



January 11, 2005

URL: <http://www.hofstra.edu/grants>

Funding Opportunities in Technology and the Sciences

Nanoscale Science and Engineering Education (NSEE)

National Science Foundation (NSF)

URL: <http://www.nsf.gov/pubs/2005/nsf05543/nsf05543.pdf>

Upcoming Deadline for LOI: February 6, 2005

***Deadlines Vary:** See Below

This initiative aims to enhance formal and informal education in nanoscale science, engineering, and technology. Its goals are to develop strong partnerships linking science educators with nanoscale science and engineering researchers, and to increase knowledge of advances in nanoscale research and technology and their impact on society. To attain the overarching program goals, NSEE encompasses two independent components:

- **Nanoscale Informal Science Education (NISE):** This effort is intended to foster public awareness, engagement, and understanding of nanoscale science, engineering, and technology through establishment of a Network, a national infrastructure that links science museums and other informal science education organizations with nanoscale science and engineering research organizations. As only one award will be granted, this component of the program is highly competitive.
- **Nanotechnology Undergraduate Education (NUE):** This component aims at introducing nanoscale science, engineering, and technology through a variety of interdisciplinary approaches into undergraduate education, particularly in the first two collegiate years. Up to fifteen award will be granted for this component of the program.

A related program solicitation, *Nanoscale Science and Engineering* (NSF 04-043), is focused on fundamental research in emerging areas of nanoscale science, engineering, and technology. This related solicitation contains three components: *Nanoscale Interdisciplinary Research Teams (NIRT)*; *Nanoscale Exploratory Research (NER)*; and *Nanoscale Science and Engineering Centers (NSEC)*. Due dates vary by program: ***Letter of Intent Due Date(s) (required):** February 06, 2005 for the Nanoscale Informal Science Education (NISE) program only. The NUE program does not require a Letter of Intent. **Full Proposal Deadline(s):** April 06, 2005 for Nanotechnology Undergraduate Education (NUE), and April 06, 2005 for Nanoscale Informal Science Education (NISE). For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Undergraduate Research Center (URC)

National Science Foundation (NSF)

URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf05539>

Letter of Intent Due Date (required): March 07, 2005

Full Proposal Deadline: April 04, 2005

This program was developed to assist our nation in remaining globally competitive in technology and the sciences by seeking and developing talent groups that are typically underrepresented in the scientific, technical and engineering workforce. This program supports more students than NSF's Research Experiences for Undergraduates (REU) program, which engages too few students. This Undergraduate

Research (URC) program seeks new models and partnerships that have the potential (1) to expand the reach of undergraduate research to include first- and second-year college students; and (2) to enhance the research capacity, infrastructure, and culture of participating institutions, thereby strengthening the nation's research enterprise. Individually, the URCs will have significant impact on the undergraduate programs of participating institutions. Collectively, they will strengthen the nation's research enterprise by providing new mechanisms for attracting a larger, more diverse group of students to careers in the chemical sciences. The URCs emphasis on participation of first- and second-year students in research (the creation of new knowledge) will challenge the *imagination* and *creativity* of the community to rethink the directions of undergraduate education. For this program, research should be in the chemical sciences or in interdisciplinary areas supported by the chemical sciences. Because only one proposal may be submitted per institution, potential applicants should alert the Office of Research and Sponsored Programs of intent to apply as early as possible. **Anticipated Award Amount:** \$700,000. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Prototypes & Technology for Improvised Explosives Device Detection

Department of Homeland Security (DHS)

URL: <http://www.hsarpabaa.com>

Application Deadline: April 01, 2005

A critical area of focus for DHS is the protection of the homeland from the threat of high explosives in vehicles. In support of this critical focus area, the Homeland Security Advanced Research Projects Agency (HSARPA) is initiating the "Prototypes and Technology for Improvised Explosives Device Detection" (PTIEDD) Program. Its goals are:

- To develop, rapid prototype, and improve products and systems capable of detecting explosive compounds in vehicles;
- To support research and development of next generation or novel technologies or prototypes for detection of improvised explosives in vehicles, in leave-behind packages, or carried by suicide bombers.

