



Office of Research and Sponsored Programs

Newsletter, February 2010

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ANNOUNCEMENTS

HAITI EARTHQUAKE ASSISTANCE

Haiti's earthquake emergency will continue long after the last survivor has been lifted from the rubble. Millions of people will need help in the coming months and years to restore their lives.

Metasoft is trying to do its part to assist those that can most effectively help the people of this stricken country. As a leader in the provision of fundraising information, opportunities and resources for charities and non-profits, Metasoft believes they are in an ideal position to help. Metasoft is offering—free of charge—critical funder location assistance to those of you, and others you may know, who are directly helping with Haitian relief efforts. This help will be provided by their professional services group, Grant Development Services (GDS).

To get help, please e-mail gds@foundationsearch.com or call Morgan Trerise at 1-888-638-2763.

NSF'S NEW GRANT GUIDELINES FOR 2010

Follow the link below to download the PDF of the new grant guidelines. A summary of significant changes is also posted at this site.

http://www.nsf.gov/pubs/policydocs/pappguide/nsf10_1/index.jsp

GRANTS.GOV SUBMISSION GUIDELINES

Due to heavy traffic on the grants.gov server, ORSP has been advised to begin the submissions process to grants.gov two working days prior to the submission deadline date. This means ORSP needs your completed proposal **four** days prior to the submission deadline. . If you wish to apply for a grant through grants.gov, contact Beth Rieger at brieger@fgcu.edu.

ORSP WEBSITE

ORSP offers a multitude of services to assist you in preparing and submitting grant applications. Our website at <http://www.fgcu.edu/orsp> provides easy access to the forms, announcements, and other useful materials. We would like to include links to websites associated with the many externally funded projects currently active. Send the URLs to dstremke@fgcu.edu and the link will be added to ORSP's site.

HAVE YOU COMPLETED YOUR GENIUS/SMARTS PROFILE IN INFO ED?

In order to process your proposals, ORSP needs a GENIUS/SMARTS investigator profile in our web-based database system. To edit a Genius profile, use an on-campus computer (or an official connection to our network) and go to <http://fgcu-mako.primary.ad.fgcu.edu>. Click on "Login"; then on "Profile"; and proceed to edit the information contained in your profile. Please select keywords (found under the SMARTS link) that describe your research interests. For further assistance please contact Lucia Soria at asoria@fgcu.edu. . If you have a GENIUS/SMARTS profile, you can search InfoEd's SPIN Plus from any on-campus computer (or with an official connection to our network) to find funding. Call Lucia at ext.7020 to send you instructions.

ORSP PROGRAM: STUDENT TRAVEL AWARDS

ORSP supports enrolled FGCU students by providing funds on a first-come, first-serve basis so they can present their scholarly works at conferences. ORSP staff will assist the students with the necessary paperwork, both before and after the travel. Within 30 days of travel completion, all awardees are required to submit a one-page report to ORSP describing the benefit of the award and the overall experience. Awardees are required to participate in Research Day in April. The guidelines and application form are at: <http://www.fgcu.edu/orsp/internalPrograms.html>

ORSP PROGRAM: FACULTY TRAVEL AWARDS

ORSP provides travel awards up to \$1,000 for faculty to attend technical workshops or other related activities for the purpose of increasing chances of obtaining a grant. The trip must result in a proposal sub-mission through ORSP. The application consists of the following items: a 50-100 word abstract of the proposed project; workshop information or the specific purpose of the trip; and an estimated budget for travel expenses. Guidelines and application are at:

<http://www.fgcu.edu/orsp/internalPrograms.html>

DO YOU NEED HELP WITH PROPOSAL PREPARATION?

Please contact Beth Rieger at brieger@fgcu.edu to assist you set up your budget and to complete your proposal/application package. ORSP will then enter the budget information into the sponsor's budget form for you and provide you with a copy to help you prepare the budget justification. ORSP needs to receive your completed proposal package three business days (four business days for grants.gov) before the submission deadline. We ensure all the required forms are attached and that your proposal is compliant with the specifications outlined in the RFP/RFA. Remember that additional forms, releases, and agreements may be required, so make sure you allow enough time for these documents to be prepared. If ORSP receives the completed proposal with less than the three (or four) business days' lead time, we cannot guarantee that the proposal will be submitted.

CONGRATULATIONS

AWARDS DURING THE LAST MONTH

Academic Affairs			
ROBERTS, Thomas	FGCU-ORSP	Confocal Microscope Maintenance	\$34,000.00
ROBERTS, Thomas	FGCU-ORSP	ORSP Statistical Support	\$18,000.00
College of Arts & Sciences			
COX, John	Florida Department of Education	Commissioner's Task Force on Holocaust Education	\$20,000.00
College of Business			
REGELSKI, Dan	University of West Florida	SBDC 2010	\$351,830.00
College of Education			
HIBBARD, Susan	Boys & Girls Club of Collier County	Boys & Girls Club Program Project 2009-2010	\$4,000.00
HIBBARD, Susan	Southwest Florida Workforce Development Board, Inc.	Evaluation for Miracle Plus 3 Project	\$1,500.00
		Evaluation for Miracle Plus 2 Project	\$2,000.00
		Evaluation for Miracle Plus 1 Project	\$2,000.00
SULLIVAN, Peg	University of South Florida	PIRC Evaluation 2008	\$42,718.00
Student Affairs			
DOYLE, Cathy	District School Board of Collier County	Collier County Services for Scholar's Club 2007-2008	\$10,000.00
WGCU Public Media			
JOHNSON, Rick	Corporation for Public Broadcasting	FM Fiscal Stabilization Grant	\$17,808.58

SUBMISSIONS DURING THE LAST MONTH

College of Arts and Sciences			
AUSTIN, Rebecca	Rookery Bay ELC	Project Greenscape Literature Review: Perceptions of Landscapes	\$5,000.00
BOURGEOIS, Martin Hatz, Jessica	National Science Foundation	Factors Affecting Accuracy at Detecting Lies	\$172,019.00
College of Business			
GUO, Dahai	National Science Foundation	New Paradigm of Roadway Development	\$173,167.00
Zalewski, Janusz		Expansion of Web-Based Real-Time Software Engineering Lab	\$517,877.00
ZALEWSKI, Janusz	National Science Foundation		
College of Professional Studies			
MESLOH, Charlie	FGCU-ORSP	Beanbag Munition Kinetic Energy Testing	\$5,000.00
MESLOH, Charlie	FGCU-ORSP	Video Arcade System Alternative to Firearms Simulator Technology	5,000.00
WGCU Public Media			
JOHNSON, Rick	Public Radio International	World Have Your Say	\$ 5,000.00
JOHNSON, Rick	Environmental Protection Agency	Turn it Off!	\$27,274.00
JOHNSON, Rick	Corporation for Public Broadcasting	TV Fiscal Stabilization 2010	\$69,671.94

FUNDING OPPORTUNITIES

BUSINESS

INVESTOR EDUCATION

The FINRA Investor Education Foundation, formerly known as the NASD Investor Education Foundation, supports innovative research and educational projects that give investors the tools and information they need to better understand the markets and the basic principles of saving and investing. Of particular interest to the Foundation are projects that:

