b>Net budget authority and outlays:</b>			
89.00 Budget authority .....	11	11	13
90.00 Outlays .....	11	14	12

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	2007 actual	2008 est.	2009 est.
Direct obligations:			
11.1 Personnel compensation: Full-time permanent .....	7	7	7
12.1 Civilian personnel benefits .....	2	2	2
25.2 Other services .....	3	2	4
99.9 Total new obligations .....	12	11	13

Employment Summary

Identification code 49-0300-0-1-251	2007 actual	2008 est.	2009 est.
Direct:			
1001 Civilian full-time equivalent employment .....	67	63	64

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, **[\$725,600,000]** \$790,410,000, to remain available until September 30, **[2009] 2010.** (Science Appropriations Act, 2008.)

Program and Financing (in millions of dollars)

Identification code 49-0106-0-1-251	2007 actual	2008 est.	2009 est.
<b>Obligations by program activity:</b>			
00.01 EPSCoR .....	102		
00.03 Undergraduate education .....	205	211	220
00.04 Graduate education .....	156	160	191
00.05 Human resource development .....	126	141	153
00.08 Research on learning in formal and informal settings .....	209	214	226
00.91 Subtotal appropriated activities .....	798	726	790
01.01 Low income scholarship program .....	100	127	75
01.02 Private-public partnerships in K-12 .....	46	37	25
01.91 Subtotal H-1B non-immigrant petitioner fee activities .....	146	164	100
02.00 Total direct obligations .....	944	890	890
09.01 Reimbursable programs .....	8	10	10
10.00 Total new obligations .....	952	900	900
<b>Budgetary resources available for obligation:</b>			
21.40 Unobligated balance carried forward, start of year .....	98	64	
22.00 New budget authority (gross) .....	913	836	900
22.10 Resources available from recoveries of prior year obligations .....	5		
23.90 Total budgetary resources available for obligation .....	1,016	900	900
23.95 Total new obligations .....	-952	-900	-900
24.40 Unobligated balance carried forward, end of year .....	64		
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....	797	726	790
Spending authority from offsetting collections:			
58.00 Offsetting collections (cash) .....	8	10	10
58.10 Change in uncollected customer payments from Federal sources (unexpired) .....	1		
58.90 Spending authority from offsetting collections (total discretionary) .....	9	10	10
Mandatory:			
60.20 Appropriation (special fund) .....	107	100	100
70.00 Total new budget authority (gross) .....	913	836	900
<b>Change in obligated balances:</b>			
72.40 Obligated balance, start of year .....	1,641	1,663	1,626
73.10 Total new obligations .....	952	900	900
73.20 Total outlays (gross) .....	-920	-937	-908
73.40 Adjustments in expired accounts (net) .....	-7		
73.45 Recoveries of prior year obligations .....	-5		
74.00 Change in uncollected customer payments from Federal sources (unexpired) .....	-1		
74.10 Change in uncollected customer payments from Federal sources (expired) .....	3		
74.40 Obligated balance, end of year .....	1,663	1,626	1,618
<b>Outlays (gross), detail:</b>			
86.90 Outlays from new discretionary authority .....	120	90	97
86.93 Outlays from discretionary balances .....	748	699	683
86.97 Outlays from new mandatory authority .....	12	11	11
86.98 Outlays from mandatory balances .....	40	137	117

87.00	Total outlays (gross) .....	920	937	908
<b>Offsets:</b>				
Against gross budget authority and outlays:				
88.00	Offsetting collections (cash) from: Federal sources .....	-11	-10	-10
Against gross budget authority only:				
88.95	Change in uncollected customer payments from Federal sources (unexpired) .....	-1		
88.96	Portion of offsetting collections (cash) credited to expired accounts .....	3		
<b>Net budget authority and outlays:</b>				
89.00	Budget authority .....	904	826	890
90.00	Outlays .....	909	927	898