The initiative is structured to solicit proposals for near term projects (TTA-1) where pre-production working prototypes are to be delivered and evaluated within 9 to 18 months after award. In addition, proposals are also solicited to design, develop, and demonstrate future or novel technologies and devices (TTA-2) that will significantly advance the state of the art in each critical area. The PTIEDD Program will require innovative or novel capabilities in multiple disciplines including material science, computer science, chemistry, physics, electrical, mechanical and systems engineering. In order to best accomplish the goals of the PTIEDD Program, HSARPA anticipates receiving proposals with innovative teaming that may include private sector organizations; government laboratories, including Federally Funded Research and Development Centers (FFRDCs); and academic institutions.

****SPECIAL NOTE**** Bidders are **REQUIRED TO REGISTER IN ADVANCE** to submit either a White Paper or full proposal. Bidders will not be permitted to submit, unless registered. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Scientific Computing Research Environments for the Mathematical Sciences *National Science Foundation (NSF)*

URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf05538>

Application Deadline: April 04, 2005

Scientific Computing Research Environments for the Mathematical Sciences (SCREMS) proposals are for computing environments dedicated to research in the mathematical sciences. Proposals may request support for the purchase of computing equipment and limited support for professional systems administrators or programmer personnel for research computing needs. These grants are intended to support research projects of high quality that require access to advanced computing resources. Requests for routine upgrades of standard desk-environment workstations or laptop computers are not appropriate for this program. Awards are made to provide support for specific research projects rather than to provide general computing capacity. Proposers are encouraged to include projects involving symbolic and algebraic computations, numerical computations and simulations, and graphical representations (visualization) in aid of the research. Proposals may be submitted by U.S. educational institutions with ongoing research programs in mathematics, applied mathematics, or statistics. Proposals involving inter-institutional or inter-departmental sharing arrangements are welcome. **Award Range:** \$50,000 to \$200,000. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Mathematical Social and Behavioral Sciences (MSBS): Facilitating Research Interactions Between the Mathematical and Statistical Sciences and the Social, Behavioral, and Economic Sciences *National Science Foundation (NSF)*

URL: <http://www.nsf.gov/pubs/2005/nsf05542/nsf05542.pdf>

Application Deadline: April 5, 2005

This solicitation requests proposals for projects that advance the mathematical or statistical foundations of research in the social, behavioral, or economic sciences. The research is expected both to further understanding of social and/or behavioral science phenomena and to address a topic of interest to the mathematical sciences. The goals of the Mathematical Social and Behavioral Sciences (MSBS) funding opportunity are to:

- Advance the development of mathematical and statistical methods and models for understanding social, behavioral, and economic science phenomena.
- Facilitate the interaction of social, behavioral, and economic scientists with mathematicians and statisticians.
- Promote the cross-training of students in the social, behavioral, and economic sciences with the mathematical and statistical sciences.
- Encourage the broad dissemination of results across both the social, behavioral, and economic sciences and the mathematical and statistical sciences.

In order to advance these goals, NSF invites proposals for the following activities: (1) research projects and (2) facilitation activities, such as workshops or symposia. **Estimated Number of Awards:** 9 to 15 - (6 to 10 research awards and 3 to 5 facilitation awards). **Anticipated Amount of Award:** \$200,000 to \$333,333. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

American National Election Studies (ANES) Competition

National Science Foundation (NSF)

URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf05537>

Application Deadline: May 06, 2005

The Political Science Program invites proposals from Ph.D.-holding scholar-investigators who possess the theoretical, methodological, measurement, and administrative skills, as well as the necessary resources, to undertake an important, large-scale, data-collection project on election campaigns, electoral choice, election outcomes, and citizen engagement in the United States. This “re-competition” will include three areas of emphasis: a Panel Component; a Core-Continuity Component; and an Experimental-Innovation Component. As only **one** award will be granted, this competition is highly competitive. The award will be used for primary data collection that will advance the quality of scientific inquiry and knowledge about election campaigns, electoral choice, election outcomes, and citizen engagement in the United States. The maximum award is \$7,600,000. The annual amount of the award is expected to be up to \$1,900,000; the duration of the award will be four years. The expected start date is January, 2006. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Instrument Development for Biological Research (IDBR)

National Science Foundation (NSF)

