



# Office of Research and Sponsored Programs

## Newsletter, March 2010

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## ANNOUNCEMENTS

### NSF HANDBOOK ON INTERNATIONAL REU SITES

<http://www.nsf.gov/pubs/2006/nsf06204/index.html>

NSF has published a handbook of best practices for International Research Experiences for Undergraduates. The link above takes you right to it.

### 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](mailto: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 2010 grant guidelines. A summary of significant changes is also posted at this site.

[http://www.nsf.gov/pubs/policydocs/pappguide/nsf10\\_1/index.jsp](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](mailto: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](mailto: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](mailto: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](mailto: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.

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## CONGRATULATIONS

### AWARDS DURING THE LAST MONTH

<b>College of Arts &amp; Sciences</b>			
AUSTIN, Rebecca	Rookery Bay	Project Greenscape Literature Review:	\$5,000.00
CEILLEY, David Everham, Edwin	Department of Environmental Protection	Water Quality Technical Support 2009-2014	\$24,900.00
FAUERBACH, Michael	University of Central Florida	Absolute Photometric Measurements of Asteroids 2009-2010	\$4,000.00
FUGATE, David Parsons, Mike	National Science Foundation	Laboratory Research and Teaching Flume	\$230,821.56
KELLY, Sean	Southwest Florida Community Foundation	Humane Animal Research Group	\$23,548.00
TOLLEY, S. Gregory	Florida Department of Environmental Protection	Coral Reef Conservation 2009-2014	\$68,169.05
VOLETY, Aswani	South Florida Water Management District	Ten Thousand Islands Oyster Monitoring Study	\$17,500.00
<b>College of Business</b>			
PEGNETTER, Richard	Alico Corporation	Alico Corporation Endowed Chairs	\$48,300.00
RODRIGUEZ, Walter	SWF Workforce Development Board, Inc.	Workforce Training Program 2009 - 2011	\$13,000.00
ZALEWSKI, Janusz	University of Central Florida	FUNSAT VI Project	\$750.00
<b>College of Education</b>			
GREENE, Marci	Naples Children & Education Foundation	Early Learning Literacy	\$55,100.00
GREENE, Marci Nowak, Leigh Anna	Department of Education	Center For Autism and Related Disabilities	\$24,000.00
<b>College of Health Professions</b>			
RODGERS, Marianne	FGCU Foundation	Edith Potter Deats Professorship	\$1,600.00
RODGERS, Marianne	FGCU Foundation	SW FL Endowed Nursing Chair	\$16,300.00
<b>WGPU Public Media</b>			
JOHNSON, Rick	Corporation for Public Broadcasting	FM Fiscal Stabilization Grant	\$17,808.58
<b>SUBMISSIONS DURING THE LAST MONTH</b>			
<b>College of Arts and Sciences</b>			
COTICONE, Sulekha	FGCU-ORSP	Detection and Identification of Trace Evidence on Different Surfaces in Forensic Analysis	\$5,000.00
URAKAWA, Hidetoshi	FGCU-ORSP	Ecological role of Microbial Community on a Nutrient pool in the Caloosahatchee River and Estuary	\$5,000.00
<b>College of Business</b>			
KIRCHE, Elias	FGCU-ORSP	Building an Interdisciplinary Quality Control Laboratory	\$5,000.00
<b>College of Education</b>			
GREENE, Marci Isaacs, Maddy	Florida Department of Education	Teacher Recruitment - Transition to Teaching 2010	\$80,000.00
<b>WGPU Public Media</b>			
BUSSON, Terry Banyan, Margaret	US Department of Agriculture/ National Science Foundation	Renewable Energy Resilient Communities	\$394,068.00

## FUNDING OPPORTUNITIES CRIMINAL JUSTICE

### ELECTRONIC CRIME AND DIGITAL EVIDENCE RECOVERY

NIJ is seeking applications for funding to develop emerging electronic crime and digital evidence recovery technology solutions for law enforcement agencies. The specific areas of interest under this solicitation are:

- Faster and more efficient data acquisition technology.
- Cell phone forensic acquisition and analysis tools and technologies including boot loaders.
- Forensic and investigative tools and technologies to investigate criminal use of Internet anonymizers.
- Damaged hard drive data recovery and forensic examination tools.
- Macintosh forensic tools.

