



Office of Research and Sponsored Programs

Newsletter, April 2010

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ANNOUNCEMENTS

RESEARCH DAY 2010

Friday, April 23, 2010 is the **BIG** day! Announcements have been distributed, registration is complete, and we're looking forward to see you at Alico Arena.

8:30 am – 10:30 am Poster Set-up
11:00 am – 3:00 pm Research Day Poster Viewing
3:30 pm Celebration of Excellence Award Ceremony

NSF Handbook on International REU Sites

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

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

Grantsmanship Training Program

The *Grantsmanship Training Program* is a comprehensive, hands-on workshop that covers the complete grant development process, from researching funding sources to writing and reviewing grant proposals. More than 115,000 nonprofit and government personnel have attended this fast-paced, five-day workshop, which is followed with a full year of membership support services. ORSP will assist with funding for faculty to attend this workshop, up to \$1,000. For more information and to sign up for the workshop follow this link:

http://www.tgci.com/gtptraining.shtml?utm_source=NA2W&utm_medium=email&utm_campaign=West%2BPalm%20Beach%20May%203-7%202010

West Palm Beach, Florida, May 3-7, 2010

Please contact JBogle@fgcu.edu for more information about ORSP Travel funds.

Haiti Earthquake Assistance

Millions of Haitians 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 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

[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

College of Arts & Sciences			
CEILLEY, David	Kitson Partners	Babcock Ranch Aquatic Faunal Sampling 2010	\$43,760.00
CEILLEY, David Everham, Edwin Thomas, Serge	SFWMD - Big Cypress Basin	Lake Trafford Monitoring 2010	\$25,000.00
FITCH, John	Environmental Protection Agency	Renewable and Native American Technologies in the Design of a Sustainable "Outdoor Classroom"	\$9,994.00
ISERN, Sharon Barreto, Jose Michael, Scott	Defense Threat Reduction Agency	Mechanistic Studies of Flavivirus Inhibition	\$1,200,000.00
WILSON, Jo Ann Dubetz, Terry	ZONTA	GEMS	\$4,650.00
Lutgert College of Business			
RODRIGUEZ, Walter	Career Learning Company	Military Spouse Career Advancement	\$6,000.00
ZALEWSKI, Janusz	University of Central Florida	FUNSAT VI Project	\$ 750.00
RODRIGUEZ, Walter	MedCerts LLC	Health Information Certification Program	\$30,000.00
College of Education			
GREENE, Marci	Florida Department of Education	Parents Educating Parents 2009-2010	\$90,000.00
GREENE, Marci Isaacs, Maddy	Florida Department of Education	Teacher Recruitment/Transition to Teaching 2010	\$80,000.00
WEINGARTT, Eleanor	Charter Schools USA, Inc.	Accelerated Induction Into Teaching	\$10,000.00
Student Affairs			
DOYLE, Cathy	School Board of Collier County	Collier County Scholar's Club 2007-2008	\$10,000.00
DOYLE, Cathy Yovanovich, Michele	United Way	United Way Scholars Program 2009	\$20,000.00

Submissions During the Last Month

College of Arts and Sciences			
CEILLEY, David	Johnson Engineering Inc.	Lee County Utilities Aquatic Fauna Id	\$ 1,500.00
COTICONE, Sulekha	National Institute of Justice	Utility of Prime Store TM in Forensic DNA Analysis	\$160,930.00
CROSS, Randall Ceilley, David Everham, Edwin Gunnels, Charles	Aquatic Habitat Restoration and Enhancement	An Assessment of coastal plain willow management	\$703,192.00
GRIFFIS, John	USDA	Organic Production Pitanga	\$813,056.00
WATANABE, Ken	NASA	Observations to Search for Unpredicted Gamma-Ray	\$40,000.00
College of Education			
SULLIVAN, Peg	Dr. Scholl Foundation	SERVS 2010	\$28,606.00
College of Health Professions			
GLACKEN, Joan	U.S. Department of Labor	Rebuilding the Clinical Laboratory Workforce	\$3,552,252.00

FUNDING OPPORTUNITIES\$

ACADEMIC ACHIEVEMENT

Ready-to-Learn Television Program

The US Department of Education's Ready-to-Learn Television Program is designed to: (1) Facilitate student academic achievement by supporting the development and distribution of educational video programming for preschool and elementary school children and their parents; and (2) develop and disseminate educational outreach materials and programs that are designed to promote school readiness, are interactive, and use multiple innovative technologies and digital media platforms.