URL: <http://www.nsf.gov/pubs/2005/nsf05536/nsf05536.pdf>

Application Deadline: October 05, 2005

The Instrument Development for Biological Research (IDBR) Program supports the development of new or substantially improved instrumentation that is likely to have a significant impact on the study of biological systems at any level. The development of new or substantial improvement of existing software for the operation of instruments, analysis of data, or the analysis of images is also supported where these have the effect of improving instrument performance. The IDBR program provides support for development of the following:

- Concept and proof of novel instruments for biological research;
- New instruments that provide new capabilities for detection, measurement, and/or observation of biological phenomena, or that significantly extend currently achievable sensitivity, accuracy or resolution;
- Novel or substantially improved instruments for study of biological systems at any level of organization from molecules to ecosystems;
- Improved or novel software for the operation of instruments, or software that effectively improves instrument sensitivity, accuracy, resolution or speed; and
- New or improved devices for remote sensing of environmental and other information relevant to biological research, including novel software needed to network, operate, and collect data from such sensing devices.

The program also supports workshops in emerging areas of instrumentation and instrument development relevant to areas of biological research supported by the Directorate for Biological Sciences. While it is not required that instruments developed under these awards have multiple users, the IDBR program expects that the advances that result from its awards will lead to improved instrumentation that is of use to a broad set of potential users, and is likely to lead to significant advances in biological research.

Estimated Award: \$300,000 to \$750,000 total costs over 24 to 36 months, not including the cost of any equipment. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Funding Opportunities in Education and the Humanities

Early Reading First Program

Department of Education (DOE)

URL: <http://www.ed.gov/programs/earlyreading/applicant.html>

Pre-Application Deadline: February 7, 2005

Full Application Deadline: May 2, 2005

This program supports local efforts to enhance the oral language, cognitive, and early reading skills of preschool-age children, especially those from low-income families, through strategies, materials, and professional development that are grounded in scientifically-based reading research. This competition has two invitational and one competitive priority. For YR 2005, applications demonstrating invitational priorities will not necessarily be given a competitive or absolute preference over other applications. Applications demonstrating the competitive priority will be awarded an additional five (5) points to a pre-application and an additional five (5) points to a full application meeting this competitive priority.

- **Invitational Priority 1**—Intensity. This includes preschool programs that operate full-time, full-year early childhood educational programs, at a minimum of 6.5 hours per day, 5 days per week, 46 weeks per year, and that serve children for the two consecutive years prior to their entry into kindergarten.
- **Invitational Priority 2**--Children From Low-Income Families. This includes projects in which, in all preschool centers supported by the Early Reading First funds, at least 75 percent of the children enrolled in the preschool qualify to receive free or reduced priced lunches; or at least 75 percent of the children enrolled in the elementary school in the school attendance area in which that center is located qualify to receive free or reduced priced lunches.
- **Competitive Preference Priority**--Novice Applicant. The applicant must be a "novice applicant" as defined in 34 CFR 75.225. Please visit the following website (Edgar: 75.225) for further details: <http://www.ed.gov/policy/fund/reg/edgarReg/edlite-part75d.html>

Estimated Average Size of Awards: \$2,800,000. **Estimated Number of Awards:** 23-139. **Project Period:** Up to 36 months. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Research Apprenticeship Program for High School Students

U. S. Environmental Protection Agency (EPA)

URL: <http://www.epa.gov/ORD/NRMRL/fundopps/announce/tbn25388.htm>

Application Deadline: February 07, 2005

The U. S. Environmental Protection Agency, National Risk Management Research Laboratory is located in Cincinnati, Ohio and is the site of the Research Apprenticeship Program for High School Students. This request seeks institutions of higher education and other non-profit organizations to implement an eight week apprenticeship program for up to 15 high school students. The primary objective of the Cooperative Agreement is to increase the number and proficiency of students entering environmental science and engineering careers by providing research apprenticeships in EPA laboratories and in the recipient's facilities. Proposals should address the applicant's approach to:

- Identifying, screening, and selection of students with high science aptitudes for placement;
- Paying the necessary student salaries/stipends and administration of the program;

- Providing an enrichment program consisting of tours of environmental research facilities and presentations by environmental researchers; and
- Providing EPA with an evaluation of the program's effectiveness.

