# **TECHNICAL INFORMATION**

### FY 2005 Appropriation Language

### **National Science Foundation**

### **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; and acquisition of aircraft; \$4,452,310,000, of which not to exceed \$350,000,000 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, 2006; *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.

### **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, and rental of conference rooms in the District of Columbia, \$771,360,000, to remain available until September 30, 2006.

### 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, including authorized travel, \$213,270,000, to remain available until expended.

### 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; and reimbursement of the General Services Administration for security guard services; \$294,000,000: *Provided*, That contracts may be entered into under "Salaries and Expenses" in fiscal year 2005 for maintenance and operation of facilities, and for other services, to be provided during the next fiscal year.

### **OFFICE OF INSPECTOR GENERAL**

For necessary expenses of the Office of Inspector General as authorized by the Inspector General Act of 1978, as amended \$10,110,000, to remain available until September 30, 2006.

### 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 and Public Law 86-209, \$3,950,000: Provided, That not more than \$9,000 shall be available for official reception and representation expenses.

#### SUMMARY OF FY 2005 BUDGET BY APPROPRIATION AND ACTIVITY (DOLLARS IN THOUSANDS)

				CHA	NGE
	FY 2003	FY 2004	FY 2005	FY 2005 Req/FY	2004 Estimate
	APPROPRIATION	ESTIMATE	REQUEST	AMOUNT	PERCENT
RESEARCH AND RELATED ACTIVITIES					
Biological Sciences	\$570,490	\$586,890	\$599,930	\$13,040	2.2%
Computer and Information Science and Engineering	589,291	604,650	618,050	13,400	2.2%
Engineering	541,702	565,130	575,900	10,770	1.9%
Geosciences	691,836	713,100	728,500	15,400	2.2%
Mathematical and Physical Sciences	1,040,697	1,091,510	1,115,500	23,990	2.2%
Social, Behavioral and Economic Sciences	198,599	203,790	224,710	20,920	10.3%
Office of International Science and Engineering <sup>1</sup>	39,073	28,120	34,040	5,920	21.1%
U.S. Polar Research Programs	255,407	274,080	281,660	7,580	2.8%
U.S. Antarctic Logistical Support Activities	68,552	68,070	68,070	0	0.0%
Integrative Activities	97,859	144,140	239,990	95,850	66.5%
Subtotal R&RA	\$4,054,433	\$4,251,360	\$4,452,310	\$206,870	4.9%
Unobligated Balance Available Start of Year	-3,015				
Unobligated Balance Available End of Year	28,422				
Recoveries of Prior Year Obligations	-12,593				
Adjustments to Prior Year Accounts	5				
Unobligated Balance Lapsing	2,036				
Reduction Pursuant to P.L. 108-7	26,540				
Subtotal R&RA	\$4,095,828	\$4,251,360	\$4,452,310	\$206,870	4.9%
Transferred from other funds	(12,828)				
Appropriation Total	\$4,083,000	\$4,251,360	\$4,452,310	\$206,870	4.9%
EDUCATION AND HUMAN RESOURCES					
Math and Science Partnerships	\$144,070	\$139,170	\$0	-139,170	-100.0%
EPSCoR	89,210	94,440	84,000	-10,440	-11.1%
Elementary, Secondary and Informal Education	223,300	212,260	172,750	-39,510	-18.6%
Undergraduate Education	172,550	155,500	158,850	3,350	2.2%
Graduate Education	139,500	155,950	173,880	17,930	11.5%
Human Resource Development	99,480	115,850	107,940	-7,910	-6.8%
Research, Evaluation and Communication	66,770	65,810	73,940	8,130	12.4%
Subtotal EHR	\$934,879	\$938,980	\$771,360	-\$167,620	-17.9%
H-1B Nonimmigrant Petitioner Receipts	46,571	0	0	0	0.0%
Subtotal EHR	\$981,450	\$938,980	\$771,360	-167,620	-17.9%
Unobligated Balance Available Start of Year	-29,198				
Unobligated Balance Available End of Year	5,001				
Recoveries of Prior Year Obligations	-8,550				
Adjustments to Prior Year Accounts	-10				
Unobligated Balance Lapsing	1,049				
H-1B Nonimmigrant Petitioner Receipts	-46,571	0	0	0	0.0%
D 1 D DI 100.7	5,909				
Reduction Pursuant to P.L. 108-7	5,707				