Statutory Requirements: To be eligible to receive a cooperative agreement under the Ready-to-Learn Television Program, an applicant must:

- Develop, produce, and distribute educational and instructional video programming for preschool and elementary school children and their parents in order to facilitate student academic achievement;
- Facilitate the development, directly or through contracts with producers of children and family educational television programming, of educational programming for preschool and elementary school children, and the accompanying support materials and services that promote the effective use of such programming;
- Facilitate the development of programming and digital content containing Ready-to-Learn-based children's programming and resources for parents and caregivers that is specially designed for nationwide distribution over public television stations' digital broadcasting channels and the Internet;

- Contract with entities (such as public telecommunications entities) so that programs developed under this section are disseminated and distributed to the widest possible audience appropriate to be served by the programming, and through the use of the most appropriate distribution technologies; and
- Develop and disseminate education and training materials, including interactive programs and programs adaptable to distance learning technologies, that are designed—
 - To promote school readiness; and
 - To promote the effective use of materials developed under paragraphs among parents, teachers, Head Start providers, Even Start providers, providers of family literacy services, child care providers, early childhood development personnel, elementary school teachers, public libraries, and after-school program
- Personnel caring for preschool and elementary school children.

<http://edocket.access.gpo.gov/2010/pdf/2010-6289.pdf>

Deadlines: *April 21, 2010; Notice of Intent to Apply*
April 8, 2010; Meeting for Prospective Applicants
May 21, 2010; application submission

ENVIRONMENTAL

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

Deadline: *April 27, 2010*

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

Water Sustainability and Climate

One of the most urgent challenges facing the world today is ensuring an adequate supply and quality of water in light of both burgeoning human needs and climate variability and change. The goal of the Water Sustainability and Climate (WSC) 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.

Proposals may establish new observational sites or utilize existing sites and facilities already supported by NSF or other federal and state agencies (e.g. USEPA, USGS). Proposals that do not broadly integrate across the biological sciences, engineering, geosciences, and social sciences may be returned without review. Successful proposals are expected to study water systems in their entirety and to enable a new interdisciplinary paradigm in water research.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503452&org=GEO&from=home

Deadline: April 15, 2010

Small Business Innovation Research Phase I Program Solicitation

The Environmental Protection Agency (EPA) invites small business firms to submit research proposals under this Small Business Innovation Research (SBIR) Solicitation.

The following topics are included in this solicitation: Green Building, Innovation in Manufacturing, Nanotechnology, Greenhouse Gases, Drinking Water Monitoring and Treatment, Wastewater and Sustainable Infrastructure, Air Pollution Monitoring and Control, Biofuels, Waste Management and Monitoring, and Homeland Security. The proposed research must directly pertain to EPA's environmental mission and must be responsive to EPA program interests included in the topic descriptions in this solicitation.

In order to facilitate proposal reviews by external peer reviewers with specialized expertise and by EPA technical personnel with focused program needs and priorities, offerors must designate a research topic for their proposal. The same proposal may not be submitted under more than one topic. An organization may, however, submit separate proposals on different topics, or different proposals on the same topic, as long as the proposals are not duplicates of the same research principle modified to fit the topic. If such duplicates are submitted, only one will be reviewed. Refer to Sections IV, V, and VI for additional requirements. Where similar research is discussed under more than one topic, the offeror shall choose the topic most relevant to the proposed research. It is the complete responsibility of offerors to select and identify the best topic for their proposals.

http://www.epa.gov/ncer/rfa/2011/2011_sbir_phase1.html

Deadline: May 11, 2010

FORENSICS

Improvements to Biological Research Collections

The Improvements to Biological Research Collections Program provides funds for improvements to network, secure, and organize established natural history collections for sustained, accurate, and efficient accessibility of the collection to the biological research community.

The BRC program is encouraging collaborative proposals to network collections on regional and continental scales, especially collaborations that bring large and small collections together into

networks. The BRC program also provides for enhancements to existing collections to improve collections, computerize specimen-related data, develop better methods of specimen curation and collection management through activities such as symposia and workshops. Biological collections supported include those housing natural history specimens and jointly curated collections such as preserved tissues and other physical samples, e.g. DNA libraries and digital images. Such collections provide the materials necessary for research across broad areas of biological sciences.

FGCU is allowed to submit only one application. If you are interested in submitting an application to this program, please send an abstract to Donna Stremke (x7029 or dstremke@fgcu.edu) by **June 30, 2010**. If more than one abstracts are received, you will be invited to present a synopsis of your project to the G&R Team during the second week of July.

<http://apps.research.ufl.edu/research/fyi/article.cfm?id=21116>

Deadline: July 23, 2010 due to the NSF

HEALTH

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. All grant applications will be reviewed by the [Medical Advisory Board](#).