In addition to applications proposing to develop new solutions, NIJ will also consider applications proposing to demonstrate, test, or evaluate existing cutting edge solutions in these areas of interest that have not yet been adopted into practice.

In addition to considering proposals from all eligible applicants in the areas of interest described above, on an invitational basis, NIJ may consider applications requesting supplemental funding to continue work on prior-year competitively awarded grants in the areas of: peer-to-peer forensic technologies; data hiding and encryption; live computer system capture and triage tools; data carving tools; and imaging tools for networks and network-attached devices.

<http://www.ncjrs.gov/pdffiles1/nij/sl000901.pdf>

**Deadline: April 2, 2010**

### IMPROVED DELIVERY OF INFORMATION TO THE OFFICER AT THE SCENE

NIJ seeks applications for funding to develop solutions to improving the capability of mobile (handheld) computing devices to deliver information to the officer at the scene in a timely manner. NIJ is specifically interested in solutions that will provide new, or expanded, data management and analytical capabilities with improved utilization of available bandwidth.

NIJ is most interested in solutions that enhance the capability of mobile devices already in service. A successful applicant's proposal will focus on State and local law enforcement needs and will address the following issues:

- How state and local law enforcement practitioners will play an active role in the development and testing of any solution proposed in response to this solicitation.
- How the particular solution will increase the effectiveness and efficiency of State and local law enforcement.
- What type of deliverable will result from the research and development of the solution described in the applicant's proposal.

- How the solution or tool will be distributed to law enforcement.

All proposed solutions, where applicable, must involve the use of open standards and meet criminal justice needs for interoperability and data protection. If the proposal includes the use of open-source software, the applicant should thoroughly discuss the following elements of open-source use: business model, distribution, source code, derivative works, distribution of license, and technology manuals and supporting documentation.

**Equipment deliverables:** At least one sample of any equipment or software code developed under projects receiving funding must be provided to NIJ, including training and any operating or maintenance manuals or instructions.

<http://www.ncjrs.gov/pdffiles1/nij/sl000913.pdf>

**Deadline:** *April 5, 2010*

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## EDUCATION

### EVALUATION OF STATE AND LOCAL EDUCATION PROGRAMS AND POLICIES

The Institute of Education Sciences invites applications for research projects that will contribute to its research program in Evaluation of State and Local Education Programs and Policies (State/Local Evaluation).

The June and September application due dates correspond to the Institute's regular research grant application due dates. The Institute established the April application due date for the State/Local Evaluation competition to provide an opportunity for the evaluation of activities that are funded through Phase 1 and Phase 2 applications to the U.S. Department of Education's Race to the Top Fund.

Information on the Race to the Top Fund is available on the U.S. Department of Education's website (<http://www.ed.gov/programs/racetothetop/index.html>). Through the Race to the Top Fund, the U.S. Department of Education will award grants to States, as defined under section 14006(a)(2) of the American Recovery and Reinvestment Act of 2009 (i.e., each of the 50 States, the District of Columbia, and the Commonwealth of Puerto Rico). **Only applications to evaluate activities funded through Phase 1 or Phase 2 Race to the Top Awards will be accepted for the April 1, 2010 due date.**

Separate announcements will be available on the Institute's website that pertain to the other research and research training grant programs funded through the Institute's National Center for Education Research and to the discretionary grant competitions funded through the Institute's National Center for Special Education Research (<http://ies.ed.gov/>). An overview of the Institute's research grant programs is available at <http://ies.ed.gov/funding/overview.asp>.

**Deadlines:** *April 1; June 24; September 16.*

## ENVIRONMENTAL

### 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](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)**

*(This program first appeared in the ORSP February Newsletter.)*

### 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;
- Strengthening local capacity to implement conservation programs on nesting beaches; and
- Strengthening law enforcement capacity and forensics skills through training and equipment
- 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;

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**

*(This program first appeared in the ORSP February Newsletter.)*

## 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.

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

**Deadline: April 27, 2010**

*(This program first appeared in the ORSP February Newsletter.)*

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## HEALTH

### 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**

*(This program first appeared in the ORSP February Newsletter.)*

## DIABETES ACTION RESEARCH

Diabetes Action is committed to funding promising and innovative diabetes research with a special interest in alternative, complementary, integrative, and nutritional therapies to prevent, treat, and cure diabetes and its complications. Please contact [Dorothy Harriot](#) to request a 2010 Grant Application due 6/4/10. All grant applications will be reviewed by the [Medical Advisory Board](#).