### SUMMARY OF FY 2005 BUDGET BY APPROPRIATION AND ACTIVITY

(DOLLARS IN THOUSANDS)

				СНА	NGE
	FY 2003	FY 2004	FY 2005	FY 2005 Req/FY	
MAJOR RESEARCH EQUIPMENT & FACILITIES	APPROPRIATION	ESTIMATE	REQUEST	AMOUNT	PERCENT
MAJOK RESEARCH EQUITMENT & FACILITIES CONSTRUCTION	\$179,029	\$154,970	\$213,270	\$58,300	37.6%
Unobligated Balance Available Start of Year	-96,551				
Unobligated Balance Available End of Year	66,108				
Recoveries of Prior Year Obligations	-48				
Adjustments to Prior Year Accounts	0				
Reduction Pursuant to P.L. 108-7	972				
Appropriation Total	\$149,510	\$154,970	\$213,270	\$58,300	37.6%
SALARIES AND EXPENSES <sup>1</sup>	\$189,423	\$218,700	\$294,000	\$75,300	34.4%
Unobligated Balance Available Start of Year	0	,		, ,	
Unobligated Balance Available End of Year	0				
Adjustments to Prior Year Accounts	0				
Unobligated Balance Lapsing	7				
Reduction Pursuant to P.L. 108-7	1,237				
Subtotal, S&E	\$190,667	\$218,700	\$294,000	\$75,300	34.4%
Transferred from other funds	-315	\$210,700	\$251,000	\$75,500	51170
Appropriation Total	\$190,352	\$218,700	\$294,000	\$75,300	34.4%
NATIONAL SCIENCE BOARD	\$2,876	\$3,880	\$3,950	\$70	1.8%
Unobligated Balanced Available Start of Year	0				
Unobligated Balanced Available End of Year	0				
Recoveries of Prior Year Obligations	0				
Adjustments to Prior Year Accounts	0				
Unobligated Balance Lapsing	601				
Reduction Pursuant to P.L. 108-7	23				
Appropriation Total	\$3,500	\$3,880	\$3,950	\$70	1.8%
OFFICE OF INSPECTOR GENERAL	\$8,697	\$9,940	\$10,110	\$170	1.7%
Unobligated Balanced Available Start of Year	-137				
Unobligated Balanced Available End of Year	646				
Recoveries of Prior Year Obligations	-27				
Adjustments to Prior Year Accounts	0				
Unobligated Balance Lapsing	11				
Reduction Pursuant to P.L. 108-7	60				
Appropriation Total	\$9,250	\$9,940	\$10,110	\$170	1.7%
TOTAL, NATIONAL SCIENCE FOUNDATION	\$5,344,693	\$5,577,830	\$5,745,000	\$173,090	3.1%

Totals may not add due to rounding.

<sup>1</sup> FY 2003 includes an Appropriations Transfer from the Department of State in the amount of \$13.14 million for an award to the U.S. Civilian Research and Development Foundation.

	(Dollars in Thousand	s)			
PROGRAM	FY 2003 ACTUAL	FY 2004 ESTIMATE	FY 2005 REQUEST	CHAN FY 2005 Req/FY AMOUNT	
BIOLOGICAL SCIENCES					
MOLECULAR AND CELLULAR BIOSCIENCES					
Molecular & Cellular Biosciences Research	\$121,891	\$121,770	\$124,980	\$3,210	2.6%
Total	121,891	121,770	124,980	3,210	2.6%
INTEGRATIVE BIOLOGY AND NEUROSCIENCE					
Integrative Biology & Neuroscience Research	107,470	107,410	110,630	3,220	3.0%
Total	107,470	107,410	110,630	3,220	3.0%
ENVIRONMENTAL BIOLOGY					
Environmental Biology Research	108,276	108,260	111,480	3,220	3.0%
Total	108,276	108,260	111,480	3,220	3.0%
BIOLOGICAL INFRASTRUCTURE					
Research Resources	42,410	48,630	51,380	2,750	5.7%
Human Resources	32,620	31,590	34,090	2,500	7.9%
Total	75,030	80,220	85,470	5,250	6.5%
EMERGING FRONTIERS					
Emerging Frontiers	73,373	79,760	77,900	-1,860	-2.3%
Total	73,373	79,760	77,900	-1,860	-2.3%
PLANT GENOME RESEARCH					
Plant Genome Research	84,450	89,470	89,470	0	0.0%
Total	84,450	89,470	89,470	0	0.0%
Total, BIO	\$570,490	\$586,890	\$599,930	\$13,040	2.2%