Public and private universities and colleges, and other public and private non-profit institutions are eligible to apply. Because only **one** award will be granted, this competition is considered highly competitive. **Award Range:** \$180,000 to \$240,000 **Award Period:** Three years. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Revised Guidelines for the National Leadership Grants for Libraries and Museums

Institute of Museum and Library Services (IMLS)

URL: <http://www.ims.gov/pubs/pdf/2005programs.pdf>

Deadline: February 1, 2005

Guidelines are now available for the updated National Leadership Grants for Libraries and for Museums, a program of the Institute of Museum and Library Services. National Leadership Grants are designed to enable libraries and museums to help all individuals attain the knowledge, skills, attitudes, behaviors, and resources needed to enhance their engagement in community, work, family, and society. Projects should enable libraries and museums to address current problems in creative ways, develop and test innovative solutions, and expand the boundaries within which cultural heritage institutions operate. The results of these projects — whether new tools, research, models, services, practices, or alliances — will help equip tomorrow's libraries and museums to better meet the needs of a nation of learners. The revised program features three new categories — Advancing Learning Communities, Building Digital Resources, and Research and Demonstration — under which both museum and library applicants may apply. Each of the three categories also encourages museums and libraries to partner with each other or with other community learning organizations. **Estimated Range of Award:** \$25,000 to \$1,000,000. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Informal Science Education (ISE)

National Science Foundation (NSF)

URL: <http://www.nsf.gov/pubs/2005/nsf05544/nsf05544.pdf>

Preliminary Proposals Deadline (required): March 18, 2005

Full Proposal Deadline: June 13, 2005

The purpose of the Informal Science Education (ISE) program is to support projects designed to increase public interest in, understanding of, and engagement with science, technology, engineering, and mathematics (STEM). The outcome of all ISE projects is an informed citizenry that has access to the ideas of science and engineering, and understands their role in enhancing the quality of life and the health, prosperity, welfare, and security of the nation. Informal education is the life-long learning process in which every person acquires knowledge, skills, attitudes, and values from daily experiences and resources in his or her environment. Informal learning is self-directed, voluntary, and motivated mainly by intrinsic interests, curiosity, exploration, and social interaction. This program promotes public engagement with, and understanding of, STEM through such means as exhibitions, media projects, and educational programs. ISE projects reach audiences of all ages and backgrounds across the nation in museums, theaters, community centers, and many other settings, including outdoor environments, as well as in their homes. All ISE projects have as their primary audience the informal learner -- from young child to senior citizen. Informal learning, in contrast with formal learning, refers to activities that are not primarily for school use or part of an ongoing school curriculum. Informal learning presumes voluntary participation as

opposed to the mandatory participation of a credited school activity. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Estimated Number of Awards: 50; Estimated Average Award: \$500,000.

Foundation Grants

Grant Opportunity for Public Libraries

Libraries for the Future and the MetLife Foundation

URL: http://www.lff.org/news/RA05_rfp.html

Application Deadline: March 4, 2005

Libraries for the Future, with support from MetLife Foundation, has announced a national book and film discussion series for teenagers and families, especially immigrant families, that will take place in public libraries. The MetLife Foundation Reading America Program is designed to use literature, film, and the neutral ground of the library to stimulate discussion that positively affects the relationship between the generations, especially those of new immigrant families. Libraries for the Future will select fifteen libraries nationwide for the program. Applications are encouraged from public libraries of all sizes as well as libraries that have not previously engaged in systematic outreach to newcomer families. Applicant libraries must work with one or more community organizations as partners. Libraries selected to participate in the program will receive a cash grant of \$5,000 to help initiate the program and cover their expenses. Information on the Reading America Program and the complete RFP are available from the Libraries for the Future Web site. Please visit this URL, cited above, for further information or contact the Office for Research and Sponsored Programs at ext. 3-6810.

Pilot Grants

American Foundation for Suicide Prevention

URL: <http://www.afsp.org/index-1.htm>

Upcoming Deadline: April 15, 2005

AFSP research grants are awarded to investigators conducting clinical, biological, or psychosocial research on the problem of suicide. Grants can be directed towards research on suicide from a variety of disciplines — psychiatry, medicine, psychology, genetics, epidemiology, neurobiology and many others. AFSP grants are awarded for one or two-year periods. **Pilot Grants** of up to \$20,000 provide seed money for new one or two-year projects and are awarded to individual investigators without regard to academic rank or previous suicide research experience. **Pilot grant applications** are accepted on **April 15, August 15, and December 15** with funding decisions made within 4-6 months. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Awards, Fellowships and Resident Scholar Programs

