AUTHENTICATED
U.S. GOVERNMENT
INFORMATION
GPO

NATIONAL SCIENCE FOUNDATION

4201 Wilson Boulevard, Arlington, VA 22230
Phone, 703–306–1234. Internet, http://www.nsf.gov/.

National Science Board

Chairman	EAMON M. KELLY
Vice Chairman	DIANA NATALICIO
Members	JOHN A. ARMSTRONG, MARY K. GAILLARD, SANFORD D. GREENBERG, M.R.C. GREENWOOD, STANLEY V. JASKOLSKI, JANE LUBCHENCO, EVE L. MENGER, CLAUDIA I. MITCHELL-KERNAN, VERA C. RUBIN, ROBERT M. SOLOW, BOB H. SUZUKI, RICHARD A. TAPIA, WARREN M. WASHINGTON, JOHN A. WHITE, JR., (8 VACANCIES)
(*Ex officio*)	RITA R. COLWELL
Executive Officer	MARTA C. CEHELSKY
Inspector General	PHILIP L. SUNSHINE, *Acting*
Deputy Inspector General	EDWARD L. BLANSITT III, *Acting*
Counsel to the Inspector General	MONTGOMERY K. FISHER
Assistant Inspector General for Audit	EDWARD L. BLANSITT III
Assistant Inspector General for Oversight	JAMES J. ZWOLENIK

Officials:

Director	RITA R. COLWELL
Deputy Director	JOSEPH BORDOGNA, *Acting*
Senior Science Adviser	KARL A. ERB
Assistant to the Director for Science Policy and Planning	JUDITH S. SUNLEY
Assistant to the Deputy Director for Human Resource Development	WANDA E. WARD
General Counsel	LAWRENCE RUDOLPH
Deputy General Counsel	THEODORE A. MILES
Director, Office of Legislative and Public Affairs	JULIA A. MOORE
Deputy Director, Office of Legislative and Public Affairs	JOEL M. WIDDER
Director, Office of Integrative Activities	NATHANIEL G. PITTS
Director, Office of Polar Programs	JOHN B. HUNT, *Acting*
Assistant Director for Mathematical and Physical Sciences	ROBERT A. EISENSTEIN
Executive Officer	ADRIAAN M. DE GRAAF
Head, Office of Multidisciplinary Activities	HENRY N. BLOUNT III
Director, Division of Physics	JOHN W. LIGHTBODY, JR., *Acting*
Director, Division of Chemistry	JANET G. OSTERYOUNG
Director, Division of Materials Research	THOMAS A. WEBER
Director, Division of Astronomical Sciences	HUGH M. VAN HORN
Director, Division of Mathematical Sciences	DONALD J. LEWIS
Assistant Director for Geosciences	ROBERT W. CORELL

