



Office of Research and Sponsored Programs

Newsletter, January 2010

ANNOUNCEMENTS.....	3
NSF'S NEW GRANT GUIDELINES FOR 2010.....	3
GRANTS.GOV SUBMISSION GUIDELINES	3
ORSP WEBSITE.....	3
HAVE YOU COMPLETED YOUR GENIUS/SMARTS PROFILE IN INFO ED?	3
ORSP PROGRAM: STUDENT TRAVEL AWARDS	3
ORSP PROGRAM: FACULTY TRAVEL AWARDS	3
DO YOU NEED HELP WITH PROPOSAL PREPARATION?	4
CONGRATULATION\$.....	4
AWARDS DURING THE LAST MONTH.....	4
SUBMISSIONS DURING THE LAST MONTH.....	4
FUNDING OPPORTUNITIE\$.....	5
BUSINESS.....	5
FINRA INVESTOR EDUCATION FOUNDATION.....	5
CRIMINAL JUSTICE	6
R&D ON FORENSIC CRIME SCENE AND MEDICOLEGAL DEATH INVESTIGATIONS	6
R&D ON INSTRUMENTAL ANALYSIS FOR FORENSIC SCIENCE APPLICATIONS	6
WORKING WITH MENTAL ILLNESS IN CORRECTIONS	16
EDUCATION.....	7
COLLEGE ASSISTANCE MIGRANT PROGRAM (CAMP).....	7
HIGH SCHOOL EQUIVALENCY PROGRAM (HEP).....	7
HEALTH	7
NCMHD HEALTH DISPARITIES RESEARCH ON MINORITY AND UNDERSERVED POPULATIONS.....	8
THE MESSAGE THERAPY FOUNDATION RESEARCH GRANTS PROGRAM	8
HUMANITIES.....	9
AMERICAN HISTORY AND CULTURE: WORKSHOPS FOR SCHOOL TEACHERS	9
AMERICAN HISTORY AND CULTURE: WORKSHOPS FOR COMMUNITY COLLEGE FACULTY	10
NEH SUMMER SEMINARS AND INSTITUTES	12
ELECTRONIC RECORDS PROJECTS	12
ARCHIVES AND HISTORICAL PUBLISHING.....	13
PUBLISHING HISTORICAL RECORDS.....	13
STRATEGIES AND TOOLS FOR ARCHIVES AND HISTORICAL PUBLISHING PROJECTS.....	14
DIGITIZING HISTORICAL RECORDS	14
INTERDISCIPLINARY	15
NSF ENVIRONMENTAL SYNTHESIS CENTER	15
HUMAN FRONTIER SCIENCE PROGRAM (HFSP)	17
JOURNALISM	18
NEW VOICES REQUEST FOR PROPOSALS - 2010.....	18
SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS.....	18

PAN-AMERICAN ADVANCED STUDIES INSTITUTES PROGRAM	18
PRESIDENTIAL AWARDS FOR EXCELLENCE IN SCIENCE, MATHEMATICS AND ENGINEERING	
MENTORING	19
ALLIANCES FOR BROADENING PARTICIPATION IN STEM	19
CYBERINFRASTRUCTURE FRAMEWORK FOR 21ST CENTURY SCIENCE AND ENGINEERING	21
NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM	23
DEPARTMENT OF THE NAVY RESEARCH AND DEVELOPMENT	23
MEASUREMENT, SCIENCE AND ENGINEERING RESEARCH GRANTS	24
NSF CELLULAR SYSTEMS CLUSTER	24
CYBER-PHYSICAL SYSTEMS (CPS).....	25
NSF PROACTIVE RECRUITMENT IN INTRODUCTORY SCIENCE AND MATHEMATICS.....	26
RESEARCH ON GENDER IN SCIENCE AND ENGINEERING	26
WOMEN AND MATHEMATICS GRANTS	26

ANNOUNCEMENTS

NSF'S NEW GRANT GUIDELINES FOR 2010

Follow the link below to download the PDF of the new grant guidelines. A summary of significant changes is also posted at this site. http://www.nsf.gov/pubs/policydocs/pappguide/nsf10_1/index.jsp

GRANTS.GOV SUBMISSION GUIDELINES

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

ORSP WEBSITE

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

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

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

ORSP PROGRAM: STUDENT TRAVEL AWARDS

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

ORSP PROGRAM: FACULTY TRAVEL AWARDS

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

DO YOU NEED HELP WITH PROPOSAL PREPARATION?