John W. Gardner Leadership Award

Independent Sector

URL: <http://www.independentsector.org/about/gardneraward.htm>

Deadline: January 31, 2005

The John W. Gardner Leadership Award was established by Independent Sector in 1985 to honor outstanding Americans who, in their own way, exemplify the leadership and ideals of John W. Gardner,

founding chairperson of Independent Sector. The award recognizes living Americans working in or with the voluntary sector who build, mobilize, and unify people, institutions, or causes. The award consists of \$10,000 and a replica of an original relief bust of John Gardner by the late sculptor Frederick Hart. Anyone may nominate an individual to receive the award. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

Elizabeth Neuffer Fellowship ***International Women's Media Foundation***

URL: <http://iwmf.org/programs/neuffer>

Application Deadline: February 25, 2005

The International Women's Media Foundation invites applications for the Elizabeth Neuffer Fellowship, a new program that supports women journalists who report on human rights and social justice issues. The fellowship combines research opportunities at MIT's Center for International Studies and other Boston-area universities with reporting opportunities at the New York Times and the Boston Globe. The fellowship is named for a Boston Globe reporter who was a 1998 winner of the IWMF's Courage in Journalism Award. Elizabeth Neuffer was killed in May 2003 while covering the war in Iraq. The IWMF has established this project in collaboration with Neuffer's family and friends. The flexible structure of the fellowship will allow the fellow to design a program that combines academic research with practical experience covering human rights. The fellow will also have a key role in the Elizabeth Neuffer Forum on Human Rights and Journalism, an annual program to be held in May. The fellowship will run from September 2005 to May 2006. Successful applicants will be dedicated to a career in journalism in print, broadcast, or Internet media and show a strong commitment to sharing knowledge and skills with colleagues upon the completion of the fellowship. Excellent written and spoken English skills are required. Expenses, including air fare and housing, will be covered. For further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

The Dibner Library of the History of Science and Technology Resident Scholar Program & Baird Society Resident Scholar Program ***The Smithsonian Institution***

URL: <http://www.sil.si.edu/researchintern/index.htm#dib>

Application Deadline: March 1, 2005

The Smithsonian Institution Libraries currently offers the following two Resident Scholar Programs:

- **The Dibner Library of the History of Science and Technology Resident Scholar Program**
The Dibner Library of the History of Science and Technology Resident Scholar Program, supported by The Dibner Fund, awards stipends of \$2,500 per month for up to six months for individuals working on a topic relating to the history of science and technology who can make substantial use of collections in the Dibner Library. Historians, librarians, doctoral students, and post-doctoral scholars are welcome to apply. Scholars must be in residence at the Dibner Library during the award period. Scholars wanting to do research in other areas of SIL Special Collections should apply for the Baird Society Resident Scholar Program.
- **Baird Society Resident Scholar Program**
The Baird Society Resident Scholar Program awards stipends of \$2,500 per month for up to six months for individuals working on a topic relating to the holdings of SIL's special collections. Baird Society Resident Scholars will do research in SIL's special collections located in Washington, DC and New York City. These special collections include printed materials on world's fairs in the Dibner Library (19th and early 20th centuries); manufacturer's commercial trade catalogs in the National Museum of American History Library (285,000 pieces representing

30,000 companies dating from the 19th and 20th centuries) used to study American industrialization, mass production, and consumerism; natural history rare books in the Cullman Library (pre-1840 works on topics such as botany, zoology, travel & exploration, museums & collecting, geology, and anthropology); air and space history in the National Air and Space Museum Library's Ramsey Room (ballooning, rocketry, and aviation, late 18th to early 20th centuries); James Smithson's library in the Cullman Library; and European and American decorative arts, architecture, and design in the Cooper-Hewitt National Design Museum Library's Bradley Room (18th to 20th centuries). Historians, librarians, doctoral students, and post-doctoral scholars are welcome to apply. Scholars must be in residence at the Smithsonian during the award period. Scholars wanting to do research primarily in the collections of the Dibner Library of the History of Science and Technology should apply for the Dibner Library Resident Scholar Program. or further information, please visit the URL cited above or call the Office for Research and Sponsored Programs at extension 3-6810.

For information and assistance regarding grant opportunities, 24 hours a day, visit:

www.hofstra.edu/grants

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