<http://www.diabetesaction.org/site/PageServer?pagename=research#cure>

**Deadline: June 4, 2010**

## NURSING RESEARCH AND EVIDENCE-BASED PRACTICE PROJECTS

The Daisy Foundation provide grants in Nursing Research and Evidence-Based Practice in memory of Patrick Barnes. The goals are:

1. **For the Foundation:** Funding research and evidence-based practice projects links our yearning to impact treatment of patients with auto-immune diseases and cancer and our passion for the compassionate work nurses do in medical facilities all over the country.
2. **For Nurses:** This program provides support for nurses who
  - Continually evaluate their practice
  - Seek answers to clinical questions in an effort to improve their practice
  - Change their practice based on evidence and evaluation of that change
3. **For Patients With Auto-Immune Diseases and Cancer:** Nurses will improve care outcomes as a result of their findings!

To be eligible, you must be a registered nurse with a current license. Research must impact patients or family members of patients with an **auto-immune disease or cancer**. Studies that will benefit patients both within and outside of your institution will receive priority. *If your study's demographics do not include a significant percentage of patients with an auto-immune disease or cancer, it will not qualify.* Applicants should be ready to implement their projects immediately following funding from The DAISY Foundation.

Only projects approved by your IRB or which have been exempted in writing by your IRB will be considered. A copy of your IRB approval will be required prior to our funding your grant. (You may, however, apply for a grant while IRB approval is pending.)

Funds may be used only for direct expenses, including:

- Printed materials for study
- Small equipment
- Supplies (including software)
- Subject compensation to participate in the study
- Consultant fees up to \$500, if justified

<http://www.daisyfoundation.org/patrick.htm>

**Deadlines:** *April 2, 2010 (Letters of Intent)*  
*May 28, 2010 (invited full proposals)*

## 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/landmarkscc.html>

**Deadline: March 16, 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.
  - 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 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:

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**

*(This program first appeared in the ORSP February Newsletter.)*

## **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.

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 per cent 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)**

**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)**

*(This program first appeared in the ORSP February Newsletter.)*

## **DON & GEE NICHOLL FELLOWSHIPS IN SCREENWRITING**

Fellowships are for screenwriters who have not earned more than \$5,000 writing fictional work for film or television. Entry scripts must be the original work of one writer, or the collaborative work of two writers, and must be written originally in English. Adaptations and translated scripts are not eligible.

Up to five \$30,000 fellowships are awarded each year to promising new screenwriters. From the program's inception in 1986 through 2009, over \$2.8 million have been awarded to 121 writers.

### **Entry Requirements**

- original feature film screenplay approximately 90 to 120 pages in length (there is no page limit) in PDF format only
- fill out the online application form
- early bird entry fee of US \$30 (by 11:59 p.m. Pacific Time April 1) or regular deadline entry fee of US \$45 (by 11:59 p.m. Pacific Time May 1)

You may create an [online account](#) at any time. When the competition opens each year, you may use that account to apply online. Follow the links to the Log In page. The online system allows entrants to submit an application form electronically, pay the entry fee with a credit card and submit a PDF version of their script. It also allows entrants to confirm receipt of their entry and to update their contact information at any time during the competition. PDF or Word versions of the application are no longer available as entrants may only enter via the online application.

**Deadline: May 1.**

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

**Deadlines:** **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](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. An RFA focusing on this area of focus was initiated in 2007 and will be in place until December 2011, with \$1 million set aside dollars each year. This is an area of special interest to the Society and we therefore encourage applications, both new and revised applications.

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?
- 2) What provider and system factors affect treatment patterns and quality of cancer care within the current healthcare systems?
- 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.