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

CONGRATULATIONS

AWARDS DURING THE LAST MONTH

College of Education

Sullivan, Peg	University of South Florida / US Department of Education	PIRC Evaluation 2008-2011	\$45,426
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Academic Affairs

Roberts, Thomas	FGCU-ORSP	Confocal Microscope Maintenance	\$34,000
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SUBMISSIONS DURING THE LAST MONTH

College of Arts & Sciences

Pires, Ricky	South Florida Water Management District	Wings of Hope 2010 Big Cypress Basin	\$20,000
Pires, Ricky	South Florida Water Management District	Wings of Hope 2010 Lower West Coast	\$20,000

College of Professional Studies

Mesloh, Charlie	FGCU-ORSP	Beanbag Munition Kinetic Energy	\$5,000
Mesloh, Charlie	FGCU-ORSP	Video Arcade System Alternative to Firearms Simulator Technology	\$5,000

FUNDING OPPORTUNITIES

BUSINESS

FINRA INVESTOR EDUCATION FOUNDATION

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

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

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

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

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

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

Deadline: Project Concept Forms received by **March 4, 2010**, will be entered into the application process for a September 2010 funding decision

CRIMINAL JUSTICE

R&D ON FORENSIC CRIME SCENE AND MEDICOLEGAL DEATH INVESTIGATIONS

The National Institute of Justice/Department of Justice seeks applications for research and development to enhance forensic crime scene examinations and forensic medicolegal death investigations. Proposed projects may focus on, but are not limited to, the following forensic disciplines:

- crime scene examination;
- medicolegal death investigations;
- forensic pathology;
- forensic anthropology;
- forensic odontology; and
- fire scene analysis.

This solicitation focuses on:

- New or improved forensic tools and technologies that will allow for the detection and identification of evidence at a crime scene;
- New and improved forensic tools, technologies, or methods to aid in crime scene reconstruction to better examine, illustrate, and document a scene;
- Forensic tools and technologies to assist the forensic pathologist and medicolegal death investigator in determining the cause and manner of death;
- Research and development into the use of forensic virtual autopsy as a tool in post-mortem examination, whether used in concert with standard gross autopsy, or as a stand-alone tool, to execute a thorough post-mortem examination;
- Studies in forensic taphonomy and postmortem interval to better estimate time since death;
- Research in forensic pathology, specifically including research into the cause and manner of suspicious pediatric deaths;
- Forensic studies on the physics of wounding as related to trauma analysis, to assist in the determination of cause of death; and
- Updated forensic morphometric standards to better assess the biological profile of unidentified human remains to assist in the identification of those remains.

Funding for an individual research or development project rarely exceeds \$500,000 annually, The total period of an award, including one that receives additional funding, ordinarily will not exceed 3 years. Submission is via the Grants Management System. Please contact Beth Rieger or Donna Stremke for details.

<http://www.ncjrs.gov/pdffiles1/nij/sl000925>

Deadline: February 16, 2010

R&D ON INSTRUMENTAL ANALYSIS FOR FORENSIC SCIENCE APPLICATIONS

The National Institute of Justice/Department of Justice seeks applications for research and development to enhance instrumental methods of analysis employed within forensic science disciplines. The goal is to improve the quantitative and qualitative analyses of evidence and to enhance the ability of the forensic science community to identify, analyze, and interpret evidence.

The sponsor is seeking applications for funding research and development of instrumental analysis techniques to address the need(s) of State and local forensic science practitioners. This solicitation focuses on: Development of novel analytical techniques to analyze and interpret evidence; Improvements in the reliability, reproducibility, selectivity, and/or sensitivity of current methods used in crime laboratories for forensic analysis; Instrumental systems to improve analysis throughput; Analytical instruments for onsite presumptive and/or confirmatory analysis of evidence; and Novel approaches and enhancement of current approaches to interpret data derived from evidence, including assessment of the significance of association.

Funding for an individual research or development project rarely exceeds \$500,000 annually. The total period of an award, including one that receives additional funding, ordinarily will not exceed 3 years.

Submission is via the Grants Management System. Contact Beth Rieger or Donna Stremke for details.

<http://www.ncjrs.gov/pdffiles1/nij/sl000926.pdf>

Deadline: February 16, 2010

EDUCATION

COLLEGE ASSISTANCE MIGRANT PROGRAM (CAMP)

The US ED CAMP program provides academic and financial support to help migrant and seasonal farmworkers and their children complete their first year of college. An invitational priority is to engage faith-based and community organizations in the delivery of services under this program. Estimated Range of Awards: \$180,000–\$425,000.

<http://edocket.access.gpo.gov/2009/pdf/E9-29810.pdf>

Deadline: February 16, 2010 via e-grants. Contact Beth Rieger or Donna Stremke for details.

HIGH SCHOOL EQUIVALENCY PROGRAM (HEP)

The US EDHEP program helps migrant and seasonal farmworkers and members of their immediate family obtain a general education diploma (GED) that meets the guidelines for high school equivalency established by the State in which the HEP project is conducted, and to gain employment or be placed in an institution of higher education (IHE) or other postsecondary education or training. Estimated Range of Awards: \$180,000–\$475,000. Project Period: Up to 60 months.

<http://edocket.access.gpo.gov/2009/pdf/E9-29807.pdf>

Deadline: February 16, 2010 via e-grants. Contact Beth Rieger or Donna Stremke for details.