	(Dollars in Thousands)				
PROGRAM	FY 2003 ACTUAL	FY 2004 ESTIMATE	FY 2005 REQUEST	CHAN FY 2005 Req/FY 2 AMOUNT	
COMPUTER AND INFORMATION SCIENCE AND ENG	<u>SINEERING</u>				
COMPUTER & NETWORK SYSTEMS					
Computer & Network Systems	\$117,150	\$114,930	\$132,390	\$17,460	15.2%
Total	117,150	114,930	132,390	17,460	15.2%
COMPUTING & COMMUNICATION FOUNDATIONS					
Computing & Communication Foundations	81,150	78,930	91,410	12,480	15.8%
Total	81,150	78,930	91,410	12,480	15.8%
INFORMATION & INTELLIGENT SYSTEMS					
Information & Intelligent Systems	82,150	,	92,540	12,490	
Total	82,150	80,050	92,540	12,490	15.6%
SHARED CYBERINFRASTRUCTURE	05.071	112 (20)	122 (00	10.070	0.7%
Shared Cyberinfrastructure	95,071	112,630	123,600	10,970	9.7%
Total	95,071	112,630	123,600	10,970	9.7%
INFORMATION TECHNOLOGY RESEARCH (ITR)				10.057	
Information Technology Research (ITR)	213,770	218,110	178,110	-40,000	-18.3%
Total	213,770	218,110	178,110	-40,000	-18.3%
Total, CISE	\$589,291	\$604,650	\$618,050	\$13,400	2.2%

	(Dollars in Thousands	)			
PROGRAM	FY 2003 ACTUAL	FY 2004 ESTIMATE	FY 2005 REQUEST	CHAN FY 2005 Req/FY AMOUNT	
ENGINEERING					
BIOENGINEERING AND ENVIRONMENTAL SYSTEMS					
Bioengineering and Environmental Systems	\$49,452	\$51,020	\$49,770	-\$1,250	-2.5%
Total	49,452	51,020	49,770	-1,250	-2.5%
CHEMICAL AND TRANSPORT SYSTEMS			(7.210	1 710	2.5%
Chemical and Transport Systems	68,331	68,920	67,210	-1,710	-2.5%
Total	68,331	68,920	67,210	-1,710	-2.5%
CIVIL AND MECHANICAL SYSTEMS Civil and Mechanical Systems	63,229	67,170	85,510	18,340	27.3%
Total	63,229	67,170	85,510	18,340	27.3%
DESIGN, MANUFACTURE, AND INDUSTRIAL INNOVATION					
Design, Manufacture, and Industrial Innovation	64,000	65,810	65,880	70	0.1%
Small Business-Industrial Innovation	90,923	103,590	104,090	500	0.5%
Total	154,923	169,400	169,970	570	0.3%
ELECTRICAL AND COMMUNICATIONS SYSTEMS					
Electrical and Communications Systems	73,046	74,580	72,730	-1,850	-2.5%
Total	73,046	74,580	72,730	-1,850	-2.5%
ENGINEERING EDUCATION AND CENTERS					
Engineering Education and Centers	132,722	134,040	130,710	-3,330	-2.5%
Total	132,722	134,040	130,710	-3,330	-2.5%
Total, ENG	\$541,702	\$565,130	\$575,900	\$10,770	1.9%

	(Dollars in Thou	isands)			
PROGRAM	FY 2003 ACTUAL	FY 2004 ESTIMATE	FY 2005 REQUEST	CHAN FY 2005 Req/FY AMOUNT	
<u>GEOSCIENCES</u>					
ATMOSPHERIC SCIENCES					
Atmospheric Sciences Research Support	\$147,943	\$156,780	\$160,130	\$3,350	2.1%
National Center for Atmospheric Research	83,348	82,000	83,500	1,500	1.8%
Total	231,291	238,780	243,630	4,850	2.0%
EARTH SCIENCES					
Earth Sciences Project Support	115,378	119,580	122,610	3,030	2.5%
Instrumentation and Facilities	31,937	32,000	33,000	1,000	3.1%
Total	147,315	151,580	155,610	4,030	2.7%
OCEAN SCIENCES					
Ocean Section	117,980	120,450	120,450	0	0.0%
Integrative Programs Section	110,260	118,080	120,240	2,160	1.8%
Marine Geosciences Section	84,980	84,210	88,570	4,360	5.2%
Total	313,230	322,740	329,260	6,520	2.0%
Total, GEO	\$691,836	\$713,100	\$728,500	\$15,400	2.2%