- Expand the body of knowledge and/or provide practical materials that will have a positive impact on investor education or protection
- Research methods to improve disclosure to investors about investments and financial services
- Encourage investors to check the background of financial professionals prior to doing business with them
- Empower the nation's young people that are about to enter the workforce to better prepare for retirement and to meet other financial goals
- Better prepare older Americans for handling their finances during retirement
- Encourage women and minority populations to take control of their financial future through investor education
- Advance practice, policy, and thought in the fields of investor education and protection

The Foundation seeks to fund projects that advance its mission through:

- **Educational projects or programs.** Funding is for programs that respond to an unmet investor education or protection need for a target audience.
- **Research.** Funding is for research that expands the body of knowledge and offers solutions in the field of investor education and protection.
- **Combination of research and educational program.** Funding is for initiatives that lead with a research element and follow with a high-impact investor education or investor protection project based upon the results of the research

The first step in applying for a FINRA Foundation grant is the submission of the Project Concept Form. This three-page form assists the FINRA Foundation in assessing the applicant's eligibility for funding and the extent to which the proposed project furthers the [*FINRA Foundation's priorities*](#). Certain applicants will be invited to submit a full grant proposal. Applicants invited to prepare a full proposal will be provided with detailed submission instructions.

<http://www.finrafoundation.org/grants/general/guidelines/index.htm>

Deadline: March 4, 2010

(This program first appeared in the ORSP January Newsletter.)

ENVIRONMENTAL

MARINE DEBRIS PREVENTION AND OUTREACH PARTNERSHIP GRANTS

The NOAA Marine Debris Program (MDP) has a lead role in addressing marine debris affecting the marine environment and navigation safety in the United States. The MDP defines marine debris as any persistent solid material that is manufactured or processed and directly or indirectly, intentionally or unintentionally, disposed of or abandoned into the marine environment or the Great Lakes.

The MDP invites the public to submit applications requesting funding to establish multi-year national and regional partnerships focusing on utilizing existing networks and expanding on existing resources to address marine debris through prevention, education, and outreach activities, and the dissemination and/or development of tools to support these activities. Partnerships are expected to catalyze the public or a target audience to address marine debris in a way that will benefit living marine resources and/or navigation safety.

Partnership applications selected through this announcement will be implemented through a cooperative agreement, and will involve joint selection of any multiple marine debris projects funded as sub-awards made through the partner organization. This is not a request for individual project proposals addressing marine debris; rather it is a focused effort to establish partnerships between the applicant and the MDP that will lead to joint projects addressing marine debris prevention and outreach. Funding is contingent upon the availability of Fiscal Year 2010 appropriations.

<http://marinedebris.noaa.gov/funding/welcome.html#outreach>

Deadline: Feb 18, 2010

COASTAL WETLANDS CONSERVATION GRANT PROGRAM

The National Coastal Wetlands Conservation Grant Program is offering this solicitation for coastal wetland restoration. Projects can include (1) acquisition of a real property interest (e.g., conservation easement or fee title) in coastal lands or waters (coastal wetlands ecosystems) from willing sellers or partners for long-term conservation or (2) restoration, enhancement, or management of coastal wetlands ecosystems. All projects must ensure long-term conservation. Examples of restoration efforts that could be funded include:

- Restoring wetland hydrology by plugging drainage ditches, breaking tile drainage systems, installing water control structures, dike construction, or re-establishing historic connections with waterways or
- Planting native vegetation and/or removing invasive plants and animals that compete with native fish and wildlife and alter native habitats.

<http://www.fws.gov/coastal/CoastalGrants/>

Deadline: Jun 25, 2010 via grants.gov

WATER SUSTAINABILITY AND CLIMATE

The goal of this solicitation is to understand and predict the interactions between the water system and climate change, land use, the built environment, and ecosystem function and services through place-based research and integrative models. Studies of the water system using observations at specific sites in combination with models that allow for spatial and temporal extrapolation to other regions, as well as integration across the different processes in that system are encouraged, especially to the extent that they advance the development of theoretical frameworks and predictive understanding.

http://www.nsf.gov/pubs/2010/nsf10524/nsf10524.txt?WT.mc_id=USNSF_179

Deadlines: March 15, 2010 (Letter of Intent); April 15, 2010 (full proposal)

INTERNATIONAL CONSERVATION OF MARINE TURTLES

The Marine Turtle Conservation Fund solicits proposals for the conservation of marine turtles throughout their range outside of the United States by focusing on:

- Academic and technical training in the conservation and management of marine turtles;
- Applied research on marine turtle populations and their habitats, including surveys and monitoring;
- Conservation education and community outreach for the protection of nesting and near shore foraging populations;
- Development and execution of marine turtle conservation management plans;
- Habitat conservation and management;
- Information exchange to promote international collaboration;
- Projects to protect nesting females and eggs on important nesting beaches;
- Promotion of networks, partnerships and coalitions that assist in the implementation of conventions, treaties, protocols and other international activities for the conservation and management of marine turtles;
- Protected area/reserve management of important nesting beaches;
- Strengthening local capacity to implement conservation programs on nesting beaches; and
- Strengthening law enforcement capacity and forensics skills through training and equipment.

Applicant organizations should be conducting project work directly on populations occurring outside the United States, or the results of research should have direct bearing on and benefits for marine turtle populations outside the United States. Applied research projects should address specific management needs and actions, and threats from emerging issues such as disease and climate change that affect the species and their habitats.

<http://www.fws.gov/international/DIC/pdf/NOFAMarineTurtle2010.pdf>

Deadline: October 1 and April 1 of each year

EXPLORING NEW AIR POLLUTION

The U.S. Environmental Protection Agency, as part of its Science to Achieve Results program, seeks applications proposing to use existing datasets from health studies to analyze health outcomes for which the link to air pollution is not well established, or to evaluate underlying heterogeneity in health responses among subgroups defined by susceptibility or extent and/or composition of exposure.

EPA is interested in supporting research on the analysis of health effects associated with exposure to particulate matter (PM), ozone, and other air pollutants, both singly and in multipollutant atmospheres. Proposals that seek to evaluate the health effects of one or more significant air pollutants are appropriate under the RFA. Such pollutants can include particulate matter (PM), categories of size-fractionated PM, constituents of PM, gaseous criteria pollutants, and gaseous PM co-pollutants, including related toxic air pollutants. In recent years, air pollution scientists and policy makers have recognized the potential benefits of adopting a multipollutant approach to evaluating health impacts of air pollution and management of air quality (National Research Council, 2004b). These include more realistic estimates of health risk that capture interactions among multiple pollutants and the potential for more cost effective approaches to controlling emissions.