NCMHD HEALTH DISPARITIES RESEARCH ON MINORITY AND UNDERSERVED POPULATIONS

The overarching goal of this FOA is to solicit innovative research addressing elements that eliminates health disparities. Research focused on disease and/or conditions that disproportionately affect racial/ethnic minorities is a growing field and has been employed lately in understanding dynamics contributing to health disparities. Funding for this FOA will support investigators who propose to conduct health disparities research using its principles to improve health inequities. The research should take into account the characteristics of health systems and health seeking behaviors that propagate disparities. The focus of targeted research population is diverse. It includes ethnic racial minorities, medically underserved and vulnerable populations, and rural and low-income populations. Several approaches could be used when designing programs; specific interventions may include but are not limited to biological, behavioral change strategies, lifestyle factors, environmental, social and structural barriers, economics, institutional and cultural, family influences, delivery system interventions, medical procedures and regimens (including alternative therapy), medical and assistive devices and technologies.

An applicant may request a budget of direct costs up to \$250K per year and a project period of up to 5 years. Applicants may only submit only one application in response to this FOA. Submission is via grants.gov *and* ERA Commons. Contact Beth Rieger or Donna Stremke for details.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-10-003.html>

Deadline: January 26, 2010 (Letters of Intent)

Application: February 26, 2010

Earliest Anticipated Start Date: September 2010

THE MESSAGE THERAPY FOUNDATION RESEARCH GRANTS PROGRAM

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

Research Grants are available to investigators who:

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

involved in the development and execution of the proposed research project and should be identified as such in the staffing plan.

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

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

Deadline: March 1, 2010 (postmark)

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. The goals of the workshops are to

- increase knowledge and appreciation of subjects, ideas, and places significant to American history and culture;
- provide teachers with expertise in the use and interpretation of historical sites and of material and archival resources; and
- encourage historical and cultural sites to develop greater capacity and scale for professional development programs.

NEH Landmarks workshops should be held at or near sites important to American history and culture (e.g., presidential residences or libraries; colonial-era settlements; major battlefields; historic districts; parks and preserves; sites of key economic, social, political, and constitutional developments; and places associated with major writers, artists, and musicians). Applicants should make a compelling case for the historical significance of the site(s), the material resources available for use, and the ways in which the site(s) will enhance the workshop.

NEH Landmarks workshops should be academically rigorous and focus on key primary sources, documents, and works relevant to major themes of American history and culture. Leading scholars should serve as lecturers or seminar leaders. Workshops should also provide the opportunity to work with primary documents and develop classroom resources or a research project. Institutions or organizations that may host workshops include community colleges, universities, four-year colleges, learned societies, libraries or other repositories, centers for advanced study, cultural organizations, and professional associations. NEH expects host institutions to provide facilities conducive to scholarly research, discussion, and interaction. Host institutions should arrange adequate housing for participants, which participants pay for from the stipends provided to them as part of the Landmarks workshop grant.

NEH encourages proposals for Landmarks of American History and Culture workshops that

- focus on one or more of the artists or artworks featured in the NEH [Picturing America](#) program, or
- respond to NEH's new *Bridging Cultures* initiative. Such projects might explore the great variety of cultural influences on, and myriad subcultures within, American society. Projects might also investigate how Americans have approached and attempted to surmount seemingly unbridgeable cultural divides, or examine the ideals of civility and civic discourse that have informed this quest.

Workshops, which should be offered two times during the summer, should accommodate forty school teachers (NEH Summer Scholars) at each one-week session. Because of school calendars, NEH Landmarks workshops for school teachers should begin no earlier than late June and end before the middle of August. NEH recommends that at least one of the two workshops supported by the grant should be held in July.

Participants must be chosen by a selection committee convened by the project director. Landmarks selection committees for school teacher programs customarily consist of three members: the project director, one of the project scholars, and a veteran school teacher. NEH staff will provide general eligibility and selection criteria, along with guidelines for applications to participate in a Landmarks workshop.

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](#).

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.

The goals of the workshops are to:

- increase knowledge and appreciation of subjects, ideas, and places significant to American history and culture;
- provide community college faculty with expertise in the use and interpretation of historical and cultural sites and of material and archival resources; and
- encourage historical and cultural sites to develop greater capacity and scale for professional development programs.

NEH Landmarks workshops should take place at or near sites important to American history and culture (e.g., presidential residences or libraries; colonial-era settlements; major battlefields; his-

toric districts; parks and preserves; sites of key economic, social, political, and constitutional developments; and places associated with major writers, artists, or musicians). Applicants should make a compelling case for the historical significance of the site(s), the material resources available for use, and the ways in which the site(s) will enhance the workshop.

NEH Landmarks workshops should be academically rigorous and focus on key primary sources, documents, and works relevant to major themes of American history and culture. Leading scholars should serve as lecturers or seminar leaders to help participants enhance their teaching. Participants should demonstrate their expanded knowledge and skills through the development of a research paper or course materials. Institutions or organizations that may host workshops include community colleges, universities, four-year colleges, learned societies, libraries or other repositories, centers for advanced study, cultural organizations, and professional associations. NEH expects host institutions to provide facilities conducive to scholarly research, discussion, and interaction. Host institutions should arrange adequate housing for participants, which participants pay for from the stipends provided to them as part of the Landmarks workshop grant.