	(Dollars in Thousands)	1			
PROGRAM	FY 2003 ACTUAL	FY 2004 ESTIMATE	FY 2005 REQUEST	CHAN FY 2005 Req/FY AMOUNT	
MATHEMATICAL AND PHYSICAL SCIENCES					
ASTRONOMICAL SCIENCES Astronomical Sciences	\$187,074	\$196,550	\$204,350	\$7,800	4.0%
Total	187,074	196,550	204,350	7,800	4.0%
<i>CHEMISTRY</i> Chemistry	181,609	185,220	188,910	3,690	2.0%
Total	181,609	185,220	188,910	3,690	2.0%
MATERIALS RESEARCH Materials Research	241,386	250,890	253,180	2,290	0.9%
Total	241,386	250,890	253,180	2,290	0.9%
MATHEMATICAL SCIENCES Mathematical Sciences	178,785	200,410	202,250	1,840	0.9%
Total	178,785	200,410	202,250	1,840	0.9%
PHYSICS Physics	224,502	227,670	235,760	8,090	3.6%
Total	224,502	227,670	235,760	8,090	3.6%
MULTIDISCIPLINARY ACTIVITIES Research Project Support	27,341	30,770	31,050	280	0.9%
Total	27,341	30,770	31,050	280	0.9%
Total, MPS	\$1,040,697	\$1,091,510	\$1,115,500	\$23,990	2.2%

(D	ollars in Thousands)				
PROGRAM	FY 2003 ACTUAL	FY 2004 ESTIMATE	FY 2005 REQUEST	CHAN FY 2005 Req/FY AMOUNT	
SOCIAL, BEHAVIORAL AND ECONOMIC SCIENCES					
SOCIAL AND ECONOMIC SCIENCES					
Social and Economic Sciences	\$71,007	\$81,020	\$88,520	\$7,500	9.3%
Total	71,007	81,020	88,520	7,500	9.3%
BEHAVIORAL AND COGNITIVE SCIENCES					
Behavioral and Cognitive Sciences	62,315	68,500	76,000	7,500	10.9%
Total	62,315	68,500	76,000	7,500	10.9%
SCIENCE RESOURCES STATISTICS					
Science Resource Statistics	25,305	26,150	26,150	0	0.0%
Total	25,305	26,150	26,150	0	0.0%
OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING <sup>1</sup>					
Office of International Science and Engineering	39,973	28,120	34,040	5,920	21.1%
Total	39,973	28,120	34,040	5,920	21.1%
Total, SBE	\$198,599	\$203,790	\$224,710	\$20,920	10.3%
UNITED STATES POLAR RESEARCH PROGRAMS	\$255,407	\$274,080	\$281,660	\$7,580	2.8%
UNITED STATES ANTARCTIC LOGISTICAL SUPPORT ACTIVITIES	\$68,552	\$68,070	\$68,070	\$0	0.0%
INTEGRATIVE ACTIVITIES	\$97,859	\$144,140	\$239,990	\$95,850	66.5%
Total, RESEARCH AND RELATED ACTIVITIES	\$4,054,433	\$4,251,360	\$4,452,310	\$200,950	4.7%

<sup>1</sup> FY 2003 Actual includes a transfer of \$12.83 million from the Department of State for an award to the U.S. Civilian Research and Development Foundation.