Deputy Assistant Director	THOMAS J. BAERWALD
Director, Division of Atmospheric Sciences	RICHARD S. GREENFIELD
Director, Division of Earth Sciences	IAN D. MACGREGOR
Director, Division of Ocean Sciences	G. MICHAEL PURDY
Assistant Director for Biological Sciences	MARY E. CLUTTER
Deputy Assistant Director	JAMES L. EDWARDS
Director, Division of Biological Infrastructure	MACHI F. DILWORTH, *Acting*
Director, Division of Molecular and Cellular Biosciences	MARYANNA P. HENKART
Director, Division of Integrative Biology and Neuroscience	BRUCE L. UMMINGER
Director, Division of Environmental Biology	BRUCE P. HAYDEN
Assistant Director for Engineering	EUGENE WONG
Deputy Assistant Director for Engineering	ELBERT L. MARSH
Director, Division of Engineering Education and Centers	MARSHALL M. LIH
Director, Division of Electrical and Communications Systems	ARTHUR C. SANDERSON
Director, Division of Chemical and Transport Systems	GARY W. POEHLEIN
Director, Division of Civil and Mechanical Systems	RONALD L. SACK
Director, Division of Design, Manufacture, and Industrial Innovation	BRUCE M. KRAMER
Director, Division of Bioengineering and Environmental Systems	JANIE M. FOUKE
Director, Office of Small Business Research and Development	DONALD SENICH
Director, Office of Small and Disadvantaged Business Utilization	JOSEPH BORDOGNA
Assistant Director for Computer and Information Science and Engineering	JURIS HARTMANIS
Deputy Assistant Director	MELVYN CIMENT
Director, Division of Experimental and Integrative Activities	JOHN CHERNIAVSKY
Director, Division of Advanced Computational Infrastructure and Research	ROBERT R. BORCHERS
Director, Division of Computer-Communications Research	JOHN R. LEHMANN, *Acting*
Director, Division of Information and Intelligent Systems	MICHAEL E. LESK
Director, Division of Advanced Networking Infrastructure and Research	GEORGE O. STRAWN
Assistant Director for Social, Behavioral, and Economic Sciences	BENNETT I. BERTENTHAL
Executive Officer	JEFF FENSTERMACHER
Director, Division of Social, Behavioral, and Economic Research	WILLIAM P. BUTZ
Director, Division of Science Resources Studies	JEANNE E. GRIFFITH
Director, Division of International Programs	PIERRE M. PERROLLE
Assistant Director for Education and Human Resources	LUTHER S. WILLIAMS
Deputy Assistant Director	JANE T. STUTSMAN

Deputy Assistant Director for Integrative Activities	JOHN B. HUNT
Director, Division of Educational System Reform	LUTHER S. WILLIAMS, *Acting*
Director, Division of Elementary, Secondary, and Informal Education	HYMAN H. FIELD, *Acting*
Director, Division of Graduate Education	SUSAN W. DUBY, *Acting*
Director, Division of Human Resource Development	ROOSEVELT CALBERT
Director, Division of Research, Evaluation, and Communication	DARYL E. CHUBIN
Director, Division of Undergraduate Education	NORMAN L. FORTENBERRY
Head, Office of Experimental Program to Stimulate Competitive Research	RICHARD J. ANDERSON
Chief Financial Officer/Director, Office of Budget, Finance, and Award Management	JOSEPH L. KULL
Deputy Chief Financial Officer/Director, Division of Financial Management	ALBERT A. MUHLBAUER
Executive Officer	THOMAS N. COOLEY
Director, Division of Grants and Agreements	JOANNE E. ROM
Director, Division of Contracts, Policy, and Oversight	ROBERT B. HARDY
Director, Budget Division	MARTHA A. RUBENSTEIN
Director, Office of Information and Resource Management	LINDA P. MASSARO
Deputy Director	GERARD R. GLASER
Director, Division of Human Resource Management	JOHN F. WILKINSON, JR.
Director, Division of Information Systems	FRED WENDLING
Director, Division of Administrative Services	ROBERT E. SCHMITZ