Air pollutants originate from direct emissions from a multitude of sources as well as through atmospheric transformations of emission precursors. Consequently, air masses typically contain many pollutants present in differing amounts depending on the types of sources affecting an area and atmospheric conditions. The shift in focus to a multipollutant research program acknowledges that real-world exposures involve complex mixtures of a wide variety of air contaminants in several physical-chemical classes. Studies focused on a single pollutant should account for the presence of other co-pollutants in selected exposures of interest.

http://www.epa.gov/ncer/rfa/2010/2010_star_air_poll.html

Deadline: April 27, 2010

HEALTH

THE MESSAGE THERAPY FOUNDATION RESEARCH GRANTS PROGRAM

The Massage Therapy Foundation advances the knowledge and practice of massage therapy by supporting scientific research, education, and community service. Awards are granted to support high quality, independent research which contributes significantly and directly to the basic knowledge of massage therapy and/or its application, including applied research which investigates massage therapy as a health/mental health treatment and/or prevention modality. Research Grants are available to investigators who:

- Have experience in the relevant field of research;
- Are presently associated with or have secured the cooperation of a university, independent research organization, health center, or other institution qualified and willing to function as a Sponsoring Organization for the purpose of this project. A Sponsoring Organization must have sufficient facilities as well as human and informational resources available to support the proposed research project, as determined by the Massage Therapy Foundation at its sole discretion;
- New investigators without prior research experience must document support from an experience investigator willing to act as a collaborator. Collaborators should be actively involved in the development and execution of the proposed research project and should be identified as such in the staffing plan.

Grants will normally be awarded for a 12-month period for \$1,000 - \$30,000. Projects of more than 12 months duration must be presented in full with total multi-year budget in this proposal. If funds are awarded for the first 12 months, continuation of funding can be requested in the next annual funding cycle.

http://www.massagetherapyfoundation.org/grants_research.html

Deadline: March 1, 2010 (postmark)

(This program first appeared in the ORSP January Newsletter.)

DRUG FREE COMMUNITIES SUPPORT PROGRAM

The Executive Office of the President, Office of National Drug Control Policy and the Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Center for Substance Abuse Prevention are accepting applications for fiscal year 2010 Drug Free Communities Support Program grants. The purpose of this program is to establish and strengthen collaboration to support the efforts of community coalitions working to prevent and reduce substance use among youth. DFC is a collaborative initiative sponsored by ONDCP in partnership with SAMHSA in order to achieve two major goals:

- Establish and strengthen collaboration among communities, public and private nonprofit agencies, and Federal, State, local, and tribal governments to support the efforts of community coalitions to prevent and reduce substance use among youth. For the purposes of this RFA, "youth" is defined as individuals 18 years of age and younger.
- Reduce substance use among youth and, over time, reduce substance abuse among adults by addressing the factors in a community that increase the risk of substance abuse and promoting the factors that minimize the risk of substance abuse.

<http://samhsa.gov/Grants/2010/SP-10-005.aspx>

Deadline: March 19, 2010

INTEGRATED TECHNOLOGY INTO NURSING EDUCATION AND PRACTICE INITIATIVE

This initiative provides support to nursing collaboratives for faculty development in the use of information and other technologies in order to expand the capacity of collegiate schools of nursing to educate students for 21st century health care practice.

Eligible applicants are accredited collegiate schools of nursing capable of carrying out the initiative's purpose. Any program of nurse education must be accredited by a national nurse education accrediting agency or State approval agency recognized by the Secretary of the U.S. Department of Education.

<http://www.grants.gov/search/search.do?mode=VIEW&oppId=51230>

Deadline: Feb 25, 2010

HUMANITIES

AMERICAN HISTORY AND CULTURE: WORKSHOPS FOR SCHOOL TEACHERS

The NEH Landmarks of American History and Culture program supports series of one-week residence-based workshops for a national audience of K-12 educators. NEH Landmarks of American History and Culture workshops use historic sites to address central themes and issues in American history, government, literature, art, music, and other related subjects in the humanities.

Awards will range between \$150,000 and \$180,000 in outright funds, assuming that a one-week session costs approximately \$75,000 to \$90,000. The award period is fifteen months: October 1, 2010, to December 31, 2011.

<http://www.neh.gov/grants/guidelines/Landmarks.html>

Deadline: March 16, 2010 via grants.gov.

(This program first appeared in the ORSP January Newsletter.)

AMERICAN HISTORY AND CULTURE: WORKSHOPS FOR COMMUNITY COLLEGE FACULTY

The NEH Landmarks of American History and Culture program supports series of one-week residence-based workshops for a national audience of community college educators. NEH Landmarks of American History and Culture workshops use historic sites to address central themes and issues in American history, government, literature, art, music, and other related subjects in the humanities. Awards for Landmarks workshops for community college faculty will range between \$110K and \$160K in outright funds, assuming that a one-week session costs approximately \$55K to \$80K. The award period is fifteen months: October 1, 2010, to December 31, 2011.

<http://www.neh.gov/grants/guidelines/landmarksc.html>

Deadline: March 16, 2010 via grants.gov.

(This program first appeared in the ORSP January Newsletter.)

NEH SUMMER SEMINARS AND INSTITUTES

These grants support faculty development programs in the humanities for school teachers and for college and university teachers. NEH Summer Seminars and Institutes may be as short as two weeks or as long as six weeks. The duration of a program should allow for a rigorous treatment of its topic. NEH Summer Seminars and Institutes:

- extend and deepen knowledge and understanding of the humanities by focusing on significant topics, texts, and issues;
- contribute to the intellectual vitality and professional development of participants;
- build a community of inquiry and provide models of excellent scholarship and teaching; and
- promote effective links between teaching and research in the humanities.

An NEH seminar or institute may be hosted by a college, university, school system, learned society, center for advanced study, library or other repository, or a cultural or professional organization. The host site must be appropriate for the project, providing facilities for scholarship and collegial interaction.

<http://www.neh.gov/grants/guidelines/seminars.html>

Deadline: March 2, 2010 via grants.gov.

(This program first appeared in the ORSP January Newsletter.)

BALANCING FAMILY LIFE WITH CAREERS

The 2009 Elsevier Foundation New Scholars Program will give priority to the efforts of the academic and research community to address the fundamental challenge of balancing childcare and family responsibilities with the demanding academic careers in science, health, and technology. The program is focused on doctoral candidates and scholars in the first five years of their post-doctoral careers. Grant proposals are welcome for:

- Programs that enable scientists to attend conferences, meetings, workshops and symposia that are critical to the development of a career in science by helping them with childcare and other family responsibilities when attending scientific gatherings.
- Programs that, as part of an institutional commitment to advancing women in science, provide support to promising new scientists to attend scientific gatherings.
- Programs to encourage networking and mentorship within the institutions and disciplines in ways that support the challenges of faculty and staff with family responsibilities.
- Research, advocacy, and policy development to advance knowledge, awareness and application of programs to retain, recruit and develop women in science.
- Proposals from broad geographic regions, including developing countries and other resource-constrained settings are encouraged. Preference will be given to proposals that clearly demonstrate the following:
 - Innovative program ideas
 - An institutional commitment to advancing women in science, including policies, programs and leadership.
 - Programs that will serve as models and will encourage continued efforts to advance women in science.
 - Proposals that promote partnerships and knowledge sharing among institutions, including between institutions in the developed and developing world.
 - Realistic budgets tied to outcomes.
 - Programs with clear criteria and objectives to be achieved through the grant funding.

Proposals are welcome for single-year grants in amounts between \$5,000 to \$50,000 or for multi-year programs (up to three years) for grant amounts of \$5,000 to \$50,000 per year.