[http://img.delivery.net/cm50content/19439/RFA/HP\\_RFA\\_Jan\\_2010.pdf](http://img.delivery.net/cm50content/19439/RFA/HP_RFA_Jan_2010.pdf)

**Deadline: April 1, 2010**

*(This program first appeared in the ORSP February Newsletter.)*

## **INNOVATIONS IN BIOLOGICAL IMAGING AND VISUALIZATION**

The NSF IBIV activity supports the development of novel approaches to the analysis of biological research images through the innovative "Ideas Lab" project development and review process, which is an NSF solicitation. The analysis and visual representation of complex biological images present daunting challenges across all scales of investigation, from multispectral analysis of foliage or algal bloom patterns in satellite images, to automated specimen classification, and tomographic reconstructions in structural biology.

Analysis of biological image data is complicated by a host of factors, including complicated signal to noise profiles; variable feature size, density, scale, and perspective in images; experiment-specific metadata considerations; and reliance on subjective classification criteria. Advances in biological image analyses have the potential to facilitate the automation of analytic processes, improve synthetic approaches to the analysis of large or heterogeneous data collections, and permit higher-order dimensional analyses of complex research models. The goal of this activity is to identify opportunities for investment to advance the state-of-the-art in biological image analysis, data visualization, archiving, and dissemination. Participants selected through an open application process will engage in an intensive five-day residential workshop to generate project ideas through an innovative, real-time review process. Members of the biological research community, computational theorists and engineers, mathematicians, imaging specialists from other fields, educators involved in training the next generation of researchers, and a range of other specialists (artists, illustrators, etc.) are all strongly encouraged to participate.

[http://www.nsf.gov/pubs/2010/nsf10538/nsf10538.htm?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2010/nsf10538/nsf10538.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)

**Deadlines:** *April 12, 2010 (required Preliminary Proposal to submit applications to participate in the Ideas Lab, to be held May 24-28, 2010)*

*July 15, 2010 (Invited Full Proposals only)*

## 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.

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

**Deadline: March 29, 2010**

*(This program first appeared in the ORSP February Newsletter.)*

## 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>.  
[http://www.marchofdimes.com/professionals/691\\_14434.asp](http://www.marchofdimes.com/professionals/691_14434.asp)

**Deadline: April 30, 2010**

*(This program first appeared in the ORSP February Newsletter.)*

## CHEMISTRY AND MATERIALS RESEARCH AT THE INTERFACE BETWEEN SCIENCE AND ART

The National Science Foundation seeks to enhance opportunities for collaborative activities between conservation scientists and chemists and materials scientists to address grand challenges in the field of science of cultural heritage. A recent workshop, which was co-sponsored by NSF and the Andrew W. Mellon Foundation, concluded that the field of cultural heritage science could greatly benefit from collaboration between conservation scientists, primarily located in US museums, and chemists and materials scientists in academic institutions.

Largely in line with the workshop report, which can be found at <http://mac.mellon.org/NSF-MellonWorkshop> the program solicits collaborative proposals between researchers in US museums and academic institutions that aim to:

- a) develop new and improved analytical techniques and instruments with high sensitivity and spatial resolution (large and small scale) for restricted volume and/or standoff detection of component materials, degradation products and deterioration markers and which are suitable for non-destructive analysis of cultural heritage objects;
- b) study dynamic changes leading to degradation of cultural heritage objects;
- c) design new multi-functional treatment materials for cultural heritage objects;
- d) develop new theoretical models to predict dynamic processes in cultural heritage objects that lead to their degradation while taking into account their molecular and materials properties and their surface and bulk interactions with environmental parameters.

While the current solicitation is limited to chemistry and materials research topics, it is envisioned that the program will be expanded in future years to include additional areas of interest to the field of cultural heritage science. The program seeks highly innovative 3-year collaborative projects that break new ground and demonstrate a high level of synergy between the collaborating investigators. Formation of new collaborations is strongly encouraged. Investigators who have been collaborators must demonstrate that the proposed project represents a new research direction for the collaborative team.

The program will not accept proposals for projects that are currently funded by other funding sources. The program will also not accept proposals for projects that largely overlap or are closely related to research projects that are currently funded by other sources nor will it accept projects that only constitute an incremental extension of projects that are already carried out in the collaborators' laboratories.

PIs who seek support for postdoctoral research associate positions must provide a postdoctoral mentoring plan as a supplementary document. Proposals that seek support for a postdoctoral researcher but fail to provide a postdoctoral mentoring plan will be returned without review. The program also encourages the development and use of cyber infrastructure to increase the level of synergy of the proposed projects.