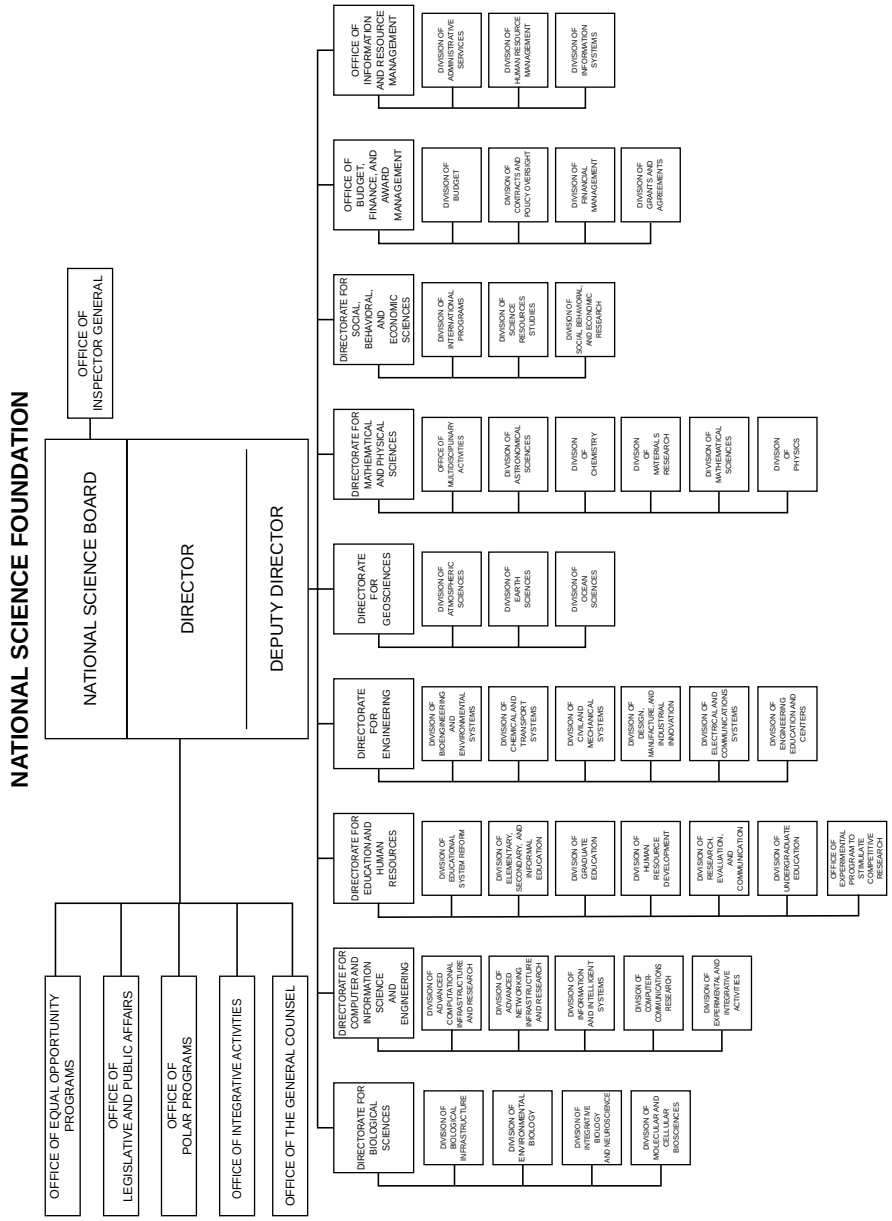
[For the National Science Foundation statement of organization, see the *Federal Register* of February 8, 1993, 58 FR 7587–7595; May 27, 1993, 58 FR 30819; May 2, 1994, 59 FR 22690; and Oct. 6, 1995, 60 FR 52431]

The National Science Foundation promotes the progress of science and engineering through the support of research and education programs. Its major emphasis is on high-quality, merit-selected research—the search for improved understanding of the fundamental laws of nature upon which our future well-being as a nation depends. Its educational programs are aimed at ensuring increased understanding of science and engineering at all educational levels, maintaining an adequate supply of scientists, engineers, and science educators to meet our country's needs.

The National Science Foundation is an independent agency created by the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861–1875).

The purposes of the Foundation are: to increase the Nation's base of scientific and engineering knowledge and strengthen its ability to conduct research in all areas of science and engineering; to develop and help implement science and engineering education programs that can better prepare the Nation for meeting the challenges of the future; and to promote international cooperation through science and engineering. In its role as a leading Federal supporter of science and engineering, the agency also has an important role in national policy planning.

The Foundation consists of a National Science Board and a Director. The National Science Board is composed of 24 members and the Director *ex officio.*