<http://www.elsevierfoundation.org/New%20Scholars%20guidelines.html>

Deadline: August 1, 2009

ELECTRONIC RECORDS PROJECTS

The National Historical Publications and Records Commission seeks proposals that will increase the capacity of archival repositories to create electronic records archives that preserve records of enduring historical value. The NHPRC supports efforts by archivists and records managers to meet the challenges of electronic records. Projects must involve institutions that have already established archives and records management programs.

- **Start-up projects** develop the capacity of institutions to prepare to capture and preserve electronic records, through program planning.
- **Collaborative projects** establish and/or improve electronic records archives by engaging in effective and innovative collaborations.

<http://www.archives.gov/nhprc/announcement/electronic.html>

Deadlines: April 1, 2010 (optional draft); June 3, 2010 via grants.gov

(This program first appeared in the ORSP January Newsletter.)

ARCHIVES AND HISTORICAL PROFESSIONAL TRAINING

The National Historical Publications and Records Commission seeks proposals to improve the training and education of professionals in the archival and historical publishing communities. Projects can be for professional education curriculum development; for basic and advanced institutes; or research seminars. Surveys, focus groups, and other activities to understand these professions and their educational and training needs are also eligible. In general, projects should anticipate results that will affect individuals in more than a single state. If your project is focused only on a single state, the proposal narrative must explain why the State Historical Records Advisory Board in your state cannot manage the proposed project. If staff review cannot find the information, the application will be ineligible.

A grant normally is for one to three years and up to \$150,000. The Commission expects to make up to 4 grants in this category, for a total of up to \$300,000 during the two rounds in a fiscal year. Cost sharing is required. The NHPRC will provide up to 50 percent of the total project costs.

<http://www.archives.gov/nhprc/announcement/development.html>

Deadlines: June 3, 2010; October 7, 2010

(This program first appeared in the ORSP January Newsletter.)

PUBLISHING HISTORICAL RECORDS

The National Historical Publications and Records Commission seeks proposals to publish historical records of national significance. Projects may focus on the papers of major figures from American life or cover broad historical movements in politics, military, business, social reform, the arts, and other aspects of the national experience. The historical value of the records and their expected usefulness to broad audiences must justify the costs of the project. Grants are awarded for collecting, describing, preserving, compiling, editing, and publishing documentary source materials. The NHPRC does *not* fund proposals to purchase historical records; it also does *not* fund proposals to publish the papers of anyone who has been deceased for fewer than ten years. Eligible Activities Include:

- Scholarly documentary editions in printed and bound volumes.
- Scholarly documentary editions in online and other formats.
- Image editions in online, microfilm, and other formats.
- Conversion of existing print and microfilm editions to electronic publications.
- Combinations of the above.

Applicants may apply for funding up to three years. Applicants should be aware that the Commission normally awards grants on an annual basis; subsequent funding is conditioned on previous years' project performance. Award amounts ordinarily range from \$20K to \$250K annually. Cost sharing is required. The Commission ordinarily provides no more than 50 percent of total project costs for Publishing Historical Records projects.

<http://www.archives.gov/nhprc/announcement/publishing.html>

Deadline: June 3, 2010 (Colonial and Early National Period)

Deadline: October 7, 2010 (New Republic through the Modern Era)

(This program first appeared in the ORSP January Newsletter.)

IMPROVING HISTORICAL RECORDS

The National Historical Publications and Records Commission seeks proposals to develop new strategies and tools that can improve the preservation, public discovery, or use of historical records. Projects may also focus on techniques and tools that will improve the professional performance and effectiveness of those who work with such records, such as archivists, documentary editors, and records managers. Projects must anticipate results that will affect more than a single institution or a single state.

A grant normally is for one to three years. The Commission expects to make one to three grants of between \$50K and \$150K. The total amount allocated to this category is up to \$350K. Cost sharing is required. The Commission provides no more than 75% of total project costs.

<http://www.archives.gov/nhprc/announcement/strategies.html>

Deadline: June 3, 2010 and October 7, 2010

(This program first appeared in the ORSP January Newsletter.)

DIGITIZING HISTORICAL RECORDS

The National Historical Publications and Records Commission seeks proposals that use cost-effective methods to digitize nationally significant historical record collections and make the digital versions freely available online. Projects must make use of existing holdings of historical repositories and consist of entire collections or series. The materials should already be available to the public at the archives and described so that projects can re-use existing information to serve as metadata for the digitized collection.

<http://www.archives.gov/nhprc/announcement/digitizing.html>

Deadline: June 3, 2010

(This program first appeared in the ORSP January Newsletter.)

THE HUDSON PRIZE

The Black Lawrence Press awards this prize for an unpublished collection of poems or short stories. The winner of this contest will receive book publication, a \$1,000 cash award, and ten copies of the book. This prize is awarded to an unpublished collection of poems or short stories. There is a required entry fee of \$25. All finalists will be considered for standard publication. In addition to each year's winner, Black Lawrence Press often offers standard publication to one or more other finalists.

<http://www.blacklawrencepress.com/>

Deadline: March 31, 2010 (Receipt)

INTERDISCIPLINARY

NSF ENVIRONMENTAL SYNTHESIS CENTER

NSF seeks to establish a new environmental synthesis center to stimulate research, education and outreach at the interface of the biological, geological, and social sciences. The center will foster synthetic, collaborative, cross-disciplinary efforts to understand and predict the complex interactions among ecological populations, communities and ecosystems, the geophysical environment, and human actions and decisions that underlie global environmental change. It will play a pivotal role in forecasting adaptive responses to environmental change and understanding sudden shifts in dynamic systems. The center will also directly involve policy makers, managers, and conservation efforts, and educate an informed citizenry. The center will be international in its scope, addressing the most pressing challenges posed by global environmental change. The center represents a new effort, based on NSF's substantial investments in ongoing synthesis activities, and is not intended to extend or duplicate these activities. The Biological Sciences Directorate expects this center to lead the next generation of synthesis activities.

http://www.nsf.gov/pubs/2010/nsf10521/nsf10521.htm?WT.mc_id=USNSF_25

Deadline: **March 23, 2010 (required preliminary proposal);**
July 14, 2010 (full proposal)

(This program first appeared in the ORSP January Newsletter.)

HUMAN FRONTIER SCIENCE PROGRAM

The Human Frontier Science Program supports **innovative** basic research into **fundamental** biological problems with emphasis placed on **novel** and interdisciplinary approaches that involve scientific exchanges across national and disciplinary boundaries. In the past decade biological research has become increasingly quantitative rather than descriptive. The participation of scientists from disciplines outside the traditional life sciences such as biophysics, chemistry, computational biology, computer science, engineering, mathematics, nanoscience or physics has contributed to this change and will continue to do so. Such collaborations have opened up new approaches for understanding the complex structures and regulatory networks that characterize living organisms, their evolution and interactions.

http://www.hfsp.org/how/appl_forms_RG.php

Deadline: **March 31, 2010 (required letter of intent) via HFSP extranet site.**
Mid-September 2010 (invited full proposals)

ORSP has registered on the HGSP website. PIs must also register. Please contact Beth Rieger or Donna Stremke for details.