Deadline: June 4, 2010

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

Healthy Eating Research: Building Evidence to Prevent Childhood Obesity

Healthy Eating Research, a national program of the Robert Wood Johnson Foundation (RWJF), supports studies to identify and evaluate policies and environmental approaches that have the greatest potential to improve children's diets and energy balance to reverse the nation's levels of childhood obesity.

Healthy Eating Research issues CFPs to solicit scientifically rigorous, solution-oriented proposals from investigators representing diverse disciplines and backgrounds. The program's overall aims are to identify strategies likely to have important population-level impacts and to provide decision- and policy-makers with evidence to guide and accelerate effective action to reverse the childhood obesity epidemic.

The three types of funding opportunities included in this CFP are Round 5 grants, rapid-response grants and *New Connections* grants through *Healthy Eating Research*. The broad topics and types of studies described below apply to all three types of grants.

We rely on researchers' creativity to generate innovative, solution-oriented environmental and policy studies. Each of the three types of grants described in this CFP supports strategic, policy-relevant research on a wide range of policy and environmental changes. Examples of study topics that could be funded under this CFP include:

- innovative food pricing and economic incentives to encourage healthy food choices;
- varied forms of food and beverage advertising and marketing targeting youth, including youth in high-risk, lower-income and racial and ethnic populations;
- impact of changes in access and proximity to full-service grocery stores and fast-food outlets on youth diets;
- strategies for improving healthy food choices within varied retail settings (e.g., grocery stores, corner stores, mobile vending);
- changes in front-of-package labeling and point-of-purchase prompts within varied food outlets;
- changes in food and beverage formulation to reduce excess (non-nutritive) calories;
- effects of national, state and local school and child-care food policies;
- promising food-related policy and environmental changes in settings where children and their families make food choices, including community, school, after-school and child-care settings;
- agricultural policies, including those related to commodity foods, agricultural subsidies and food assistance programs.

Round 5 Awards: Approximately \$1.35 million will be awarded, up to \$170,000 each for a 12- to 24-month funding period. There is a six-month period between submission of full proposals and the start of funding for approved Round 5 grants.

Rapid Response Awards: Approximately \$900,000 will be awarded, up to \$150,000 each, for a maximum funding period of 18 months. Funding for approved studies may be initiated as early as four months after invited full proposals are submitted. Grants will be awarded on a rolling basis; a one-page concept paper may be submitted at any time until September 1, 2010 (3 p.m. ET).

New Connections Awards: These grants are for new investigators who have been historically disadvantaged or underrepresented in research disciplines supported by RWJF. This includes researchers who are ethnic or racial minorities, first-generation college graduates and individuals from lower-income communities. Individuals who are eligible for New Connections grants through Healthy Eating Research also are eligible for Round 5 and rapid-response grants. For the purpose of this CFP, only new investigators, defined as individuals who received their doctorate or terminal degree within seven years prior to the award date for the grant (after November 15, 2003), are eligible for funding.

Applicants for New Connections grants through Healthy Eating Research are required to identify a mentor in their proposals. Mentors should submit a letter of support with the applicant's proposal. Mentors will participate with the grantees in an initial orientation conference call led by Healthy Eating Research to review mentoring roles and responsibilities.

Up to two New Connections grants will be awarded for 12- to 24-month grants of up to \$75,000 each. Funding may not exceed \$50,000 in a 12-month period. The funding cycle involves a six-month period between submission of full proposals and the start of funding.

All applicants are encouraged to visit the web site at www.healthyeatingresearch.org and view the abstracts for studies previously funded through the program. The Web site also has other

pertinent applicant resources, such as examples of studies, a bibliography related to the research topics, syntheses of research recommendations from the Institute of Medicine and other authoritative groups, examples of nationally representative data sources, key reports, and research briefs and syntheses.

http://www.rwjf.org/files/applications/cfp/cfp_HER2010.pdf

Deadlines: March 15–September 1, 2010 (3 p.m. ET)—Concept papers may be submitted

HUMANITIES

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>

Deadline: 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; research seminars; surveys; focus groups; and other activities to understand these professions and their educational and training needs. 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 1-3 years and up to \$150,000. Cost sharing is required.

<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.

<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>

Deadlines: 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.)

Screenwriting Fellowships

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.

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, 2010

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

INTERDISCIPLINARY

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

Deadlines: 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.)

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.