NATIONAL SCIENCE FOUNDATION
NATIONAL SCIENCE BOARD
OFFICE OF INSPECTOR GENERAL
DIRECTOR
DEPUTY DIRECTOR
OFFICE OF EQUAL OPPORTUNITY PROGRAMS
OFFICE OF LEGISLATIVE AND PUBLIC AFFAIRS
OFFICE OF POLAR PROGRAMS
OFFICE OF INTEGRATIVE ACTIVITIES
OFFICE OF THE GENERAL COUNSEL
DIRECTORATE FOR BIOLOGICAL SCIENCES
DIVISION OF BIOLOGICAL INFRASTRUCTURE
DIVISION OF ENVIRONMENTAL BIOLOGY
DIVISION OF INTEGRATIVE ORGANISMAL BIOLOGY AND NEUROSCIENCE
DIVISION OF MOLECULAR AND CELLULAR BIOSCIENCES
DIRECTORATE FOR COMPUTER AND INFORMATION SCIENCE AND ENGINEERING
DIVISION OF ADVANCED COMPUTATIONAL INFRASTRUCTURE AND RESEARCH
DIVISION OF ADVANCED NETWORKING INFRASTRUCTURE AND RESEARCH
DIVISION OF INFORMATION AND INTELLIGENT SYSTEMS
DIVISION OF COMPUTER-COMMUNICATIONS RESEARCH
DIVISION OF EXPERIMENTAL AND INTEGRATIVE ACTIVITIES
DIRECTORATE FOR EDUCATION AND HUMAN RESOURCES
DIVISION OF EDUCATIONAL SYSTEM REFORM
DIVISION OF ELEMENTARY, SECONDARY, AND INFORMAL EDUCATION
DIVISION OF GRADUATE EDUCATION
DIVISION OF HUMAN RESOURCE DEVELOPMENT
DIVISION OF RESEARCH, EVALUATION, AND COMMUNICATION
DIVISION OF UNDERGRADUATE EDUCATION
OFFICE OF EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH
DIRECTORATE FOR ENGINEERING
DIVISION OF BIOENGINEERING AND ENVIRONMENTAL SYSTEMS
DIVISION OF CHEMICAL AND TRANSPORT SYSTEMS
DIVISION OF CIVIL AND MECHANICAL SYSTEMS
DIVISION OF DESIGN, MANUFACTURE, AND INDUSTRIAL INNOVATION
DIVISION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS
DIVISION OF ENGINEERING EDUCATION AND CENTERS
DIRECTORATE FOR GEOSCIENCES
DIVISION OF ATMOSPHERIC SCIENCES
DIVISION OF EARTH SCIENCES
DIVISION OF OCEAN SCIENCES
DIRECTORATE FOR MATHEMATICAL AND PHYSICAL SCIENCES
OFFICE OF MULTIDISCIPLINARY ACTIVITIES
DIVISION OF ASTRONOMICAL SCIENCES
DIVISION OF CHEMISTRY
DIVISION OF MATERIALS RESEARCH
DIVISION OF MATHEMATICAL SCIENCES
DIVISION OF PHYSICS
DIRECTORATE FOR SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES
DIVISION OF INTERNATIONAL PROGRAMS
DIVISION OF SOCIOLOGICAL, RESOURCES STUDIES
DIVISION OF SOCIAL, BEHAVIORAL, AND ECONOMIC RESEARCH
OFFICE OF BUDGET, FINANCE, AND AWARD MANAGEMENT
DIVISION OF BUDGET
DIVISION OF CONTRACTS AND POLICY OVERSIGHT
DIVISION OF FINANCIAL MANAGEMENT
DIVISION OF GRANTS AND AGREEMENTS
OFFICE OF INFORMATION AND RESOURCE MANAGEMENT
DIVISION OF ADMINISTRATIVE SERVICES
DIVISION OF HUMAN RESOURCE MANAGEMENT
DIVISION OF INFORMATION SYSTEMS

Members are appointed by the President with the advice and consent of the Senate, for 6-year terms, with one-third appointed every 2 years. They are selected because of their records of distinguished service in science, engineering, education, research management, or public affairs to be broadly representative of the views of national science and engineering leadership.

Both the Director and the Deputy Director are appointed by the President with the advice and consent of the Senate, to a 6-year term and an unspecified term, respectively.

The National Science Foundation Act assigns policymaking functions for the Foundation to the National Science Board, within the framework of applicable policies set forth by the President and the Congress, and assigns the administration of the Foundation to the Director. By statute the Director of the Foundation is an *ex officio* member of the Board and Chairman of the Executive Committee of the Board.