NEH encourages proposals for Landmarks of American History and Culture workshops that:

- focus on one or more of the artists or artworks featured in the NEH [*Picturing America*](#) program, or
- respond to NEH's new *Bridging Cultures* initiative. Such projects might explore the great variety of cultural influences on, and myriad subcultures within, American society. Projects might also investigate how Americans have approached and attempted to surmount seemingly unbridgeable cultural divides, or examine the ideals of civility and civic discourse that have informed this quest.

Workshops, which should be offered two times during the summer, should accommodate twenty-five community college faculty (NEH Summer Scholars) at each one-week session.

NEH Landmarks workshops for community college faculty should be scheduled when faculty are most likely to be able to attend during the summer. Project directors should remember that many potential participants will teach one or more terms during the summer.

Participants must be chosen by a selection committee convened by the project director. Landmarks selection committees for community college programs customarily consist of three members: the project director and two other scholars in the field, at least one of whom must be a community college faculty member or administrator. NEH staff will provide general eligibility and selection criteria, along with guidelines for applications to participate in a Landmarks workshop.

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.

NEH SUMMER SEMINARS AND INSTITUTES

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

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

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

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

Deadline: March 2, 2010 via grants.gov.

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.

Most electronic records archives depend upon collaboration among archivists, record managers, and information technology specialists. Only a few organizations have all the required expertise, making training, collaboration and recruitment of new personnel essential components of electronic records archives. We strongly encourage applicants to include professional development components necessary for the success of the project. These may consist of basic or advanced electronic records and digital preservation training for archives staff, agency records managers, high level administrators, information technologists, and others. Projects cannot establish electronic document management systems that only manage born-digital records with limited retention periods. **Projects in this category cannot digitize historical records.** Applicants who wish to digitize records should refer to the [Digitizing Historical Records](#) announcement. Applications requesting support for these activities will be considered ineligible in this program.

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

Deadline: April 1, 2010 (optional draft)

Final Deadline: June 3, 2010 via grants.gov

ARCHIVES AND HISTORICAL PUBLISHING

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 \$150K. 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 and October 7, 2010

PUBLISHING HISTORICAL RECORDS

The National Historical Publications and Records Commission seeks proposals to publish historical records of national significance. Projects may focus on the papers of major figures from American life or cover broad historical movements in politics, military, business, social reform, the arts, and other aspects of the national experience. The historical value of the records and their expected usefulness to broad audiences must justify the costs of the project.

Grants are awarded for collecting, describing, preserving, compiling, editing, and publishing documentary source materials. The NHPRC does *not* fund proposals to purchase historical records; it also does *not* fund proposals to publish the papers of anyone who has been deceased for fewer than ten years. Eligible Activities Include:

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

A publishing project that has received NHPRC support can apply for a grant for a new or subsequent stage of that project. These proposals must demonstrate that they have successfully completed the performance objectives associated with previous NHPRC grant awards. Proposals must be substantially updated, including a description of the new activities and a justification of the new budget. The applicant must describe the extent to which the project met its performance objectives under its most recent grant.

Applicants not previously funded may apply for a grant to begin a historical documents publishing project. These applications are considered with other proposals and will be judged by the same criteria as others in that competition. All applicants should be aware that the application process is highly competitive.

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)

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

STRATEGIES AND TOOLS FOR ARCHIVES AND HISTORICAL PUBLISHING PROJECTS

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. If your project is focused 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 confirm that the project includes the information, the application will be ineligible.

Projects concerning records may focus on methods of working with any format including born-digital records. Publishing of historical records must focus on methods of presenting archival records as primary sources. The Commission does not fund projects focused on artifacts or books.

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

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.

To make these projects as widely useful as possible for archives, historical repositories, and researchers, the applications must demonstrate:

- The national significance of the collections or records series to be digitized;
- An effective work flow that repurposes existing descriptive material, rather than creating new metadata about the records;
- Reasonable costs and standards for the project as well as sustainable preservation plans for the resulting digital records;
- Well-designed plans that evaluate the use of the digitized materials and the effectiveness of the methods employed in digitizing and displaying the materials.

Projects may not use grant funds to:

- create descriptive metadata
- create edited transcriptions of the digitized materials
- develop websites where people will have to pay a fee to view the images.

A grant normally is for 1 to 3 years and up to \$150K. Cost sharing is required. The NHPRC will provide up to 50 percent of the total project costs.

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

Deadline: June 3, 2010

INTERDISCIPLINARY

NSF ENVIRONMENTAL SYNTHESIS CENTER

This solicitation will 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.

The new center for environmental synthesis will be international in scope, funded at a level that allows researchers from around the world to participate in synthesis using diverse, leading edge methods that will address issues and problems at a global scale. NSF expects this center to interact with other synthesis centers and activities, environmental observatory networks (e.g., National Ecological Observatory Network, Ocean Observatories Initiative; Past Global Changes; Global Ocean Ecosystem Dynamics, and the Long Term Ecological Research network, particularly in the areas of developing shared cyberinfrastructure and bioinformatics tools. The successful center will also collaborate with centers and organizations that use effective, innovative methods of GK-16 and informal science education.