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

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)

(This program first appeared in the ORSP March 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

Deadline: **April 30, 2010**

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

Research Experiences for Undergraduates

The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. This solicitation features two mechanisms for support of student research: (1) *REU Sites* are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department, or on interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. A partnership with the Department of Defense supports REU Sites in DoD-relevant research areas. (2) *REU Supplements* may be requested for ongoing NSF-funded research projects or may be included as a component of proposals for new or renewal NSF grants or cooperative agreements.

Undergraduate student participants in either Sites or Supplements must be citizens or permanent residents of the United States or its possessions.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&from=fund

Deadline: **August 25, 2010**

LITERACY

Migrant Education Even Start Literacy Program

The Migrant Education Even Start Family Literacy program intends to help break the cycle of poverty and illiteracy of migratory agricultural or fishing families by improving the educational opportunities of these families through the integration of early childhood education, adult literacy or adult basic education, and parenting education into a unified family literacy program. This program is implemented through cooperative activities that build on high quality existing community resources to create a new range of educational services for the most-in-need migratory agricultural or fishing families, promote the academic achievement of migratory children and adults, assist migratory children in meeting challenging State content standards and challenging State achievement standards, and use instructional programs based on scientifically based reading research on preventing and overcoming reading difficulties for children and adults. The application package contains a description of the 15 program elements that MEES projects must implement.

<http://edocket.access.gpo.gov/2010/pdf/2010-7112.pdf>

Deadline: *May 14, 2010*

JUSTICE PROGRAMS

Encouraging Innovation: Field-Initiated Programs

The US Department of Justice Bureau of Justice Assistance (BJA) seeks proposals that demonstrate innovation in justice; address a demonstrated gap in areas within the justice system or in the knowledge base of justice system practitioners and/or state and local policymakers; and allow for replication nationwide. The purpose of this solicitation is to identify those field-generated innovative strategies that may ultimately be added to the pool of criminal justice evidence-based strategies and promising practices. Applications may be submitted under one of three categories:

- (1) state or local programs that strategically address emerging or chronic criminal justice issues;
- (2) innovative strategies for addressing these issues; or
- (3) strategies to sustain innovative or evidence-based programs.

BJA is looking for the best innovative, field-generated concepts for advancing the capabilities and performance of the criminal justice system, including sustainability planning and the implementation of an evidence-based practice in a novel way or to address a new issue. Projects will be expected to establish performance measures for success, assess projects based on agreed upon performance measures, and document results that may be reported and replicated elsewhere.

<http://www.ojp.usdoj.gov/BJA/grant/10FieldInitiatedSol.pdf>

Deadlines: *May 18, 2010*

Engaging Law Enforcement through Training and Technical Assistance to Reduce Juvenile Crime, Victimization, and Delinquency

This solicitation invites eligible applicants to propose the enhancement or expansion of approaches that engage law enforcement in reducing juvenile crime, victimization, and

delinquency by providing federal, state, local, and tribal law enforcement with comprehensive training, technical assistance, and research. The initiative will examine how police can address priority issues more effectively using evidence-based strategies that enhance their effectiveness in policing situations involving youth. This initiative will engage law enforcement leaders and front-line officers through classroom and Web-based instruction, online resources, peer-to-peer networking and interaction, and geospatial information system technology.

The OJJDP applications will use a four-tiered training and technical assistance strategy:

- (1) a job performance needs and gap analysis to set priorities for the design, development, and/or modification and delivery of youth-focused training topics and to fulfill other related professional development needs to better equip police officers to improve their interactions with juveniles;
- (2) training and technical assistance support with emphasis on under-served small to mid-sized law enforcement agencies. Nearly 85% of police agencies in the United States are composed of 50 sworn officers or fewer, but vary in organizational structure, geographical location, and capacity;
- (3) implement and monitor the Juvenile Justice Program and Services Directory website for law enforcement agencies to list, query, and search juvenile justice programs and services submitted by law enforcement agencies via the site's URL at www.leayouthservices.org. Access to the query function will be open to members of the general public, however the query functionality has been designed specifically for law enforcement professionals to encourage peer-to-peer exchange of information related to the profession's youth services and juvenile justice missions; and
- (4) a strategic plan and pilot test in 1–2 police agency(s) to establish youth crime and delinquency prevention as an agency operational standard and to engage law enforcement more intensely on youth issues and effective strategies and outcomes.

The program's goal is to provide expert assistance in methods to improve law enforcement's ability to minimize juvenile delinquency and victimization by providing police officers with instructional courses and Web-based tools to better understand the importance of their role and impact on juveniles during or in response to policing situations and their ability to positively influence youth. This expert assistance should enable law enforcement to understand important trends and emerging methods in policing youth.