(I	Oollars in Thousands)				
PROGRAM	FY 2003 ACTUAL	FY 2004 ESTIMATE	FY 2005 REQUEST	CHAN FY 2005 Req/FY AMOUNT	
EDUCATION AND HUMAN RESOURCES					
MATH & SCIENCE PARTNERSHIP					
Math & Science Partnership	144,070	139,170	0	-\$139,170	-100.0%
Total	144,070	139,170	0	-139,170	-100.0%
EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH (EPSCoR)					
Experimental Program to Stimulate Competitive Research (EPSCoR)	89,210	94,440	84,000	-10,440	-11.1%
Total	89,210	94,440	84,000	-10,440	-11.1%
ELEMENTARY, SECONDARY AND INFORMAL SCIENCE EDUCATION <sup>1</sup>					
Instructional and Assessment Materials Development	28,780	28,820	29,450	630	2.2%
Teacher & Student Development	134,080	121,310	93,300	-28,010	-23.1%
Informal Science Education	60,440	62,130	50,000	-12,130	-19.5%
Total	223,300	212,260	172,750	-39,510	-18.6%
UNDERGRADUATE EDUCATION			00.440		
Curriculum, Laboratory and Instructional Development	99,700 72,850	93,200 62,300	88,140	-5,060	-5.4%
Workforce Development	72,850	62,300	70,710	8,410	13.5%
Total	172,550	155,500	158,850	3,350	2.2%
GRADUATE EDUCATION					
Graduate Student Support	139,500	155,950	173,880	17,930	11.5%
Total	139,500	155,950	173,880	17,930	11.5%
HUMAN RESOURCE DEVELOPMENT					
Undergraduate/ Graduate Student Support	60,760	68,370	64,490	-3,880	-5.7%
Research & Education Infrastructure Opportunities for Women and Persons with Disabilities	22,740 15,980	32,330 15,150	28,300 15,150	-4,030 0	-12.5% 0.0%
Total	99,480	115,850	107,940	-7,910	-6.8%
RESEARCH, EVALUATION AND COMMUNICATION					
Research	54,270	54,240	62,370	8,130	15.0%
Evaluation	12,500	11,570	11,570	0	0.0%
Total	66,770	65,810	73,940	8,130	12.4%
Total, EHR	\$934,879	\$938,980	\$771,360	-\$167,620	-17.9%

<sup>1</sup>FY 2003 Actual and FY 2004 Estimate have been restated for the purposes of the FY 2005 Budget Request to reflect all funds for the Teacher Professional Continuum (TPC) in the ESIE Subactivity, including those previously shown in DUE (FY 2003, \$6.71 million; FY 2004 Estimate, \$6.48 million).

	(Dollars in Thous	ands)			
PROGRAM	FY 2003 ACTUAL	FY 2004 ESTIMATE	FY 2005 REQUEST	CHAN FY 2005 Req/FY AMOUNT	
MAJOR RESEARCH EQUIPMENT AND FACILITIES CONSTRUCTION	\$179,029	\$154,970			37.6%
Total, MREFC	\$179,029	\$154,970	\$213,270	\$58,300	37.6%
SALARIES AND EXPENSES	\$189,423	\$218,700	\$294,000	\$75,300	34.4%
Total, S&E <sup>1</sup>	\$189,423	\$218,700	\$294,000	\$75,300	34.4%
NATIONAL SCIENCE BOARD	\$2,876	\$3,880	\$3,950	\$70	1.8%
Total, NSB	\$2,876	\$3,880	\$3,950	\$70	1.8%
OFFICE OF INSPECTOR GENERAL	\$8,697	\$9,940	\$10,110	\$170	1.7%
Total, OIG	\$8,697	\$9,940	\$10,110	\$170	1.7%
TOTAL, NATIONAL SCIENCE FOUNDATION	\$5,369,338	\$5,577,830	\$5,745,000	\$167,170	3.0%

Totals may not add due to rounding.

<sup>1</sup> FY 2003 includes an Appropriations Transfer from the Department of State in the amount of \$13.14 million for an award to the U.S. Civilian Research and Development Foundation. (\$12.83 million in SBE and \$315,436 in S&E)

## **OBJECT CLASSIFICATION**

### NSF Consolidated Budget by Object Classification

(Includes All Appropriation Headings)<sup>1</sup>

Object Class Code	Standard Title	FY 2003 Actual	FY 2004 Estimate	FY 2005 Request
11.1	Full-time permanent	100	104	109
11.3	Other than fulltime permanent	7	7	7
11.5	Other personnel compensation	4	4	5
11.8	Special personal service payment	1	1	1
	Total personnel compensation	112	116	122
12.1	Civilian personnel benefits	25	32	33
21.0	Travel and transportation of persons	15	18	22
23.1	Rental payments to GSA	17	18	19
23.3	Communications, utilities, and			
	miscellaneous charges	2	3	3
25.1	Advisory and assistance services	58	60	77
25.2	Other services	7	12	15
25.3	Purchases of goods and services from			
	Government accounts	18	18	18
25.4	Operation and maintenance of facilities	180	180	180
25.5	Research and development contracts <sup>2</sup>	26	26	26
2.56	Medical Care	0	0	1
25.7	Operation and maintenance of facilities	9	10	43
26.0	Supplies and materials	3	3	3
31.0	Equipment	13	24	34
41.0	Grants, subsidies, and contributions	4,931	5,247	5,149
	Total, Direct obligations <sup>3</sup>	\$5,416	\$5,767	\$5,745

Totals may not add due to rounding.

construction of the South Pole Station within the Major Research Equipment and Facilities Construction (MREFC) account. <sup>3</sup>Excludes carryover and includes H-1B Nonimmigrant Petitioner obligations.