Education and Human Resources (EHR) activities provide a comprehensive set of programs that further NSF's goal of ensuring a diverse, competitive, and globally engaged U.S. science, technology, engineering, and mathematics (STEM) workforce, as well as scientifically literate citizens. At the pre-kindergarten through grade 12 (pre-K-12) levels, EHR catalyzes reform of STEM education through the development of public-private partnerships. Its pre-K-12 programs provide new instructional materials for students and teachers that incorporate the latest advances in teaching, learning, and educational technologies; growth in the knowledge base; and teacher education opportunities that support the full continuum of STEM teacher education from pre-service and in-service, through life-long learning. Undergraduate programs improve curricula, strengthen laboratory course offerings, enhance faculty, and lead reform efforts in STEM disciplines. Programs for advanced technological education strengthen education for students preparing to enter the high-technology workforce. Graduate level support is directed primarily to fellowships and traineeships to sustain the U.S. world leadership in science and technology. All EHR programming focuses on broadening participation of groups underrepresented in STEM fields including activities focused on the improvement of infrastructure and academic programs at minority-serving institutions. EHR supports education research that advances our knowledge of how people learn in the STEM disciplines; it also supports the development and effective implementation of learning technologies. Evaluation and communication activities ensure accountability by developing indicators that measure program impact and inform the education community of best practices and relevant information. EHR activities also include programs supported by H-1B non-immigrant visa fees. These programs provide undergraduate and graduate scholarships in STEM fields, support for private-public partnerships in K-12, and support for STEM education by providing research opportunities for STEM teachers and students in grades 7-12. EHR's funding also supports NSF's active development of performance indicators.

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

Identification code 49-0106-0-1-251	2007 actual	2008 est.	2009 est.	
<b>Direct obligations:</b>				
21.0	Travel and transportation of persons .....	3	3	2
25.1	Advisory and assistance services .....	16	16	21
41.0	Grants, subsidies, and contributions .....	925	871	867
99.0	Direct obligations .....	944	890	890
99.0	Reimbursable obligations .....	8	10	10
99.9	Total new obligations .....	952	900	900

**Trust Funds**

**DONATIONS**

**Special and Trust Fund Receipts** (in millions of dollars)

Identification code 49-8960-0-7-251	2007 actual	2008 est.	2009 est.	
01.00	Balance, start of year .....	1	1	1
01.99	Balance, start of year .....	1	1	1
<b>Receipts:</b>				
02.60	Donations, National Science Foundation .....	41	25	25
04.00	Total: Balances and collections .....	42	26	26
<b>Appropriations:</b>				
05.00	Donations .....	-41	-25	-25
07.99	Balance, end of year .....	1	1	1

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

Identification code 49-8960-0-7-251	2007 actual	2008 est.	2009 est.	
<b>Obligations by program activity:</b>				
00.01	Ocean drilling programs .....	12	27	10
00.02	Gemini telescope .....	16	29	15
10.00	Total new obligations .....	28	56	25
<b>Budgetary resources available for obligation:</b>				
21.40	Unobligated balance carried forward, start of year .....	18	31	
22.00	New budget authority (gross) .....	41	25	25
23.90	Total budgetary resources available for obligation .....	59	56	25
23.95	Total new obligations .....	-28	-56	-25
24.40	Unobligated balance carried forward, end of year .....	31		
<b>New budget authority (gross), detail:</b>				
Mandatory:				
60.26	Appropriation (trust fund) .....	41	25	25
<b>Change in obligated balances:</b>				
72.40	Obligated balance, start of year .....	6	24	31
73.10	Total new obligations .....	28	56	25
73.20	Total outlays (gross) .....	-10	-49	-25
74.40	Obligated balance, end of year .....	24	31	31
<b>Outlays (gross), detail:</b>				
86.97	Outlays from new mandatory authority .....	10	25	25
86.98	Outlays from mandatory balances .....		24	
87.00	Total outlays (gross) .....	10	49	25
<b>Net budget authority and outlays:</b>				
89.00	Budget authority .....	41	25	25
90.00	Outlays .....	10	49	25

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	2007 actual	2008 est.	2009 est.	
<b>Direct obligations:</b>				
25.4	Operation and maintenance of facilities .....	6	6	9
41.0	Grants, subsidies, and contributions .....	22	50	16
99.9	Total new obligations .....	28	56	25

**GENERAL FUND RECEIPT ACCOUNT**

(in millions of dollars)

	2007 actual	2008 est.	2009 est.
Offsetting receipts from the public:			
49-322000 All Other General Fund Proprietary Receipts			
Including Budget Clearing Accounts .....	2	2	2
General Fund Offsetting receipts from the public .....	2	2	2