The successful applicant will consult with the OJJDP program manager, who will provide input on training topics, publications, manuals, training conferences, GIS, performance measure/evaluation methods, and other substantive issues and deliverables.

Where appropriate, the recipient will act jointly with OJJDP to determine modifications to the program plan or budget and to design data collection instruments. The OJJDP program manager will meet periodically with the recipient, at OJJDP's determination, throughout the duration of the initiative to discuss activities, plans, problems, and solutions.

<http://ojjdp.ncjrs.gov/grants/solicitations/FY2010/EngagingLawEnforcement.pdf>

Deadline: May 19, 2010

Evaluation of Second Chance Act Adult Demonstration Projects

NIJ seeks applications for a comprehensive outcome and impact evaluation of the selected adult demonstration projects funded by the Bureau of Justice Assistance under the Second Chance Act of 2007. This solicitation seeks to fund an award in order to measure the processes, outcomes, costs, and impacts of the programs that received funding under the Second Chance Act and to assess the effectiveness of the Second Chance Act in reducing recidivism among released prisoners.

NIJ is soliciting proposals to conduct a systematic and comprehensive evaluation of these adult demonstration projects. The evaluation will focus on those sites that have demonstrated adequate progress toward meeting established goals of the program and that have been awarded continued funding by BJA in FY 2010. The evaluation to be funded by this solicitation will study up to six sites. The sites to be included in this evaluation will be selected by NIJ and the evaluation grantee, in collaboration with BJA, after this evaluation award is made. Applicants are encouraged to review BJA Demonstration Project descriptions to aid them in developing an evaluation plan (see http://www.ojp.usdoj.gov/nij/funding/NIJFY10SCAEvalEligible_BJADemo.doc). <http://www.ncjrs.gov/pdffiles1/nij/sl000937.pdf>

Deadline: June 1, 2010

SOCIAL SCIENCE

Creating Family-Centered Approaches to Improve Child Support Enforcement Outcomes

The Administration for Children and Families, Office of Child Support Enforcement, invites eligible applicants to submit competitive grant applications for Special Improvement Projects to demonstrate strategies which 1) educate and involve both parents in child support enforcement (CSE) processes and 2) coordinate referral of both parents to needed non-CSE services (such as workforce development and employment).

Project strategies must target unwed, low-income parents who are in need of child support assistance. Parents would be referred to a combination of services such as mediation, healthy relationship education, access and visitation, as well as other services that address the financial barriers facing both noncustodial and custodial parents. Only costs eligible for funding under Title IV-D of the Social Security Act program are allow-able under this grant.

Given that the purpose of these projects is to improve child support enforcement outcomes for families, it is required that applicants who are not Title IV-D of the Social Security Act agencies have the cooperation of IV-D agencies to operate these projects. All applications developed jointly by more than one agency/organization must identify a single lead organization as the official applicant. The lead organization will be the recipient of the grant award. Participating agencies and organizations can be included as co-participants or subcontractors with their written authorization.

<http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=52745>

Deadline: May 17, 2010

Social Network Analysis and Health

Social networks are social structures comprised of nodes, which can be individuals, organizations, or even societies. In a social network, nodes are tied to each other based on a type of social relationship, such as friendship, kinship, sexual contact, or economic exchange. Social network analysis (SNA) is the measuring, mapping, analyzing, and interpretation of social network structures, the ties between nodes, and the flows that occur within and across networks. Information, disease pathogens, ideas, money, and many other things can flow across networks. The goal of this funding announcement is to advance the science of SNA in ways that will enhance its utility for understanding and addressing public health issues. This funding opportunity announcement calls for research with the potential to advance and expand the utility of SNA and methods in studies of health and disease. This FOA is not intended to encourage proposals on the development of intervention strategies that operate on social networks, but rather to strengthen basic science knowledge on which intervention strategies may later be based.

Although SNA is not a new science, in recent years it has been adopted across a broad spectrum of disciplines. Among the fields currently producing work on social networks are anthropology, communications, computer science, economics, physics, public health, demography, and sociology. This FOA encourages the cooperation of multidisciplinary teams with expertise in various aspects of network analysis and in the social and behavioral sciences. This FOA encourages basic research that can lead to new applications of social network methods and theory to improving human health. In particular, this FOA encourages research projects that propose to:

- generate new theories that would enhance the capabilities and value of SNA;
- address fundamental questions about social interactions and processes in social networks
- address fundamental questions about social networks in relation to health and health-
- develop innovative methodologies and technologies to facilitate, improve, and expand the
- related behaviors;
- capabilities of SNA.