The Board also has a broad national policy responsibility to monitor and make recommendations to promote the health of U.S. science and engineering research and education.

The Foundation's Office of Inspector General is responsible for conducting and supervising audits, inspections, and investigations relating to the programs and operations of the Foundation, including allegations of misconduct in science.

Activities

The National Science Foundation initiates and supports fundamental, long-term, merit-selected research in all the scientific and engineering disciplines. This support is made through grants, contracts, and other agreements awarded to universities, colleges, academic consortia, and nonprofit and small business institutions. Most of this research is directed toward the resolution of scientific and engineering questions concerning fundamental life processes, natural laws and phenomena, fundamental processes influencing the human environment, and the forces affecting people as members of society as well as the behavior of society as a whole.

The Foundation encourages cooperative efforts by universities, industries, and government. It also promotes the application of research and development for better products and services that improve the quality of life and stimulate economic growth.

The Foundation promotes the development of research talent through support of undergraduate and graduate students, as well as postdoctoral researchers. It administers special programs to identify and encourage participation by groups underrepresented in science and technology and to strengthen research capability at smaller institutions, small businesses, undergraduate colleges, and universities.

The Foundation supports major national and international science and engineering activities, including the U.S. Antarctic Program, the Ocean Drilling Program, global geoscience studies, and others. Cooperative scientific and engineering research activities support exchange programs for American and foreign scientists and engineers, execution of jointly designed research projects, participation in the activities of international science and engineering organizations, and travel to international conferences.

Support is provided through contracts and cooperative agreements with national centers where large facilities are made available for use by qualified scientists and engineers. Among the types of centers supported by the Foundation are astronomy and atmospheric sciences, biological and engineering research, science and technology, supercomputers, and long-term ecological research sites.

The Foundation provides competitively awarded grants for repair, renovation, or, in exceptional cases, replacement of facilities used for research and research training at academic and nonprofit institutions.

The Foundation's science and engineering education activities include grants for research and development

activities directed to model instructional materials for students and teachers and the application of advanced technologies to education. Grants also are available for teacher preparation and enhancement and informal science education activities. Funding is also provided for college science instrumentation, course and curriculum improvement, faculty and student activities, and minority resource centers. In addition, studies of the status of math, science, and engineering education are supported.

The National Science Board annually presents the Vannevar Bush Award to a person who, through public service activities in science and technology, has made an outstanding contribution toward the welfare of mankind and the Nation. It also presents the Public Service Award to an individual and to a company, corporation, or organization who, through contributions to public service in areas other than research, have increased the public understanding of science or engineering. The National Science Foundation annually presents the Alan T. Waterman Award to an outstanding young scientist or engineer for support of research and study. The Foundation also provides administrative support for the President's Committee on the National Medal of Science.

Information on these awards is available through the Internet, at http://www.nsf.gov/home/nsb/start.htm.

Sources of Information

Board and Committee Minutes Summary minutes of the open meetings of the Board may be obtained from the National Science Board Office. Phone, 703–306–2000. Information on NSB meetings, minutes, and reports is available through the Internet at http://www.nsf.gov/home/nsb/start.htm. Summary minutes of the Foundation's advisory groups may be obtained from the contacts listed in the notice of meetings published in the *Federal Register.* General information about the Foundation's advisory groups may be obtained from the Division of Human Resource Management, Room 315, Arlington, VA 22230. Phone, 703–306–1181.

Contracts The Foundation publicizes contracting and subcontracting opportunities in the *Commerce Business Daily* and other appropriate publications. Organizations seeking to undertake contract work for the Foundation should contact either the Division of Contracts, Policy, and Oversight (phone, 703–306–1242) or the Division of Administrative Services (phone, 703–306–1122), National Science Foundation, Arlington, VA 22230.

Electronic Access Information regarding NSF programs and services is available through the Internet, at http://www.nsf.gov/.