<sup>&</sup>lt;sup>1</sup>Excludes obligations for the Donations Account.

<sup>&</sup>lt;sup>2</sup>The funding pattern for research and development contracts varies in accordance with annual appropriations for

### **REIMBURSABLE ACTIVITY**

Reimbursements for the Research and Related Activities Appropriation and the Education and Human Resources Appropriation are realized from other federal agencies that have entered into interagency agreements with the Foundation. NSF enters into agreements (including Memoranda of Understanding) with other U.S. government agencies, as authorized by the NSF Act, 42 U.S.C. 1870 (c) and the Economy Act: 31 U.S.C. 1535, under which NSF assumes some responsibility for activities supported by these agencies. These activities can include jointly funded projects and programs, support of research operations and logistics, and access to NSF supported research facilities.

DEPARTMENT/AGENCY	FY 2003
DEFENSE	
AIR FORCE	3.7
ARMY	5.5
Other DOD (DARPA, NSA & Intelligence Agency)	14.6
NAVY	2.0
SUBTOTAL, DOD	\$25.8
ARMY CORP OF ENGINEERS	0.7
CIA	18.5
COMMERCE	6.0
EDUCATION	1.1
ENERGY	8.7
EPA	0.8
HEALTH & HUMAN SERVICES	22.6
HOMELAND SECURITY	0.8
HUD	0.9
NASA	15.2
TRANSPORTATION	0.7
STATE	0.5
OTHER (less than \$500,000)	1.6
TOTAL REIMBURSEMENTS	\$103.9

### **REIMBURSABLE AWARDS BY AGENCY**

(Dollars in Millions)

Totals may not add due to rounding.

Since the 1980s, the number of interagency agreements NSF handles has increased dramatically. This increase is indicative of the growth in the breadth and complexity of the Foundation's programmatic activity. Consistent with applicable legislation and GAO decisions, agreements include reimbursement for costs that are incurred in the management and administration of these awards.

In FY 2003 the largest portion of NSF's reimbursable activity came from joint activities with the Department of Defense, (24.8 percent) the Department of Health and Human Services (21.8 percent) and the Central Intelligence Agency (17.8 percent). Reimbursable activities with the Department of Defense were primarily for support of the Air Force's Advanced Electro-Optical System (AEOS) and Army's 4 Dimensional Weather System (4DWX). Reimbursable activities with the Department of Health and Human Services are for non-medical biological research such as the human frontiers science program and the protein data bank.

	FY 2003 FY 2004 FY 2005 C			Cha	hange	
	Actual	Estimate	Request	Amount	Percent	
Full-Time Equivalent Employment (FTE)	1,246	1,300	1,325	25	1.9%	
Average GS Grade	10.75	10.67	10.80	0.13	1.2%	
Average Salary	\$84,797	\$84,597	\$87,158	\$2,561	3.0%	

# PERSONNEL SUMMARY

### **DETAIL OF PERMANENT APPOINTMENTS**

	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate
Executive Level II	1	1	1
Executive Level III	1	1	1
Subtotal	2	2	2
ES-5	87	88	92
AD	289	282	300
GS/GM-15	72	82	84
GS/GM-14	85	92	94
GS/GM-13	115	102	104
GS-12	93	106	108
GS-11	49	55	55
GS-10	12	15	15
GS-9	78	77	77
GS-8	69	65	65
GS-7	132	127	127
GS-6	25	35	35
GS-5	4	24	24
GS-4	1	4	4
Subtotal	735	784	792
Total Permanent Appointments	1,113	1,156	1,186
FTE	1,246	1,300	1,325



### **EXPLANATION OF CARRYOVER FOR FY 2004**

The National Science Foundation's total unobligated balance of \$100.18 million from the FY 2003 Appropriation consists of amounts displayed below.