<http://grants.nih.gov/grants/guide/pa-files/PAR-10-145.html#PartI>

Deadline: June 3, 2010

Emergency Management for Higher Education

Support efforts by institutions of higher education (IHEs) to develop, or review and improve, and fully integrate, campus-based all-hazards emergency management planning efforts within the framework of the four phases of emergency management (Prevention-Mitigation, Preparedness, Response, and Recovery).

Priority 1—Institutions of Higher Education (IHE) Projects Designed To Develop, or Review and Improve, and Fully Integrate Campus-Based All-Hazards Emergency Management Planning Efforts. Under this priority, we support IHE projects designed to develop, or review and improve, and fully integrate campus-based all-hazards emergency management planning efforts. A program funded under this priority must use the framework of the four phases of emergency management (Prevention-Mitigation, Preparedness, Response, and Recovery) to:

- Develop, or review and improve, and fully integrate a campus-wide all hazards emergency management plan that takes into account threats that may be unique to the campus;
- Train campus staff, faculty, and students in emergency management procedures;
- Coordinate with local and State government emergency management efforts;
- Ensure coordination of planning and communication across all relevant components, offices, and departments of the campus;
- Develop a written plan with emergency protocols that include the medical, mental health, communication, mobility, and emergency needs of persons with disabilities, as well as for those individuals with temporary special needs or other unique needs (including those arising from language barriers or cultural differences);
- Develop or update a written plan that prepares the campus for infectious disease
- Develop or enhance a written plan for preventing violence on campus by assessing and addressing the mental health needs of students, staff, and faculty who may be at risk of causing outbreaks with both short-term implications for planning and long-term implications for planning;
- Develop or update a written campus-wide continuity of operations plan that would enable the campus to maintain and/or restore key educational, business, and other essential functions following an emergency.

Priority 2—Priority for Applicants That Have Not Previously Received a Grant Under The EMHE Program

Under this priority we give priority to applications from IHEs that have not previously received a grant under this program. An applicant that has received services under this program directly, or as a partner in a consortium application under this program, would not meet this priority. Under a consortium application, all members of the IHE consortium must meet this criterion in order for the applicant to meet this priority.

The following requirements apply to all applications submitted under this competition:

1. Partner Agreements: An applicant must include in its application two partner agreements. One partner agreement must detail coordination with, and participation of, a representative of the appropriate level of local or State government for the locality in which the IHE to be served by the project is located. The second partner agreement must detail coordination with, and participation of, a representative from a local or State emergency management coordinating body.
2. Completed Memoranda of Agreements: All IHEs supported by the EMHE program must use the grant period to create, or review and update, and sign, a memorandum of agreement (MOA) with each of the following four partners: local or State emergency management coordinating body, local government, primary off-campus public health provider, and primary off campus mental health services provider.
3. Coordination with State or Local Homeland Security Plan: All emergency management plans created or enhanced using funding under this program must be coordinated with the Homeland Security Plan of the State or locality in which the IHE is located.

4. Implementation of the National Incident Management System (NIMS): Each applicant must agree to implement its grant in a manner consistent with the implementation of the NIMS in its community.

<http://edocket.access.gpo.gov/2010/pdf/2010-7417.pdf>

Deadline: *May 12, 2010*

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

Deadline: *April 22, 2010*

(This program first appeared in the ORSP February 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 *October 6, 2010 (for 2011 nominations);*

First Wednesday in October ;annually thereafter

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

Department of the Navy R&D 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=19bed3b41180fea87997eb9fcfc8a1b3&tab=core&cvview=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 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, 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.)

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

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

Deadline: April 27, 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 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.

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.

http://www.nsf.gov/pubs/2010/nsf10539/nsf10539.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Deadlines: April 22, 2010 (encouraged Preliminary Proposal)

October 21, 2010 (full proposal)

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

Thermoelectric Devices for Vehicle Applications

The Directorate for Engineering at the National Science Foundation has established a partnership with the U.S. Department of Energy Vehicle Technologies Program in order to address critical fundamental and applied research challenges associated with harvesting waste heat in vehicle applications. The goal of the partnership is to leverage the complementary missions of deployment and commercialization (DOE) and fundamental research and education (NSF) to address issues of national importance that impact our reliance on foreign sources of oil. The Directorate

for Engineering seeks proposals with transformative ideas that will impact national needs and priorities in energy conservation and climate change, specifically as pertains to novel thermo-electric devices and systems for harvesting waste heat in vehicle applications. Proposals must meet the detailed requirements delineated in this solicitation.