Since the solicitation calls for collaborative projects between cultural heritage scientists and chemistry and materials scientists in academic institutions, a principal investigator (PI) must demonstrate expertise in at least one of these areas and be a member of a multi-disciplinary collaborative team to be eligible to submit a proposal in response to this solicitation.

[http://www.nsf.gov/pubs/2010/nsf10534/nsf10534.htm?WT.mc\\_id=USNSF\\_179](http://www.nsf.gov/pubs/2010/nsf10534/nsf10534.htm?WT.mc_id=USNSF_179)

**Deadline:     *March 12, 2010 (required Letter of Intent)***  
***May 4, 2010 (full Proposal)***

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## POLITICAL SCIENCE

### US EMBASSY POLICY SPECIALIST PROGRAM

Launched in 2005, the US Embassy Policy Specialist program (EPS) gives US scholars the opportunity to serve as researchers-in-residence at US Embassies and Consulates in the countries of Eurasia. IREX works with US Government representatives in country to recruit scholars that meet the specific needs of the host Embassy, with the goal of improving government access to knowledge and expertise in the region.

Each EPS fellowship lasts one to two months and is determined in consultation with the host embassy or consulate. As part of the EPS fellowship, participants are provided with visa assistance, international roundtrip transportation, housing in the country of service, a monthly allowance for living expenses, and emergency evacuation insurance. EPS fellows work closely with embassy or consulate staff and receive support from field offices in the region.

For a list of recent research projects that have been funded by EPS program, please visit the [Program Results](#) page.

Applicants must have a graduate degree (PhD, MA, MD, MBA, MFA, MPA, MPH, MLIS, MS, JD) at the time of application and be US citizens or permanent residents. Eligible countries for EPS include Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, and Ukraine.

Specific information about available posts and topics of research for EPS varies year to year, and will be available in the most current EPS application.

[http://www.irex.org/programs/us\\_scholars/programs/uss\\_eps.asp](http://www.irex.org/programs/us_scholars/programs/uss_eps.asp)

**Deadline :** *March 15, 2010.*

Please visit the [Application Information](#) page for more information.

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## STEM

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

**Deadline(s):** *April 22, 2010*

*(This program first appeared in the ORSP February Newsletter.)*

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

**Deadline: April 21, 2010**

*(This program first appeared in the ORSP February Newsletter.)*

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

**DeadlineS:** *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](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](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.)*

## DEPARTMENT OF THE NAVY RESEARCH AND DEVELOPMENT WHITE PAPERS

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=19bed3b41180fea87997eb99fc8a1b3&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, but also in the development of quantitative, theory-driven approaches to cell biology that integrate experimental studies at the molecular genetic, biochemical,

biophysical, trans-criptomic 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](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12772)

**Deadline: July 12, 2010**

*(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.

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

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

*(This program first appeared in the ORSP February Newsletter.)*

## **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.

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](http://www.nsf.gov/pubs/2010/nsf10533/nsf10533.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)

**Deadline: April 27, 2010**

*(This program first appeared in the ORSP February Newsletter.)*

## **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/multi-department research opportunities. A proposal should reflect the unique combination of the proposer'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. 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](http://www.nsf.gov/pubs/2010/nsf10531/nsf10531.htm?WT.mc_id=USNSF_179#pgm_desc_txt)

**Deadline: April 26, 2010**

*(This program first appeared in the ORSP February Newsletter.)*

## NSF ADVANCED TECHNOLOGICAL EDUCATION

With an emphasis on two-year colleges, the Advanced Technological Education (ATE) program focuses on the education of technicians for the high-technology fields that drive our nation's economy. The program involves partnerships between academic institutions and employers to promote improvement in the education of science and engineering technicians at the undergraduate and secondary school levels. The ATE program supports curriculum development; professional development of college faculty and secondary school teachers; career pathways to two-year colleges from secondary schools and from two-year colleges to four-year institutions; and other activities. Another goal is articulation between two-year and four-year programs for K-12 prospective teachers that focus on technological education. The program also invites proposals focusing on research to advance the knowledge base related to technician education.

The ATE program focuses on two-year colleges and expects two-year colleges to have a leadership role in all projects. Effective technological education programs should involve partnerships in which two-year colleges work with four-year colleges and universities, secondary schools, business, industry, and government, and should respond to employers' needs for well-prepared technicians with the ability to learn and embrace change.