Goals of this new activity include, but are not limited to:

- Understanding the feedback loops and tipping points that are essential characteristics of global oceanic and terrestrial environmental change
- Reducing the time required to address pressing environmental questions and problems
- Focusing on cross-disciplinary solutions
- Integrating diverse disciplines to achieve the goals of forecasting and prediction
- Understanding recent environmental change since humans populated the earth
- Integrating research, cyberinfrastructure, education and outreach to achieve environmental synthesis
- Engaging policymakers, managers and the general public in activities that lead to a better understanding of the interconnectedness of environmental systems and of the uncertainties inherent in predictions and forecasts.

The center may be multi-institutional. If such a plan is intended, the proposal must come from one leading institution; others should be included as sub-awardees. The advantages and strengths of a multi-institutional approach should be highlighted, if this structure is proposed.

The proposal must clearly and concisely justify center support; important considerations include the center's breadth of vision, education and outreach; leadership and management skills of its director(s); its international dimensions; communication and knowledge transfer; and how this center will cooperate with other, ongoing synthesis activities, as described above. This is not a research plan; it is a plan for how research activities will be fostered.

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

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

WORKING WITH MENTAL ILLNESS IN CORRECTIONS

The National Institute of Corrections solicits proposals to enter into a cooperative agreement for the development of a document to provide correctional administrators and practitioners in jails, prisons and community corrections a framework/model and guide to implement best strategies and practices to work with offenders diagnosed with mental illness or demonstrate mental health problems.

Transition and Offender Workforce Development Division seeks applications for the development of a competency-based, blended, e-learning and classroom training curriculum that will provide Employment Retention Specialists with the knowledge and skills needed for the provision of employment retention services for those identified as having barriers to sustained employment. The curriculum to be used in training Employment Retention Specialists will apply the cognitive-behavioral model of relapse prevention to job loss. Practitioners trained as Employment Retention Specialists will develop the competencies needed to assist offenders analyze the chain of events, behaviors and individual precursors that impact gainful employment and result in their separation from the workforce.

<http://community.nicic.org/blogs/nic/ER.Grants.pdf>

Deadline: February 12, 2010, via grants.gov.

HUMAN FRONTIER SCIENCE PROGRAM (HFSP)

The Human Frontier Science Program (HFSP) 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.

To stimulate novel, daring ideas and innovative approaches, preliminary results are not required in research grant applications. The HFSP places special emphasis on encouraging scientists early in their careers – this is expressed both in the establishment of a special Young Investigators' Grant and in encouraging scientists early in their careers to participate in the Program Grants. Applicants are expected to develop **new** lines of research through the collaboration.

The following guidelines provide the essential information necessary to submit a **research grant** application for the **award year 2011**. You should pay particular attention to the types of innovative projects that fall within the funding priorities of the HFSP, and to the aims of the Young Investigators' and Program Grants. Projects will be pre-screened upon reception by a small *ad hoc* scientific committee for their

Innovative nature

Interdisciplinary approach – new combinations of skills

International, preferably Intercontinental, nature

Scientists from all countries may participate in the Research Grant and Fellowship programs. The only restrictions on participation are:

- The **Principal Applicant** of a research grant must be from **one of the member countries** but other team members may be from anywhere in the world as long as the teams fulfill the basic international requirements described in the guidelines.
- **Young scientists from anywhere in the world** may apply for a Fellowship to work in a laboratory in **one of the supporting countries** (see list below). A scientist from one of the member countries can apply to work anywhere in the world.

The member countries are: Australia, Austria, Belgium, Bulgaria, Canada, Cyprus (EU part), the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, India, the Republic of Ireland, Italy, Japan, the Republic of Korea, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, the United Kingdom, and the United States of America.

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.

JOURNALISM

NEW VOICES REQUEST FOR PROPOSALS - 2010

Is something missing in your local **media** landscape? Are you craving news and information sources that energize, **engage** and build a sense of **community** and connection? Are you ready to **be** the media you wish to see in your town?

The institute for Interactive Journalism invites you to **apply for funding** to launch a participatory news venture in your community. J-Lab will select **eight projects** in 2009. Each project may receive up to \$25K. Only start-up news initiatives can receive funding. Ongoing efforts are not eligible unless they are proposing a new project or product.

Projects can produce news and information for a geographic area such as a small town, city, county, state or region. Or they can serve a community of interest. Of the 8 projects to be funded in 2010, at least 3 grants are targeted for news initiatives in the 26 communities where the Knight brothers once owned newspapers. See that list at knightfoundation.org/programs/communities/.

Grantees may receive up to \$25K. They will receive \$17K the first year and are eligible for \$8K in matching funds in the second year.