- Within the Research and Related Activities (RRA) appropriation \$28.42 million was carried forward into FY 2004. Integrative Activities carried over \$1.78 million for the Science and Technology Centers awards, and \$17.68 million for the Science of Learning Centers (SLC). The Directorate for Social, Behavioral, and Economics Sciences (SBE) will manage the SLC awards. Under the SBE activity, \$8.43 million was brought forward for funding of the Human and Social Dynamics awards. The remaining amounts are from several awards in various programs that were not ready for obligation in FY 2003.
- Within the Education and Human Resources (EHR) appropriation \$5.00 million was carried forward into FY 2004 for funding of the Centers of Research Excellence in Science and Technology (CREST) awards.
- Within the Major Research Equipment and Facilities Construction (MREFC) appropriation \$66.11 million was carried forward into FY 2004. This includes \$53.38 million for the Office of Polar Programs (OPP) activity (i.e., \$49.55 million for the South Pole Station Modernization, \$115,000 for Polar Support Aircraft upgrades, and \$44,216 for the South Pole Safety project, and \$3.67 million for IceCube), and \$12.54 million for the Geosciences (GEO) activity for the High-performance Instrumented Airborne Platform for Environmental Research (HIAPER).
- Within the Office of Inspector General appropriation a total of \$645,872 was carried forward into FY 2004 to cover priority audits that are contracted out, fund contracts for financial analysis and other technical support for OIG investigations, provide OIG's share of the development costs of new space for the office, fund the final phase of a contract to upgrade OIG's knowledge management system, and protect the appropriation against unanticipated variations between obligations and expenditures.

		FY 2004	Adjusted Total
	FY 2004	Carryover from	FY 2004
	Estimate	FY 2003	Estimate
Research and Related Activities	4,251.36	28.42	4,279.78
Education and Human Resources <sup>1</sup>	938.98	5.00	943.98
Major Research Equipment			
and Facilities Construction	154.97	66.11	221.08
Salaries and Expenses	218.70	-	218.70
National Science Board	3.88	-	3.88
Office of Inspector General	9.94	0.65	10.59
Total	5,577.83	100.18	5,678.01

#### Distribution of FY 2003 Carryover into FY 2004 (Dollars in Millions)

Totals may not add due to rounding.

<sup>1</sup>Carryover excludes \$83.90 million of H-1B Nonimmigrant Petitioner Fees.



### NATIONAL SCIENCE FOUNDATION FY 2005 CONGRESSIONAL REQUEST FULL BUDGETARY COSTING

The tables below show two methods for allocating the full budgetary cost of the NSF FY 2005 Request. The first shows the full budgetary costs allocated to each of NSF's operating directorates. The second shows these costs allocated to three of NSF's strategic outcome goals: People, Ideas, and Tools. Organizational Excellence, NSF's fourth strategic goal encompasses the indirect costs to be allocated under full budgetary costing. These allocations represent initial steps, using readily available information, in NSF's plans to achieve the integration of budget, cost, and performance, consistent with the President's Management Agenda.

What is Full Budgetary Cost? OMB Circular A-11 defines "full-cost" as the sum of all budget resources used by an agency to achieve program outputs and outcomes. These include both *direct* program costs and *indirect* costs, which generally include administrative costs and other activities that are not directly attributable to a single program or activity. For two of NSF's appropriations, Research and Related Activities (R&RA) and Education and Human Resources (EHR), all funds are directly attributable to directorates and outcome goals. For NSF's other four appropriations, Major Research Equipment and Facilities Construction (MREFC), Salaries and Expenses (S&E), National Science Board (NSB), and the Office of Inspector General (OIG), the funds are distributed using the methodologies described below.

#### **Allocation by Directorate**

The current budget structure contains program activities within R&RA and EHR that equate to directorates. Therefore, R&RA and EHR funding is already aligned by directorate. MREFC funds projects that are managed by a particular NSF directorate. Therefore, each MREFC project can be directly associated with a particular directorate. In addition, each managing directorate is responsible for the initial planning, design and follow-on operations and maintenance costs that are funded R&RA. The MREFC program funds were assigned to the managing directorate responsible for oversight of a particular project. (Table 1)

All budget items funded through the S&E, NSB, and OIG appropriations accounts are defined as Organizational Excellence (OE) and are allocated to directorates. More than half of the S&E account can be precisely associated with an individual directorate. These S&E Direct budget items consist of distributed funding for travel, training, equipment, supplies, incentive awards and premium pay. Also, space rental and personnel compensation and benefits (PC&B) of employees in a particular directorate are attributed to that directorate in the financial accounting system.