(This program first appeared in the ORSP January Newsletter.)

CANCER PREVENTION

The American Cancer Society invites applications that investigate the impact of healthcare costs, healthcare system and capacity, insurance status, social factors and delivery of health care services, on outcomes in cancer prevention, early detection and treatment. Due to the large number of meritorious proposals received in 2009, the set aside dollars for this RFA (\$1,000,000) have already been expended for 2009 so there are no specific set aside dollars for such research this cycle. However, this is an area of special interest to the Society and we therefore encourage applications, both new and revised applications. Although there is no set aside for these studies in this cycle, applicants will be eligible for funding from the general pool of funds for cancer

control research. Applicants will be competing against other applicants whose studies focus on a variety of other areas of health policy and health services research.

The American Cancer Society is particularly interested in developing new knowledge specifically about the role played by insurance within the context of other factors, such as costs, capacity and personal characteristics, that affect outcomes in cancer prevention, early detection and treatment. In particular, studies should explore these issues within the uninsured and under-insured populations, Medicaid, and types of private insurance (HMO, PPO, etc.).

Three areas of investigation will receive special consideration:

- 1) How does the structure and capacity of the healthcare system affect appropriate and timely access to cancer screening, early detection, treatment and palliative care? Examples of such studies include (but are not limited to):
 - a) How do insurance plan benefit designs or costs affect access to cancer screening and treatment? How do plans with high deductibles/co-payments/coinsurance, low annual or lifetime maximums, or significant benefit limits such as number of hospital days or physician's visits, influence use of cancer screening and treatment services as well as treatment patterns and quality of care? How do these design effects vary across geographic regions and/or at-risk populations?
 - b) Do high risk pools and new insurance instruments (including insurance pools for those diagnosed with cancer such as the programs in Maine and Delaware) increase access to screening and treatment? How do these various products compare with private insurance in affecting access to screening and detection services?
 - c) Is there sufficient capacity (facilities and personnel) within the healthcare system for cancer prevention, screening, treatment and palliative care needs? Would there be sufficient capacity if access to care is increased? What are the root causes of incapacities?
- 2) What provider and system factors affect treatment patterns and quality of cancer care within the current healthcare systems? Examples of such studies include (but are not limited to):
 - a) What provider and system incentives affect treatment patterns and quality of care, for underserved populations?
 - b) How does level of reimbursement for cancer prevention, screening, and treatment services affect access to care and outcomes?
 - c) How does standardization of cancer treatment patterns affect outcomes? What are the benefits of standardization of care?
 - d) What is the impact of coordination of care and/or having a "medical home" on treatment patterns and outcomes for cancer patients?
 - e) How do discontinuities or changes in health insurance (i.e., losing and gaining coverage over relatively short periods of time) affect access to care, treatment patterns, and outcomes, and quality of care for individuals with cancer?
- 3) Explore life course patterns of the entire spectrum of cancer care (from prevention and screening through diagnosis, treatment, survivorship, and supportive/palliative care) by linking diverse data sources for broad patient populations. Examples of such studies include (but are not limited to):

- a) What factors (such as changes in insurance status, community resources, policy interventions, etc.) are associated with differences in life course patterns throughout the spectrum of cancer care?
- b) What prevention, screening, and/or treatment patterns can be demonstrated for broad populations of individuals with cancer by linking diverse sources of existing data?

http://img.delivery.net/cm50content/19439/RFA/HP_RFA_Jan_2010.pdf

Deadline April 1, 2010

ARRA ENHANCED REGISTRIES FOR QUALITY IMPROVEMENT AND COMPARATIVE EFFECTIVENESS RESEARCH

Comparative effectiveness research is the conduct and synthesis of research comparing the benefits and harms of different interventions and strategies to prevent, diagnose, treat and monitor health conditions in “real world” settings. The purpose of this research is to improve health outcomes by developing and disseminating evidence-based information to patients, clinicians, and other decision-makers, responding to their expressed needs about which interventions are most effective for which patients under specific circumstances.

- To provide this information, comparative effectiveness research must assess a comprehensive array of health-related outcomes for diverse patient populations and sub-groups.
- Defined interventions compared may include medications, procedures, medical and assistive devices and technologies, diagnostic testing, behavioral change, and delivery system strategies.
- This research necessitates the development, expansion, and use of a variety of data sources and methods to assess comparative effectiveness and actively disseminate the results.

The current list of priority conditions includes:

- Arthritis and non-traumatic joint disorders
- Cancer
- Cardiovascular disease, including stroke and hypertension
- Dementia, including Alzheimer's disease
- Depression and other mental health disorders
- Developmental delays, attention-deficit hyperactivity disorder and autism
- Diabetes mellitus
- Functional limitations and disability
- Infectious diseases including HIV/AIDS
- Obesity
- Peptic ulcer disease and dyspepsia (digestive system conditions)
- Pregnancy including pre-term birth
- Pulmonary disease/asthma
- Substance abuse

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HS-10-020.html>

Deadline: March 29, 2010

MARCH OF DIMES RESEARCH PROGRAM

The March of Dimes invites applications for research grants directed at the prevention of birth defects. Appropriate research subjects appropriate include basic biological processes governing development, genetics, clinical studies, studies of reproductive health, environmental toxicology, and social and behavioral studies. Social and Behavioral Sciences applications should propose

research that advances understanding of the cognitive and behavioral risks that affect outcomes of pregnancy, the perinatal period, and subsequent child development.

Potential applicants should submit electronically the required administrative information and a Letter of Intent addressed to the Senior Vice President for Research and Global Programs summarizing the proposed studies via our online system at

<http://researchgrants.marchofdimes.com/loi>.

The Letter of Intent must include the following information in this order:

1. The objective.
2. The relevance to birth defects or reproductive health.
3. The hypothesis or hypotheses to be tested.
4. Preliminary data.
5. A statement of the methods of procedure.
6. A plan for evaluating the results.
7. Current financial support: list each current grant or contract for the conduct of this research. If there are no other grants, state "NONE."
8. If this is a request for a renewal of a current March of Dimes grant or Basil O'Connor phase-in application, it must include a summary of its progress.

These grants do not cover the recipient's or other faculty salaries, but do provide salary support for technical help. The grants are awarded for a three-year period, range of \$59,416 - \$129,690

http://www.marchofdimes.com/professionals/691_14434.asp

Deadline: April 30, 2010

JOURNALISM

NEW VOICES REQUEST FOR PROPOSALS - 2010

Is something missing in your local **media** landscape? Are you craving news and information sources that energize, **engage** and build a sense of **community** and connection? Are you ready to **be** the media you wish to see in your town? The institute for Interactive Journalism invites you to **apply for funding** to launch a participatory news venture in your community. Each project may receive up to \$25K. Only start-up news initiatives can receive funding. Ongoing efforts are not eligible unless they are proposing a new project or product.

Projects can produce news and information for a geographic area--a small town, city, county, state or region--or a community of interest. Grantees may receive up to \$25K. They will receive \$17K the first year and are eligible for \$8K in matching funds in the second year.