While participation from non-engineering disciplines is encouraged and may be essential for some proposals, projects should primarily contribute to engineering research. The principal investigator and co-principal investigators may participate in only one proposal submitted to this solicitation.

http://www.nsf.gov/pubs/2010/nsf10549/nsf10549.htm?WT.mc_id=USNSF_179

Deadlines: *May 21, 2010; Letter of Intent*
June 22, 2010; Full Proposal

Software Infrastructure for Sustained Innovation

Computation is accepted as the third pillar supporting innovation and discovery in science and engineering and is central to NSF's future vision of *Cyberinfrastructure Framework for 21st Century Science and Engineering (CF21)*¹. Software is an integral part of the computation paradigm and a primary modality for realizing the CF21 vision. Scientific discovery and innovation are advancing fundamentally new pathways opened by development of increasingly sophisticated software. Software is also directly responsible for increased scientific productivity and significant enhancement of researchers' capabilities. In order to nurture, accelerate and sustain this critical mode of scientific progress, NSF is establishing a new program, *Software Infrastructure for Sustained Innovation (SI²)*, with the overarching goal of transforming innovations in research and education into sustained software resources that are an integral part of the cyberinfrastructure.

SI² is a long-term investment focused on catalyzing new thinking, paradigms, and practices in using software to understand natural, human, and engineered systems. SI²'s intent is to foster a pervasive cyberinfrastructure to help researchers address problems of unprecedented scale, complexity, resolution, and accuracy by integrating computation, data, networking and experiments in novel ways.

SI² envisions vibrant partnerships among academia, government laboratories and industry for the development and stewardship of a sustainable software infrastructure that can enhance productivity and accelerate innovation in science and engineering. The goal of the SI² program is to create a software ecosystem that includes all levels of the software stack and scales from individual or small groups of software innovators to large hubs of software excellence. The program addresses all aspects of CI, from embedded sensor systems and instruments, to desktops and high-end data and computing systems, to major instruments and facilities.

The SI² program envisions three classes of awards:

1. Scientific Software Elements (SSE): SSE awards target small groups that will create and deploy robust software elements for which there is a demonstrated need, encapsulating innovation in science and engineering. The effort targeted by a SSE award is up to a level roughly comparable to: summer support for two investigators with complementary expertise; two

graduate students; and their collective research needs (e.g. materials, supplies, travel) for three years.

2. **Scientific Software Integration (SSI)**: SSI awards target larger groups of PIs organized around common research problems as well as common software infrastructure, and will result in a sustainable community software framework. The effort targeted by a SSI award is up to a level roughly comparable to: summer support for three to four investigators with complementary expertise; three to four graduate students; one or two senior personnel (including post-doctoral researchers, software developers, and staff); and their collective research needs (e.g., materials, supplies, travel) for three to five years. The integrative contributions of the SSI team should clearly be greater than the sum of the contributions of each individual member of the team.

3. **Scientific Software Innovation Institutes (S2I2)**: S2I2 awards will focus on the establishment of long-term community-wide hubs of software excellence. These hubs will provide expertise, processes, resources and implementation mechanism to transform computational science and engineering innovations and community software into robust and sustained tools for enabling science and engineering. S2I2 proposals will bring together multidisciplinary teams of domains scientists and engineers, computer scientists and software engineers, technologists and educators.

An individual may participate as Principal Investigator, co-Principal Investigator or other Senior Personnel in at most two full proposals in each annual competition.

http://www.nsf.gov/pubs/2010/nsf10551/nsf10551.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Deadline: *May 10, 2010; Required Letter of Intent
June 14, 2010; Full Proposal Deadline*

Ethics in Science, Mathematics, and Engineering Online Resource Center

NSF expects to support the development of an online RCR resource center containing research findings, pedagogical materials, and promising practices regarding ethics in science, mathematics, and engineering training. The development and evolution of the ongoing ethics online center will be informed by the research communities that NSF supports (e.g. engineering, social sciences, natural sciences, mathematics, computer sciences), and it will serve as a living resource of multimedia materials that may be used to train current and future generations of scientists, mathematicians, and engineers in RCR. The proposed online resource center will also assist practicing scientists, mathematicians, and engineers to identify and explore ethical issues as they arise in research. Science, mathematics, and engineering refer to all of the fields that NSF supports; this includes the social sciences.

Audiences for the proposed ethics resource center may include but are not limited to:

- instructors who want to incorporate an ethics module into classes;
- administrators and/or instructors who seek to access scholarly evaluation of ethics curricula;
- undergraduate and graduate students who seek to understand ethical issues in science, mathematics, and engineering;

- practicing scientists and engineers who seek to explore ethical reasoning and issues as they arise in research;
- researchers who create original scholarship on ethics in science, mathematics, and/or engineering.