Once S&E Direct budget items that are directly associated with a particular directorate have been assigned, then budget items associated with the Office of Information and Resource Management (IRM), Office of Budget, Finance and Awards Management (BFA), the staff offices in the Office of the Director (OD), NSB, and OIG are allocated. These S&E Indirect budget items are allocated to a particular directorate based on the proportion of the total FY 2005 Directorate Request. The FY 2005 NSB and OIG budgetary costs are assigned using the same methodology as the S&E Indirect costs total. (Table 1)

#### Allocations by Strategic Outcome Goal

The full budgetary costing by People, Ideas, and Tools (PIT) was derived by using the same methodology as stated above, except the Direct S&E budget items, Indirect S&E budget items, and total NSB and OIG funding were assigned using the PIT percentages for the applicable directorate. (Table 2)



#### FY 2005 FULL BUDGETARY COSTING

Table 1: Allocation of Major Research Equipment and Facilities Construction (MREFC),
Salaries and Expenses (S&E), National Science Board (NSB), and the Office of Inspector General (OIG)
(Dollars in Thousands)

									R&RA		
	BIO	CISE	ENG	GEO	MPS	SBE	OPP	IA	Total	EHR	TOTAL
FY 2005 CONGRESSIONAL											
REQUEST	599,930	618,050	575,900	728,500	1,115,500	224,710	349,730	239,990	4,452,310	771,360	5,223,670
MREFC											
Large Hadron Collider (LHC) NEES			-						-	-	-
Terascale Computing Syst (TCS)									-	-	-
HIAPER				-					-	-	-
South Pole Station							-		-	-	-
Earth Scope				47,350					47,350	-	47,350
NEON	12,000								12,000	-	12,000
IceCube							33,400		33,400	-	33,400
ALMA					49,670				49,670	-	49,670
Ocean Drilling				40,850					40,850	-	40,850
RSVP					30,000				30,000	-	30,000
MREFC Subtotals	12,000	-	-	88,200	79,670	-	33,400	-	213,270	-	213,270
Total Directorate FY 2005	(11.020	(10.070		01 6 200	1 105 150		202 120	220.000			- 126.040
Request including MREFC	611,930	618,050	575,900	816,700	1,195,170	224,710	383,130	239,990	4,665,580	771,360	5,436,940
Direct S&E	1.400	000	1.562	1 207	1 40 4	1 501	500		0.620	1.057	10,405
Space Rental Direct	1,406	998	1,563	1,207	1,404	1,531	520	-	8,629	1,857	10,485
PC&B Direct	11,812	8,920	15,223	13,711	17,044	18,862	6,341	-	91,913	16,964	108,878
Distributed S&E Direct	903	685	1,097	738	1,134	785	496	-	5,838	911	6,750
Direct S&E Subtotals	14,121	10,603	17,883	15,656	19,582	21,178	7,357	-	106,380	19,732	126,113
Indirect S&E Cost Allocation	20,210	20,820	19,401	24,541	37,578	7,570	11,781	-	141,901	25,985	167,887
S&E Direct & Indirect Subtotals	34,331	31,423	37,284	40,197	57,160	28,748	19,138	-	248,281	45,717	294,000
NSB Allocation	475	490	456	577	884	178	277		3,337	611	3,950
OIG Allocation	1,217	1,254	1,168	1,478	2,263	456	709	-	8,545	1,565	10,110
NSF TOTAL	647,953	651,217	614,808	858,952	1,255,477	254,092	403,254	239,990	4,925,743	819,253	5,745,000

#### FY 2005 FULL BUDGETARY COSTING

#### Table 2: Allocation by People, Ideas, and Tools

(Dollars in Thousands)											
Total Directorate FY 2005	BIO	CISE	ENG	GEO	MPS	SBE	OPP	IA	R&RA	EHR	TOTAL
People	63,765	67,791	95,184	35,592	139,366	20,249	5,944	90,000	517,891	622,327	1,140,219
Ideas	458,173	422,951	482,118	437,026	745,277	183,405	92,223	55,990	2,877,163	174,110	3,051,275
Tools	126,015	160,475	37,506	386,334	370,834	50,438	305,087	94,000	1,530,689	22,816	1,553,506
FULL BUDGETARY COST	647,953	651,217	614,808	858,952	1,255,477	254,092	403,254	239,990	4,925,743	819,253	5,745,000

Subtotals may not add due to rounding.