<http://www.i-newvoices.org/site/story/2010rfp/>

Deadline: March 1, 2010 via their on-line system.

ORSP has registered in this system. Please contact Beth Rieger or Donna Stremke for details.

(This program first appeared in the ORSP January Newsletter.)

SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS

NSF FUTURE INTERNET ARCHITECTURES

Recognizing the need for a secure and highly dependable information technology infrastructure and building on our on-going investments in network science and engineering, the Directorate for Computer and Information Science and Engineering (CISE) has formulated this program to stimulate innovative and creative research to explore, design, and evaluate trustworthy future Internet architectures. The objective is to engage the research community in collaborative, long-range, transformative thinking - unfettered by the constraints of today's networks yet inspired by lessons learned and promising new research ideas - to design and experiment with new network architectures and networking concepts that take into consideration the larger social, economic and legal issues that arise from the interplay between the Internet and society.

http://www.nsf.gov/pubs/2010/nsf10528/nsf10528.htm?WT.mc_id=USNSF_179#elig

Deadline(s): April 22, 2010

MAJOR RESEARCH INSTRUMENTATION PROGRAM

The NSF Major Research Instrumentation Program serves to increase access to shared scientific and engineering instruments for research and research training in our Nation's institutions of higher education, museums, science centers, and not-for-profit organizations. This program especially seeks to improve the quality and expand the scope of research and research training in science and engineering, by providing shared instrumentation that fosters the integration of research and education in research-intensive learning environments. Development and acquisition of research instrumentation for shared inter- and/or intra-organizational use are encouraged, as are development efforts that leverage the strengths of private sector partners to build instrument development capacity at academic institutions.

To accomplish these goals, the MRI program assists with the acquisition or development of shared research instrumentation that is, in general, too costly and/or not appropriate for support through other NSF programs. Instruments are expected to be operational for regular research use by the end of the award period. For the purposes of the MRI program, proposals must be for *either* acquisition *or* development of a single instrument or for equipment that, when combined, serves as an integrated research instrument (physical or virtual). The MRI program does not support the acquisition or development of a suite of instruments to outfit research facilities or to conduct independent research activities simultaneously.

Instrument acquisition or development proposals that request funds from NSF in the range of \$100,000-\$4 million will be accepted from all eligible organizations. Proposals that request funds from NSF less than \$100,000 will also be accepted from all eligible organizations for the disciplines of social, behavioral and economic sciences and from non-Ph.D.-granting institutions of higher education for all NSF-supported disciplines.

Applicants are limited to three applications per institution. If three proposals are submitted, at least one of the proposals must be for instrument development (i.e., no more than two proposals may be for instrument acquisition). **Please submit an abstract to Donna Stremke in ORSP**

via e-mail attachment no later than Tuesday, March 10, 2010. The Faculty Senate Grants & Research Team will evaluate presentations from the authors and will make submission recommendations to the respective Deans.

http://www.nsf.gov/pubs/2010/nsf10529/nsf10529.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Deadline(s): April 21, 2010

PAN-AMERICAN ADVANCED STUDIES INSTITUTES PROGRAM

The Pan-American Advanced Studies Institutes Program is a jointly supported initiative between the Department of Energy and the National Science Foundation. Pan-American Advanced Studies Institutes are short courses ranging in length from ten days to one month, involving lectures, demonstrations, research seminars, and discussions at the advanced graduate, post-doctoral, and junior faculty level.

PASIs aim to disseminate advanced scientific and engineering knowledge and stimulate training and cooperation among researchers of the Americas in the mathematical, physical, and biological sciences, the geosciences, the computer and information sciences, and the engineering fields. Proposals in other areas funded by NSF may be considered on an ad hoc basis; in this case, lead investigators must consult with the PASI Program before proposal submission. Whenever feasible, an interdisciplinary approach is recommended. Proposers must not submit more than one PASI proposal for which they are the lead organizer in any two-year period. No indirect costs are allowed.

http://www.nsf.gov/pubs/2010/nsf10517/nsf10517.htm?WT.mc_id=USNSF_179

Deadline: March 19, 2010; January 15, Annually Thereafter

(This program first appeared in the ORSP January Newsletter.)

PRESIDENTIAL AWARDS FOR EXCELLENCE IN SCIENCE, MATHEMATICS AND ENGINEERING MENTORING

The PAESMEM Program seeks to identify outstanding mentoring efforts that enhance the participation of groups (women, minorities, and persons with disabilities) that are underrepresented in science, technology, engineering, and mathematics. The awardees serve as leaders in the national effort to develop fully the Nation's human resources in science, technology, engineering, and mathematics.

Approximately 16 awards will be made in each nomination round. These will be distributed over the individuals and organizations as is appropriate in a given round. The PI is the nominee and only one nomination per individual or program will be considered. An individual may wish to make a self nomination. This is allowable; no Co-PI is necessary. There is no limit on the number of submissions by an organization. Multiple programs or individuals from one institution may be nominated in a year; however a program or individual can be nominated only one time. No indirect costs are allowed.

http://www.nsf.gov/pubs/2010/nsf10520/nsf10520.htm?WT.mc_id=USNSF_25

Deadlines: March 23, 2010 (for 2010 nominations)

October 06, 2010 (for 2011 nominations)

First Wednesday in October, Annually Thereafter

(This program first appeared in the ORSP January Newsletter.)

NSF ALLIANCES FOR BROADENING PARTICIPATION IN STEM

The Alliances for Broadening Participation in STEM solicitation includes the Louis Stokes Alliances for Minority Participation (**LSAMP**) program, Bridge to the Doctorate (**LSAMP-BD**) Activity, **LSAMP educational research projects**.

This portfolio of programs seeks to increase the number of students successfully completing quality degree programs in STEM. Particular emphasis is placed on transforming STEM education through innovative academic strategies and experiences in support of groups that historically have been underrepresented in STEM disciplines: African-Americans, Alaskan Natives, Native Americans, Hispanic Americans, and Native Pacific Islanders. The **educational research portfolio** contributes to the body of literature of successful practices in student recruitment, retention, persistence, and attainment of STEM undergraduate and graduate degrees, especially for populations underrepresented in STEM disciplines.

http://www.nsf.gov/pubs/2010/nsf10522/nsf10522.htm?WT.mc_id=USNSF_25

Deadline(s): March 24, 2010 (full proposal, Bridge to the Doctorate Proposals)

April 07, 2010 (Innovation through Institutional Integration)

October 08, 2010 (LSAMP & LSAMP Educational Research Proposals)

(This program first appeared in the ORSP January Newsletter.)

CYBERINFRASTRUCTURE FRAMEWORK FOR 21ST CENTURY SCIENCE AND ENGINEERING

It is imperative that NSF develop a strategic long term vision of what is being called a *Cyberinfrastructure Framework for 21st Century Science and Engineering (CF21)*. This vision will need to address concepts and capabilities such as:

- High end computational, data, visualization and sensor-based systems and the associated user support needed for transformative science;
- HPC systems and services of all types and flavors, networking, interoperable data systems and mining, including a focus on sustainability and extensibility.
- Activities that link cyberinfrastructure framework into campuses (including government and business) and programs that provide the widely dispersed, most broadly based activities and resources; grids, cloud computing, loosely coupled campus services, federated ID management and hybrid networks involving wireless and social networks.
- Major national and international research facilities and collaborations including large-scale NSF collaborative facilities and projects, cyberinfrastructure developed across NSF and other government agencies, including international partners.
- A comprehensive plan for education and outreach in computational science to support learning and workforce development for 21st century science and engineering.