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

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

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

SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS

PAN-AMERICAN ADVANCED STUDIES INSTITUTES PROGRAM

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

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

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

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

PRESIDENTIAL AWARDS FOR EXCELLENCE IN SCIENCE, MATHEMATICS AND ENGINEERING MENTORING

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

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

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

Deadlines: March 23, 2010 (for 2010 nominations)

October 06, 2010 (for 2011 nominations)

First Wednesday in October, Annually Thereafter

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**, and the Alliances for Graduate Education and the Professoriate (AGEP) program. No proposals requesting support under the Alliances for Graduate Education and the Professoriate (AGEP) program will be accepted in Fiscal Year 2010. For further information, please see the Dear Colleague Letter [NSF 10-016](#).

This portfolio of programs seeks to increase the number of students successfully completing quality degree programs in science, technology, engineering and mathematics. 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: African-Americans, Alaskan Natives, Native Americans, Hispanic Americans, and Native Pacific Islanders.

Managed synergistically, the **ABP** cluster enables seamless transitions from the STEM baccalaureate to attainment of the doctorate and entry to the STEM professoriate. ABP support begins at the baccalaureate level through the LSAMP program. **LSAMP** emphasizes development of broad-based regional and national alliances of academic institutions, school districts, state and local governments, and the private sector to increase the diversity and quality of the STEM workforce. Eligible LSAMP undergraduate students may receive continued

support for up to two additional years of STEM graduate study through the Bridge to the Doctorate (**BD**) Activity. The Bridge to the Doctorate provides significant financial support for matriculating candidates in STEM graduate programs at eligible alliance sites.

Innovation through Institutional Integration (I³) projects enable faculty, administrators, and others in institutions to think and act strategically about the creative integration of NSF-funded awards, with particular emphasis on awards managed through programs in the Directorate for Education and Human Resources (EHR), but not limited to those awards. For Fiscal Year 2010, proposals are being solicited in nine EHR programs that advance I³ goals: CREST, GSE, HBCU-UP, ITEST, LSAMP, MSP, Noyce, RDE, and TCUP.

Proposals may only be submitted by the following:

- **LSAMP:** Only baccalaureate-producing institutions may serve as lead institutions for LSAMP alliances.
- **LSAMP-BD:** Only senior-level LSAMP alliances (alliances with 10 or more years of continual LSAMP funding) are eligible to submit proposals for BD support.
- **LSAMP Educational Research Proposals:** Universities and two- and four-year colleges (including community colleges) located and accredited in the US, acting on behalf of their faculty members.
- **I³:** Limited to institutions of higher education (including two- and four-year colleges) accredited in, and having a campus located in the US. If the proposal is exclusively for I³ STEM educational or related research, then all categories of proposers identified in the NSF Grant Proposal Guide are eligible to submit.

PI Limit:

- **LSAMP and LSAMP-BD:** To promote institutional commitments to increase the quality and quantity of underrepresented minorities in STEM disciplines at the undergraduate level, the President or Provost of the lead institution should serve as the Principal Investigator. A full explanation should be provided for a PI designation in variance with this requirement. Co-Principal investigators from partner institutions may be designated as appropriate for the project.
- **LSAMP Educational Research:** Eligible PI(s) for proposals from alliance partner institutions applying for LSAMP educational research support should be the cognizant faculty member(s) conducting the research and/or responsible for the educational research project.
- **I³:** The Principal Investigator must be the university provost or equivalent chief academic officer, unless the proposal is exclusively for I³ STEM educational or related research.

Limit on Number of Proposals per Organization:

- **LSAMP and LSAMP-BD:** Only one proposal per alliance.
- **LSAMP Educational Research Proposals:** Only one educational research proposal will be accepted per alliance. Partner institutions must coordinate submissions of educational research proposals with their lead institution.

- **I³**: For Fiscal Year 2010, proposals are being solicited in nine EHR programs that advance the goals of Innovation through Institutional Integration (I³): CREST, GSE, HBCU-UP, ITEST, LSAMP, MSP, Noyce, RDE, and TCUP. Given the focus on institutional integration, an institution may submit only one proposal to this I³ competition.

Limit on Number of Proposals per PI:

- LSAMP, LSAMP-BD and LSAMP Educational Research Proposals: One proposal per PI.
- Innovation through Institutional Integration (I³): No limit specified.

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 (Louis Stokes Alliances for Minority Participation & LSAMP Educational Research Proposals)

CYBERINFRASTRUCTURE FRAMEWORK FOR 21ST CENTURY SCIENCE AND ENGINEERING

Today, every discipline of science and engineering is being revolutionized by the widespread use of comprehensive cyberinfrastructure (CI). Computing power, data volumes, and network capacities are all on exponential growth paths, collaborations are growing dramatically, and all forms of CI---and multiple communities spanning multiple agencies and international domains---often must be brought to bear to address a single complex grand challenge problem, such as climate change. All of these developments are part of a revolutionary new approach to scientific discovery in which advanced computational facilities (e.g., data systems, computing hardware, high speed networks) and instruments (e.g., telescopes, sensor networks, sequencers) are coupled to the development of quantifiable models, algorithms, software and other tools and services to provide unique insights into complex problems in science and engineering.