An important building block of the "Educate to Innovate" campaign is the education of students with 21<sup>st</sup> century knowledge and skills to create a world-class workforce. The ATE program is responsive to this goal as the program prepares well-qualified science and engineering technicians for existing and emerging advanced technological fields as well as preparing effective teachers for these fields. Many of these fields also play a vital role in national security and sustainable energy production and management. Fields of technology supported by the ATE program include, but are not limited to, agricultural technology, biotechnology, chemical technology, civil and construction technology, computer and information technology, cyber security and forensics, electronics, energy, environmental technology, geospatial technology,

manufacturing and engineering technology, marine technology, multimedia technology, nanotechnology, telecommunications, and transportation technology. The ATE program is particularly interested in projects addressing issues in rural technician education. The ATE program does not support projects that focus primarily on students who will become health, veterinary, or medical technicians.

Activities may have either a national or a regional focus, but not a purely local one. All projects must be guided by a coherent vision of technological education--a vision that recognizes students as life-long learners together with the needs of the modern workplace and the articulation of educational programs at different levels. The program encourages the following types of efforts (not in order of priority):

- provide professional development and externships for college faculty and secondary school teachers;
- link educators and educational programs in 2- and 4-year institutions and secondary schools, and connect them to business, industry, and government;
- develop programs with a focus on technological education for prospective K-12 teachers that link 2-year and 4-year college programs;
- develop programs that provide undergraduate research experiences for community college students;
- develop career pathways for technicians from secondary to 2-year college programs and from 2-year to 4-year institutions.
- provide internships and field experiences for students, and provide prospective technicians insight into real-world work environments including 21<sup>st</sup> century skills ([www.21stcenturyskills.org](http://www.21stcenturyskills.org));
- serve the needs of both first-time students and returning students and workers wishing to acquire new skills;
- adapt exemplary educational materials, courses, and curricula developed elsewhere including post-baccalaureate certificate programs;
- design and implement new educational materials, courses, laboratories, and curricula;
- implement national science, mathematics, technology, and industry standards;
- use educational technologies to improve teaching and learning;
- perform evaluation and broad dissemination of exemplary educational materials and pedagogical strategies;
- provide insight on why particular interventions or project strategies work, with whom, and under what circumstances; and
- undertake research on the effectiveness of various approaches or practices in technician education.

A center or project is expected to communicate a realistic vision for sustainability and a plan to achieve it. It is expected that at least some aspects of both centers and projects will be sustained or institutionalized past the period of award funding. Being sustainable means that a project or center has developed a product or service that the host institution, its partners, and its target audiences want continued. To be sustainable is to ensure a center's or project's products and services have a life beyond ATE funding. For example:

- The institution commits to maintaining some of the positions for faculty hired by the project.
- Partners pledge to supply external resources to fund parts of the project after the NSF award ends.

- The institution commits to continuing to use, improve and disseminate curricula and instructional materials developed in the project.

The almost 900 ATE projects supported to date provide a base upon which future ATE projects should build. Information about these projects can be found on the NSF web site (<http://www.nsf.gov/>). The ATE Centers website (<http://www.atecenters.org/>) provides information about resources that projects may wish to adapt. Additionally, ATE Central (<http://www.atecenters.org/>) directs users to a full range of high-impact ATE resources available online, including curricula, learning objects, and podcasts. A large-scale evaluation of the ATE program has been performed by the Evaluation Center at Western Michigan University and includes several research studies on best practices in technician education (<http://www.wmich.edu/evalctr/ate/>). The Evaluate Center at Western Michigan University partners with ATE projects and centers to expand their use of exemplary evaluation practices, strengthen the knowledge base of the ATE program about evaluation and support the continuous improvement of technician education throughout the nation (<http://www.evaluate-ate.org/>)

[http://www.nsf.gov/pubs/2010/nsf10539/nsf10539.htm?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2010/nsf10539/nsf10539.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)

***Deadline: April 22, 2010 (encouraged Preliminary Proposal)***  
***April 21, 2011; April 19, 2012***  
***October 21, 2010 (full proposal)***  
***October 20; 2011; October 18, 2012***