OCI has begun a process to partner with Directorates across NSF to help develop and establish the vision for Cyberinfrastructure Framework for 21st Science and Engineering. The NSF-wide Advisory Committee for Cyberinfrastructure (ACCI) has established 6 Task Forces and has asked them to address long-term cyberinfrastructure issues. The Task Forces are as follows:

- Campus Bridging
- Data
- Grand Challenges
- High Performance Computing
- Software and Tools
- Work Force Development

OCI has also established a Cyberinfrastructure Coordinating Committee (CICC) within NSF to help address CI efforts and plans across NSF. The Task Forces and CICC are beginning to create working documents and meeting notes. Draft versions of these documents will be posted on an external wiki for public access and comment:

https://nsf.sharepoint.com/acci_public/default.aspx. Members of the community who are interested in tracking or contributing to CF21 activities are encouraged to send an email to acci-task-forces@nsf.gov.

(This program first appeared in the ORSP January Newsletter.)

DEPARTMENT OF THE NAVY RESEARCH AND DEVELOPMENT

The Naval Surface Warfare Center solicits scientific and engineering research "white papers" to identify capabilities of University and Non-Profit Institutions to conduct basic research, applied research, and advanced research projects in a wide variety of scientific and engineering disciplines. **NSWC is seeking submission of capability statements only.** Research projects are expected to require a high level of technical expertise, primarily involving PhD level personnel; personnel requirements include, but are not limited to, the following categories: distinguished postdoctoral, senior postdoctoral, postdoctoral, professors, and graduate students.

NSWC anticipates making multiple awards of grants, cooperative agreements, other transactions, or contracts. When appropriate, research grants will be the preferred award method.

<https://www.fbo.gov/index?s=opportunity&mode=form&id=19bed3b41180fea87997eb9f9c8a1b3&tab=core&cview=0&cck=1&au=&ck=>

Deadline: September 30, 2010

(This program first appeared in the ORSP January Newsletter.)

MEASUREMENT, SCIENCE AND ENGINEERING RESEARCH GRANTS

The National Institute of Standards and Technology (NIST) announces that the following programs are soliciting applications for financial assistance for FY 2010:

- Electronics and Electrical Engineering Laboratory Grants Program;
- Manufacturing Engineering Laboratory Grants Program;
- Chemical Science and Technology Laboratory Grants Program;
- Physics Laboratory Grants Program;
- Materials Science and Engineering Laboratory Grants Program;
- Building Research Grants and Cooperative Agreements Program;
- Fire Research Grants Program;
- Information Technology Laboratory Grants Program;
- NIST Center for Neutron Research Grants Program;
- Center for Nanoscale Science and Technology Grants Program;
- Technology Services Grants Program.

<http://edocket.access.gpo.gov/2009/pdf/E9-29825.pdf>

Deadlines vary by programs. Submission is via grants.gov.

(This program first appeared in the ORSP January Newsletter.)

NSF CELLULAR SYSTEMS CLUSTER

The Cellular Systems Cluster, one of three thematic areas within the [Division of Molecular and Cellular Biosciences](#), supports research into the structure and organization of cells and the dynamics of cellular processes. The Cellular Systems cluster is interested not only in traditional

areas of cell biology (such as the organization, function, and dynamics of membranes, organelles and other subcellular compartments, and intra-cellular and transmembrane signal transduction mechanisms and cell-cell signaling processes) but also in the development of quantitative, theory-driven approaches to cell biology that integrate experimental studies at the molecular genetic, biochemical, biophysical, transcriptomic and proteomic levels. Network theory (e.g., as applied to signal transduction) and molecular dynamic modeling (e.g., as applied to the structure/function relationships of cellular structures) are also of particular interest. While proposals using approaches and model systems traditional in the field of cell biology are welcome, studies focused on novel, unique approaches and on non-traditional model organisms are encouraged.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12772

Deadline: July 12, 2010

(This program first appeared in the ORSP January Newsletter.)

NSF CYBER-PHYSICAL SYSTEMS

NSF's Directorates for Computer and Information Science and Engineering and Engineering are spear-heading the Cyber-Physical Systems (CPS) program because of its scientific and technological importance as well as its potential impact on grand challenges in a number of sectors critical to U.S. security and competitiveness, including aerospace, automotive, chemical production, civil infrastructure, energy, healthcare, manufacturing, materials and transportation. By abstracting from the particulars of specific applications in these domains, the CPS program aims to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. The CPS program will also support the development of methods and tools as well as hardware and software components, run-time substrates, and systems based upon these principles to expedite and accelerate the realization of cyber-physical systems in a wide range of applications. Furthermore, the program aims to create a new research and education community committed to the study and application of cyber-physical system innovations, through the establishment of a CPS Virtual Organization (CPS-VO) and regular PI meetings.

<http://www.nsf.gov/pubs/2010/nsf10515/nsf10515.pdf>

Deadlines: March 11, 2010

Second Thursday in March, Annually Thereafter

(This program first appeared in the ORSP January Newsletter.)

NSF PROACTIVE RECRUITMENT IN INTRODUCTORY SCIENCE AND MATHEMATICS

The goal of the NSF program in Proactive Recruitment in Introductory Science and Mathematics is to strengthen the nation's scientific competitiveness by increasing the numbers of well prepared, successful U.S. undergraduate majors and minors in science and mathematics. The program will fund innovative, potentially transformational partnerships between the mathematical sciences and other science or engineering disciplines that widen the cross section of the mathematical sciences to which freshman and sophomore students are exposed and that provide these students increased opportunities for research experiences involving the mathematical sciences.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503460

Deadline : March 8, 2010 via NSF Fastlane or Grants.gov.

(This program first appeared in the ORSP January Newsletter.)

GENDER IN SCIENCE AND ENGINEERING

The Research on Gender in Science and Engineering program supports efforts to understand and address gender-based differences in science, technology, engineering, and mathematics (STEM) education and workforce participation through research, the diffusion of research-based innovations, and extension services in education that will lead to a larger and more diverse domestic science and engineering workforce. Typical projects will contribute to the knowledge base addressing gender-related differences in learning and in the educational experiences that affect student interest, performance, and choice of careers; how pedagogical approaches and teaching styles, curriculum, student services, and institutional culture contribute to causing or closing gender gaps that persist in certain fields. Projects will communicate and apply findings, evaluation results, and proven good practices and products to a wider community.

The program does not currently fund intervention or education projects that directly serve students as their primary purpose, or that focus solely on evaluating a student intervention. Research projects may involve an intervention with students as subjects only if the intervention is an integral part of creating a context for gathering data and if the findings from the intervention would substantially answer the research questions posed within the context of theory, concepts or frameworks of interest. There should be meaningful control or comparison groups also included in the design when appropriate.