NSF has, for over two decades, been providing the scientific community with open access to high performance computing facilities and the associated user support so that those facilities could be used to enable state-of-the-art, often transformative, scientific investigations. The support began in the 1980's with the initial funding of the NSF supercomputer centers, followed by the Partnerships for Advanced Computational Infrastructure (PACI) program and finally the TeraGrid program. Along with these programs, there have been other important developments in cyberinfrastructure such as the Open Science Grid, the National Virtual Observatory, data activities, major collaborative projects such as Network for Earthquake Engineering Simulation, The National Ecological Observatory Network, Ocean Observatories Initiative, Large Hadron Collider and many others too numerous to list here.

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

- High end computational, data, visualization and sensor-based systems and the associated user support needed for transformative science;

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

CF21 will consist of geographically distributed locally-available cyberinfrastructure, advanced computing resources found at larger centers, software environments, advanced networks and data storage capabilities in the US and other nations. This framework needs to address a wide range of needs and requirements beyond physical resources including expertise and know-how, access, policy, virtual communities and collaboration. These resources will be integrated, interoperable and comprehensive, so that individual researchers, teams, and multiple communities can more easily work together, bringing collaborative data- and compute-intensive methods to bear on the complex problems under investigation. Such an integrated cyberinfrastructure will also generate important economies of scale by leveraging closely related activities.

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

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

These Task Forces are composed of NSF program officers from each of the NSF research directorates and offices as well as a set of distinguished members from the external science and engineering community. The Task Forces are beginning to explore, discuss and generate a set of recommendations and ideas, and input is encouraged and solicited from the larger community to be combined and coordinated with the deliberations.

OCI has also established a Cyberinfrastructure Coordinating Committee (CICC) within NSF to help address CI efforts and plans across NSF. Additional efforts and collaborations will be developed and it is critical that these activities continue to expand in a coordinated way so that they also contribute to building out the vision for CF21.

The Task Forces and CICC are beginning to create working documents and meeting notes. Draft versions of these documents will be posted on an external wiki for public access and comment: https://nsf.sharepointspace.com/acci_public/default.aspx. Members of the community who are interested in tracking or contributing to CF21 activities are encouraged to send an email to acci-task-forces@nsf.gov.

NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

The Transportation Research Board invites applications to develop recommended guidelines for the selection of Test Levels 2 through 5 bridge rails considering in-service performance. A total of approximately \$250,000 is available.

The AASHTO Manual for Assessing Safety Hardware (MASH) and NCHRP Report 350: Recommended Procedures for the Safety Performance Evaluation of Highway Features, contain 6 test levels for evaluating the safety performance of longitudinal barriers, including bridge rails. When NCHRP Report 350 procedures were adopted by the FHWA, the criteria for evaluating bridge rails that was contained in the AASHTO Guide Specification for Bridge Railings (1989) were superseded. However, there is currently no specific guidance on when to use the different test levels of bridge rails. In addition, the AASHTO LRFD Bridge Design Specification contains additional criteria for the height of the railings that may unnecessarily limit the selection of tested bridge railings.

There is a need for nationally recognized guidelines in order to promote consistency among the states. For example, many states use NCHRP Report 350 TL-4 railings while others use TL-3 railings as their standard for high-speed highways. The use of Test Levels 5 and 6 railings is at the discretion of the states, usually in locations with heavy truck traffic and an increased potential for ran-off-road crashes (such as on curves). There is also very little guidance concerning the use of TL-2 railings on lower speed facilities. The objective of this project is to develop recommended guidelines for the selection of Test Levels 2 through 5 bridge rails considering in-service performance.

A total of approximately \$250K is available for a project period of 24 months (includes 1 month for NCHRP review and approval of the Task 3 interim report and 3 months for NCHRP review and for contractor revision of the final report).

<http://144.171.11.40/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=2899>

Deadline: February 18, 2010 (receipt of hard copy)

DEPARTMENT OF THE NAVY RESEARCH AND DEVELOPMENT

The Naval Surface Warfare Center, Dahlgren Division (NSWCDD), is soliciting 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. PLEASE NOTE: NSWC is seeking submission of capability statements only. Specific research proposals may be returned to the submitting institution with a request to submit a capability statement. 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.

Awards under this BAA are expected to take the form of grants, cooperative agreements, other transactions, or contracts. The North American Industry Classification System (NAICS) Code is 541712 -- Research and Development in the Physical, Engineering, and Life Sciences. NSWC anticipates making multiple awards of grants, cooperative agreements, other transactions, or contracts. When appropriate, research grants will be the preferred award method. All white papers

received that indicate interest in a particular research area will be reviewed for potential research projects in that area, the topic number should be clearly identified. Selection of a source for each separate research project will be based primarily on "best match" of technical merit (offeror's interest, expertise, and capability) and potential for contribution to accomplishment of Navy/DOD missions, as presented in the white papers and considering other relevant information available to the evaluator. Anticipated cost will be considered in the selection, but cost will not be the primary determining factor. The selected source for each project will be requested to submit a detailed cost and technical proposal. Submission of a white paper or a detailed proposal does not assure the offeror of a subsequent award. White papers should be submitted as a MS Word file either (1) as an email attachment to dlgr_nswc_xds13@navy.mil OR (2) on CD to Grants Officer (N00178-10-Q-3903), NSWCDD (Code CXS13), 17632 Dahlgren Road, Suite 157, Dahlgren, VA 22448-5100.