Employment Inquiries may be directed to the Division of Human Resource Management, National Science Foundation, Room 315, Arlington, VA 22230. Phone, 703–306–1182, or, for the hearing impaired (TDD), 703–306–0189. The Foundation's vacancy hotline numbers are 703–306–0080 or 1–800–628–1487. Internet, http://www.nsf.gov/.

Fellowships Consult the *NSF Guide to Programs* and appropriate announcements and brochures for postdoctoral fellowship opportunities that may be available through some Foundation divisions. Beginning graduate and minority graduate students wishing to apply for fellowships should contact the Directorate for Education and Human Resources. Phone, 703–306–1694.

Freedom of Information Act Requests Requests for agency records should be submitted in accordance with the Foundation FOIA regulation at 45 CFR part 612. Such requests should be clearly identified with ''FOIA REQUEST'' and be addressed to the FOIA Officer, Office of General Counsel, National Science Foundation, Room 1265, Arlington, VA 22230. Phone, 703–306–1060. Fax, 703–306–0149. E-mail, foia@nsf.gov.

Grants Individuals or organizations who plan to submit grant proposals should refer to the *NSF Guide to Programs, Grant Proposal Guide* (NSF 98–2), and appropriate program

brochures and announcements that may be obtained as indicated in the Publications section. Grant information is also available electronically through the Internet, at http://www.nsf.gov/.

Office of Inspector General General inquiries may be directed to the Office of Inspector General, National Science Foundation, Room 1135, Arlington, VA 22230. Phone, 703–306–2100.

Privacy Act Requests Requests for personal records should be submitted in accordance with the Foundation Privacy Act regulation at 45 CFR, part 613. Such requests should be clearly identified with ''PRIVACY ACT REQUEST'' and be addressed to the Privacy Act Officer, National Science Foundation, Room 1265, Arlington, VA 22230. Phone, 703–306–1060.

Publications The National Science Board assesses the status and health of science and its various disciplines, including such matters as human and material resources, in reports submitted to the President for submission to the Congress. The most recent report is *Science and Engineering Indicators, 1996* (NSB–96–21).

The National Science Foundation issues publications that announce and describe new programs, critical dates, and application procedures for competitions. Single copies of these publications can be ordered in a variety of ways: phone, 301–947–2722; E-mail, pubinfo@nsf.gov; or by writing to: NSF Clearinghouse, P.O. Box 218, Jessup, MD 20794–0218. These publications are also available electronically through the Internet, at http://www.nsf.gov/.

Other Foundation publications include: the *Grant Policy Manual* (NSF–95–26), which contains comprehensive statements of Foundation grant administration policy, procedures, and guidance; *Guide to Programs,* which summarizes information about support programs; the quarterly *Antarctic Journal of the United States* and its annual review issue; and the *NSF Annual Report.* These publications are available from the Superintendent of Documents, Government Printing Office, Washington, DC 20402; or electronically through the Internet, at http://www.nsf.gov/.

Reading Room A collection of Foundation policy documents and staff instructions, as well as current indexes, are available to the public for inspection and copying during regular business hours, 8:30 a.m. to 5 p.m., Monday through Friday, in the National Science Foundation Library, Room 225, Arlington, VA 22230. Phone, 703–306–0658.

Small Business Activities The Office of Small Business Research and Development provides information on opportunities for Foundation support to small businesses with strong research capabilities in science and technology. Phone, 703–306–1330. The Office of Small and Disadvantaged Business Utilization oversees agency compliance with the provisions of the Small Business Act and the Small Business Investment Act of 1958, as amended (15 U.S.C. 631, 661, 683). Phone, 703–306–1330.

For further information, contact the National Science Foundation Information Center, 4201 Wilson Boulevard, Second Floor, Arlington, VA 22230. Phone, 703–306–1234. TDD, 703–306–0900. E-mail, info@nsf.gov. Internet, http://www.nsf.gov/.

NATIONAL TRANSPORTATION SAFETY BOARD

490 L'Enfant Plaza SW., Washington, DC 20594
Phone, 202–314–6000. Internet, http://www.ntsb.gov/.

Chairman	JAMES E. HALL
Vice Chairman	ROBERT T. FRANCIS II