The goals for the proposed online resource center include helping researchers and administrators understand the various strategies (as well as the efficacy and impacts of such strategies) used to train science, mathematics, and engineering students in ethical reasoning. The proposed online ethics center should also incorporate interactive tools that help practicing scientists, mathematicians, and engineers delve into ethical situations as they develop in the laboratory and the field. The proposed RCR center should feature innovative content, design, and tools though it should be careful to assure clients that its contents should not be construed as constituting legal advice.

To accomplish these goals, NSF seeks proposals to create and maintain an online RCR resource center. The center will serve a stewardship role for the educational content and/or the services needed by a broad community of scholars, including instructors who want to incorporate ethics in science, mathematics, and engineering modules into their courses; scholars who research ethics in science, mathematics, and engineering; or scientists and engineers as they negotiate active research agendas and encounter ethical dilemmas. To be competitive, proposals should include multi-disciplinary teams that include expertise in relevant areas (for example, expertise in ethics in science, mathematics, and engineering; expertise in project design; and/or expertise in online pedagogy or library science). Prior research and educational activities provide a background on which to build an Ethics in Science, Mathematics, and Engineering online resource center. The designers of the online resource, however, will also have to gather materials and data due to the infancy of the field.

Proposals for the online RCR resource center must describe prospects for continuing to make project capabilities available beyond the period of NSF funding. This description should include a long-term management plan, and proposed projects should have a tangible, long-term commitment from a stable organization. For more detailed information on the project description and management plan, see the proposal preparation additional guidelines outlined below.

A successful proposal will show awareness of previous NSF online resource awards and will address how the proposed resource will go beyond these sites. A successful proposal will also demonstrate awareness of and ability to integrate and leverage relevant international resources on ethics in science, mathematics, and engineering.

In the third year of the award, all central members of the PI team are expected to come to the NSF to present a detailed progress report of the project and a live demonstration of the online resource.

http://www.nsf.gov/pubs/2010/nsf10547/nsf10547.htm?WT.mc_id=USNSF_179

Deadlines: **April 30, 2010, Letter of Intent**
 June 03, 2010 Full Proposal:

STEM Talent Expansion Program

The Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP) seeks to increase the number of students receiving associate or baccalaureate degrees in established or emerging fields within science, technology, engineering, and mathematics. Type 1 proposals provide for full implementation efforts at academic institutions. Type 2 proposals support educational research projects on associate or baccalaureate degree attainment in STEM.

Program activities under the STEP Type 1 competition should be efforts aimed at adapting and implementing best practices that will lead to an increase in the number of students (United States citizens or permanent residents) obtaining STEM degrees at institutions with baccalaureate degree programs; or completing associate degrees in STEM fields or completing credits toward transfer to a baccalaureate degree program in STEM fields at community colleges. The goal of the project must be to increase the total graduation numbers of such students at the institution(s), and all STEP proposals must include specific numerical targets for these increases. If a project focuses efforts on only a subset of STEM fields, increases in those fields must not be at the expense of degrees in other STEM fields. Projects may focus on the retention and/or recruitment of undergraduate students into STEM fields. Outreach efforts are appropriate only if the efforts can be expected to result in additional STEM majors and graduates at the submitting institution(s) within the grant period.

A Type 1 proposal should be identified as falling into one of three categories: 1A, 1B, or 1C.

Type 1A is submitted by an institution that has not previously been the lead institution on a STEP Type 1 award.

Type 1B and 1C proposals are submitted by institutions that have previously been the lead institution on a STEP Type 1 award.

The intent of a STEP project should be to make a significant impact on the culture at an institution(s) with the expectation that major portions of the impact will be sustained after the completion of the project. Although the use of scholarships is allowed as one part of a larger strategic effort to retain students, if the project is intended to rely largely on scholarships, it should be submitted to the [NSF Scholarships in Science, Technology, Engineering, and Mathematics \(S-STEM\) Program](#).

For projects that are considering outreach to high school students, such activities are only appropriate if they will recruit students to the proposing institution(s) and if the high school students will be entering and progressing through undergraduate STEM majors within the five-year period of the proposed project. In most cases, this requires that outreach and recruitment efforts be limited to juniors and seniors in high schools that have a history of sending their graduates to the proposing institution(s).

<http://www.nsf.gov/pubs/2008/nsf08569/nsf08569.htm>

Deadline: September 28, 2010