

RESEARCH AND RELATED ACTIVITIES

\$5,593,990,000

The FY 2009 Budget Request for the Research and Related Activities (R&RA) Appropriation is \$5,593.99 million, an increase of \$772.52 million, or 16.0 percent, above the FY 2008 Estimate of \$4,821.47 million. Support from the R&RA Appropriation enables U.S. leadership and progress across the frontiers of scientific and engineering research and education.

Sustained, targeted investment by NSF in fundamental science and engineering advances discovery and learning and spurs innovation. Such transformational work holds great promise for meeting the myriad social, economic, and environmental challenges faced by both the Nation and the world. And as global competition in science and engineering becomes more intense, continued support for high-risk, high-reward research is vital to U.S. competitiveness.

To meet these challenges set forth in the American Competitiveness Initiative (ACI) and America COMPETES Act, the R&RA portfolio for FY 2009 places priority on potentially transformative activities involving all fields of science and engineering.

Research and Related Activities

(Dollars in Millions)

	FY 2007 Actual	FY 2008 Estimate	FY 2009 Request	Change over	
				FY 2008 Estimate Amount	Percent
Biological Sciences	\$608.54	\$612.02	\$675.06	\$63.04	10.3%
Computer and Information Science and Engineering	526.68	534.53	638.76	104.23	19.5%
Engineering	629.99	636.87	759.33	122.46	19.2%
Geosciences	745.85	752.66	848.67	96.01	12.8%
Mathematical and Physical Sciences	1,150.73	1,167.31	1,402.67	235.36	20.2%
Social, Behavioral and Economic Sciences	214.54	215.13	233.48	18.35	8.5%
Office of Cyberinfrastructure	182.42	185.33	220.08	34.75	18.8%
Office of International Science and Engineering ¹	40.36	41.34	47.44	6.10	14.8%
Office of Polar Programs	438.43	442.54	490.97	48.43	10.9%
Integrative Activities ²	219.45	232.27	276.00	43.73	18.8%
U.S. Arctic Research Commission	1.45	1.47	1.53	0.06	4.1%
Total, Research and Related Activities	\$4,758.44	\$4,821.47	\$5,593.99	\$772.52	16.0%

Totals may not add due to rounding.

¹ OISE FY 2007 Actual excludes \$5.46 million provided to NSF by the U.S. Department of State for an award to the U.S. Civilian Research and Development Foundation.

² Includes funding for EPSCoR for all years shown for comparability. Prior to FY 2008, the program was funded through the Education and Human Resources appropriation.

RESEARCH AND RELATED ACTIVITIES

Appropriation Language

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.*)

**Research and Related Activities
FY 2009 Summary Statement
(Dollars in Millions)**

	Enacted/ Request	Carryover/ Recoveries	P.L. 110-161 Rescission	Transfers ¹	Expired	Total Resources	EPSCoR	Total Adjusted Resources	Obligations Incurred/ Est.
FY 2007 Approp.	\$4,665.95	\$8.28	-	\$5.46	-\$0.72	\$4,678.97	\$102.11	\$4,781.08	\$4,758.44
FY 2008 Estimate ²	4,821.47	22.63	-17.17	-		4,826.93	-	4,826.93	4,826.93
FY 2009 Request ²	5,593.99	-	-	-		-	-	5,593.99	5,593.99
\$ Change from FY 2008									\$767.06
% Change from FY 2008									15.9%

Totals may not add due to rounding.

¹Transferred from the U.S. International Development Cooperation Agency for an award to the U.S. Civilian Research and Development Foundation.

²The FY 2008 Estimate for R&RA includes \$111.10 million for EPSCoR. The FY 2009 Request for R&RA includes \$113.5 million for EPSCoR. Prior to FY 2008, EPSCoR was funded through the Education and Human Resources appropriation.

Adjustments to Base

In FY 2007, 102.11 million is being reported for EPSCoR in the Integrative Activities activity within the R&RA appropriation. The R&RA FY 2009 Summary Statement table includes information for EPSCoR from FY 2007 through FY 2009.

**RESEARCH AND RELATED ACTIVITIES
FY 2009 Performance Highlights**

The table below shows the strategic planning and evaluation framework for activities funded through the R&RA appropriation. This framework was established in the NSF Strategic Plan for FY 2006-2011. NSF's strategic outcome goals are assessed annually by the Advisory Committee for GPRA Performance Assessment. Investments are assessed further using the Program Assessment Rating Tool (PART). Additional details are available in the Performance Information section of this document.

**Research and Related Activities
By Strategic Outcome Goal
(Dollars in Millions)**

	FY 2007 Actuals	FY 2008 Estimate	FY 2009 Request	Change over FY 2008 Estimate	
				Amount	Percent
Discovery ¹	\$3,042.74	\$3,099.48	\$3,670.27	\$570.79	18.4%
Learning	271.62	272.75	280.10	7.35	2.7%
Research Infrastructure	1,395.31	1,396.82	1,573.35	176.53	12.6%
Stewardship	48.77	52.42	70.27	17.85	34.1%
Total, NSF	\$4,758.44	\$4,821.47	\$5,593.99	\$772.52	16.0%

Totals may not add due to rounding.

¹ Funding for EPSCoR is shown in all years for comparability. Prior to FY 2008, EPSCoR was funded through the Education and Human Resources appropriation.