<https://www.fbo.gov/index?s=opportunity&mode=form&id=19bed3b41180fea87997eb9fcfc8a1b3&tab=core&cvview=0&cck=1&au=&ck=>

Deadline: September 30, 2010

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.

For all programs except the *Fire Research Grants Program*, applications received after June 1, 2010 may be considered for funding under this solicitation in the current fiscal year or in the next fiscal year, subject to the availability of funds. For the *Fire Research Grants Program*, applications received after January 15, 2010 may be considered for funding under this solicitation in the current fiscal year or in the next fiscal year, subject to the availability of funds.

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

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

NSF CELLULAR SYSTEMS CLUSTER

The Cellular Systems Cluster, one of three thematic areas within the [Division of Molecular and Cellular Biosciences](#), supports research, across all taxa, into the structure and organization of cells and the dynamics of cellular processes. Cell Biology is at a juncture where powerful new techniques in microscopy and biophysics (including live cell imaging, and the ability to study molecular function and behavior in the cell at high resolution, down to the single molecule level)

are advancing rapidly. At the same time, modeling and computational approaches have developed to the point where they can, in concert with accurate and informative experimental datasets, generate predictive models that can be tested experimentally. The Cellular Systems cluster is interested not only in traditional areas of cell biology (such as the organization, function, and dynamics of membranes, organelles and other subcellular compartments, and intracellular and transmembrane signal transduction mechanisms and cell-cell signaling processes) but also in the development of quantitative, theory-driven approaches to cell biology that integrate experimental studies at the molecular genetic, biochemical, biophysical, transcriptomic and proteomic levels. Network theory (e.g., as applied to signal transduction) and molecular dynamic modeling (e.g., as applied to the structure/function relationships of cellular structures) are also of particular interest. While proposals using approaches and model systems traditional in the field of cell biology are welcome, studies focused on novel, unique approaches and on non-traditional model organisms are encouraged.

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

Deadline: July 12, 2010

NSF CYBER-PHYSICAL SYSTEMS (CPS)

The term cyber-physical system refers to the tight conjoining of and coordination between computational and physical resources. We envision that the cyber-physical systems of tomorrow will far exceed those of today in terms of adaptability, autonomy, efficiency, functionality, reliability, safety, and usability. Research advances in cyber-physical systems promise to transform our world with systems that respond more quickly (e.g., autonomous collision avoidance), are more precise (e.g., robotic surgery and nano-tolerance manufacturing), work in dangerous or inaccessible environments (e.g., autonomous systems for search and rescue, firefighting, and exploration), provide large-scale, distributed coordination (e.g., automated traffic control), are highly efficient (e.g., zero-net energy buildings), augment human capabilities, and enhance societal wellbeing (e.g., assistive technologies and ubiquitous healthcare monitoring and delivery).

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

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

Deadlines: March 11, 2010

Second Thursday in March, Annually Thereafter

NSF PROACTIVE RECRUITMENT IN INTRODUCTORY SCIENCE AND MATHEMATICS

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

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

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

RESEARCH ON 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)

WOMEN AND MATHEMATICS GRANTS

The Mathematical Association of America plans to award grants for projects designed to encourage college and university women or high school and middle school girls to study mathematics. The Tensor Foundation, working through the MAA, is soliciting college, university and secondary mathematics faculty (in conjunction with college or university faculty) and their departments and institutions to submit proposals. Projects may replicate existing successful projects, adapt components of such projects, or be innovative. Possible projects are to:

- organize a club for women interested in mathematics or mathematics and science;
- provide release time to allow a faculty member to prepare a course on women and mathematics, provided the host institution agrees to offer such a course;

- create a network of women professional mentors who will direct mathematics projects for girls;
- hold a conference for counselors to prepare them to encourage women and girls to continue to study mathematics;
- conduct a summer mathematics program for high school women;
- bring high school women onto a college campus for a Math Day with follow-up;
- structure a program for high school and/or college women to mentor younger female mathematics students with math projects or math clubs;
- form partnerships with industry to acquaint women students with real-life applications of mathematics.

Grants will be up to \$6,000 and will be made to the institution of the project director to be spent within the year. An institution is expected to supply matching funds or in-kind support as an indication of commitment to the project. These grants will not support any institutional indirect costs or provide fringe benefits. To provide maximum flexibility, unexpended funds may be carried forward. Some grants may be renewed for another year, with a three year maximum.

<http://www.maa.org/wam/tensor.html>

Deadline: February 12, 2010 (via e-mail)