<http://www.nsf.gov/pubs/2010/nsf10516/nsf10516.htm>

Deadlines: *February 10, 2010 (required Letter of Intent)*
 March 23, 2010 (Full Proposal)

(This program first appeared in the ORSP January Newsletter.)

ADVANCING THEORY IN BIOLOGY

The NSF Biological Sciences Directorate invites submission of proposals that advance our conceptual and theoretical understanding of living systems. The Advancing Theory in Biology (ATB) announcement supports the development of new theoretical approaches that will improve our understanding of general biological principles that account for phenomena that occur independently across levels of biological organization. Proposals may vary in size and duration, in the number of investigators involved, and in the nature of collaborations. Awards will not exceed a total of \$750,000 over a three year period. This total includes all participants in collaborative projects.

The ATB announcement calls for the development of new theory, or the significant extension of existing theory, to provide an explanatory framework for themes or phenomena that are common at two or more levels of biological organization. This theory should address data or observations with far-reaching implications for understanding key biological processes and their fundamental consequences. The theory should cut across established disciplines in order to further our understanding of general biological principles, to understand diverse phenomena under these principles, to guide model construction and experimentation, and to identify new organizing principles. Some examples of new theoretical frameworks include, but are not limited to

- a common constructive framework for how biological ‘modules’ are created, maintained and integrated at all levels of biological organization (e.g., molecule, cell, organ, individual, community, ecosystem)

- theory to account for the roles of cooperation, competition and antagonism as essential components of system optimization.
- a common framework to link basic principles of energy, information or material flow at discrete levels of biological organization.
- a framework to account for the contextual content and context-dependency of information flow or other biological phenomena.

Proposals that do not address phenomena or processes that occur at a minimum of two levels of biological organization will be returned without review.

http://www.nsf.gov/pubs/2010/nsf10525/nsf10525.htm?WT.mc_id=USNSF_179

Deadline: *April 13, 2010 via grants.gov or NSF FastLane*

NSF/FDA SCHOLAR-IN-RESIDENCE AT FDA

This activity supports research and collaborations with investigators in the intramural Food and Drug Administration laboratory research program including opportunities for faculty, postdoctoral fellows, and students to conduct engineering and scientific research on topics contributing to public health and to gain experience related to emerging medical device technologies in a research setting, both individually and in collaborative teams.

The following opportunities are options to be considered, and may be combined or modified in alternative arrangements to meet the objectives of the program. Such alternate proposals should represent comparable levels of commitment and interaction.

1. **Faculty at FDA** - For science, engineering, and mathematics faculty to conduct research for 3-12 months at FDA. Awards from NSF will range from \$25,000 to \$150,000 for up to one year and may include 85% of faculty salary and fringe benefits during the FDA residency period. Up to 20 percent of the total requested amount may be used for travel and research expenses for the faculty member and his/her students at the FDA, including materials; and up to 15 percent of the total cost may be allocated for administrative expenses in lieu of indirect costs for the home institution.
2. **Graduate Student Fellowship** -- For science, engineering, and mathematics graduate students for 1-4 semesters of full- or part-time work at FDA in an area related to his/her research under the guidance of an academic advisor and an FDA mentor. Awards will be for up to one year with award amounts typically up to \$35,000, and may include the following: a stipend of up to \$2,100 per month for 1-4 semesters (3-24 months); transportation expenses for the graduate student; a 10 % allowance for the faculty advisor for research-related expenses; and an additional allowance up to 15 % of the total direct cost for the sponsoring academic institution for administrative costs, in lieu of indirect costs.
3. **Postdoctoral Fellowship** -- For engineering, science, and mathematics fellows for full-time work at FDA under the guidance of an FDA mentor. Awards from NSF will be for amounts up to \$80,000 per year for 1-2 years and may include the following: 85 % of the stipend including fringe benefits for the postdoctoral fellow. The award may also include transportation and moving expenses (up to \$3,000); up to 10 % of the total budget allowance may be used by a faculty advisor for research-related expenses; and an allowance of up to 15 % of the total direct cost for a sponsoring academic institution for administrative expenses, in lieu of indirect costs.

4. **Undergraduate Student Research Experiences** -- For engineering, science, and mathematics undergraduate students for summer projects, or 1-2 semesters of part-time or full-time work at FDA in an area related to his/her academic program under the guidance of an academic advisor and an FDA mentor. Awards include stipends in amounts typically \$450 per student per week, in addition to other participant costs of room and board, fees, and travel. Total project costs are expected to be typically \$700 to \$900 per student per week. Total project cost per student may be about \$8,000 for summer projects.

Topics addressed in awards under this activity need not focus on fundamental issues only, but should be oriented toward generic research within an intellectual envelope shared by FDA. Typically, FDA scientists and researchers will participate in the merit review of proposals submitted under this so. Investigators are expected to integrate research objectives with educational and human resources goals and FDA scientific priorities.

Proposals to NSF must be accompanied with a letter of invitation from FDA, following procedures described more fully below. FDA will host up to 10 NSF scholars and awardees to be in residence at any one time under this activity. Interested applicants should contact the designated NSF Directorate coordinator to learn more about the procedures for proposal preparation, submission, and evaluation.

http://www.nsf.gov/pubs/2010/nsf10533/nsf10533.htm?WT.mc_id=USNSF_25&WT.mc_ev=click
Deadline April 27, 2010

UNDERGRADUATE RESEARCH AND MENTORING IN THE BIOLOGICAL SCIENCES

The goal of the **Undergraduate Research and Mentoring in the Biological Sciences (URM)** program is to increase the number and diversity of individuals pursuing graduate studies in all areas of biological research supported by the NSF Directorate for Biological Sciences. Support will be provided to academic institutions to establish innovative programs to engage undergraduates in a year-round research and mentoring activity. Particular emphasis will be placed on broadening participation of members of groups historically underrepresented in science and engineering: African Americans, Alaska Natives, American Indians, Hispanic Americans, Native Hawaiians and other Pacific Islanders, and persons with disabilities. URM proposals should involve year-round mentoring and include a major emphasis on direct student participation in research leading to publishable data.

URM projects may be based in a single discipline or academic department, or on interdisciplinary or multi-department research opportunities. A proposal should reflect the unique combination of the proposing organization's interests and capabilities and those of any partnering organizations.

Students are expected to be recruited early in their academic career. The project should frame all student activities around an effective mentoring strategy. Factors that are known to increase the likelihood that students will successfully enter and complete graduate research programs should be emphasized. For example, student co-authorship in peer-reviewed publications and scientific conference presentations can be an effective motivator for a student to pursue graduate education. If appropriate, projects may include outreach activities. International collaborations are encouraged.

Applicants are limited to one per institution. **Please submit an abstract to Donna Stremke in ORSP via e-mail attachment no later than Tuesday, March 9, 2010.** If more than one abstract is received, the Faculty Senate Grants & Research Team will evaluate presentations from the authors and will make submission recommendations to the respective Deans.

http://www.nsf.gov/pubs/2010/nsf10531/nsf10531.htm?WT.mc_id=USNSF_179#pgm_desc_txt

Deadline: April 26, 2010