



Office of Research and Sponsored Programs

Newsletter

March, 2007



Good Luck!

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ANNOUNCEMENTS

Research Day 2008

Mark your calendars! Research Day 2008 is **Friday, April 18**. It's been announced, you've been reminded, so you have no excuse for forgetting this fun and very, very interesting day. Mark your calendars!



ORSP Website

The Office of Research and Sponsored Programs offers a multitude of services to assist you in the preparation and submission of grant applications. The ORSP's website at <http://www.fgcu.edu/orsp> provides easy access to the forms, announcements, and other useful materials pertaining to research and sponsored programs at FGCU. 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 on file in our web-based database system. To edit a Genius profile, use an on-campus computer 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 that describe your research interests. For further assistance or if you any questions about these InfoEd products please contact Lucia Soria at asoria@fgcu.edu.

Find Funding at Your Convenience

If you have a GENIUS/SMARTS profile, you can search InfoEd's SPIN Plus from any on-campus computer to find funding. Call Lucia in the ORSP office at ext.7020 to send you instructions. You can also search the Grants.gov web site for all federal funding opportunities. See www.grants.gov.

ORSP Program: Student Travel Awards

The Office of Research and Sponsored Programs 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 will be required to participate in the ORSP Research Day event on April 20, 2007. See the complete guidelines and application form at: <http://www.fgcu.edu/orsp/internalPrograms.html>

ORSP Program: Faculty Travel Awards

The Office of Research and Sponsored Programs provides travel awards up to \$1,000 for faculty to attend technical workshops or other related activity that may lead to new funding from external sources. The travel must be for the purpose of increasing chances of obtaining a grant and a proposal must be submitted through ORSP as a result of the travel. The application

package consists of the following items: a 50-100 word abstract of the proposed project; information regarding the technical workshop or the specific purpose of the trip; and an estimated budget for travel expenses. Complete guidelines and application are available from ORSP's office and the web page at: <http://www.fgcu.edu/orsp/internalPrograms.html>

Grants.gov at FGCU



The Federal government requires most grants to be submitted through Grants.gov. ORSP has completed the credential process and is accustomed to using Grants.gov on a regular basis. For your convenience, the Grants.gov instructions are located on the marlin_share drive/Research and Sp Prog/Grants.gov. The Grants.gov icon is shown next to this month's Funding Announcements that require this submission process.

If you wish to apply for a grant, ORSP will send you the instruction manual and the downloaded application forms with the institutional information already entered. Please contact Beth Rieger at brieger@fgcu.edu to assist you in setting up your budget and completing your proposal/application package. If ORSP has assisted you with creating our Internal Budget, we will enter the budget information into the sponsor's budget form for you and provide you with a copy to assist you in preparing the budget justification.

ORSP needs to receive your completed proposal package **three business days** 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 contracts 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 two business days' lead time, we cannot guarantee that the proposal will be submitted.

Council on Undergraduate Research

The Council on Undergraduate Research (CUR) and its affiliated colleges, universities, and individuals share a focus on providing undergraduate research opportunities for faculty and students at predominantly undergraduate institutions. CUR has initiated a Registry of Undergraduate Researchers to facilitate matchmaking between undergraduates with research experience and a desire to pursue an advanced degree, and graduate schools seeking high quality students who are well prepared for research. The Registry is open to students and graduate schools/employers in the fields of Astronomy, Chemistry, Biochemistry, Biology, Physics, Mathematics, Computer Science, Geosciences, Engineering, Psychology, Sociology, and Anthropology/Archaeology. The registry is free of charge to students. <http://www.cur.org>



CONGRATULATIONS

Awards during February 2007

| College of Arts and Sciences | | | |
|--|---|---|---------------|
| FITCH, John | Bonita Springs Area Housing Development Corporation | Green Sustainable Designs for Affordable Housing in Bonita Springs (Part of the Sustaining Tomorrow, Today Project) | \$ 5,000.00 |
| FITCH, John | FGCU Foundation | Institute for Sustainability | \$ 4,061.51 |
| TOLLEY, S. Gregory | Florida Department Environmental Protection Agency | Institute of Coastal Watershed Studies partnership with Rookery Bay FY 2007-2008 | \$ 355,754.00 |
| TOLLEY, S. Gregory Fugate, David Parsons, Mike Peebles, Ernst | South Florida Water Management District | Responses to variation in seasonal freshwater inflow to the Caloosahatchee estuary | \$ 50,000.00 |
| WATANABE, Ken | National Aeronautics and Space Administration | INTEGRAL AO-5 | \$ 40,000.00 |
| WATANABE, Ken | National Aeronautics and Space Administration | Search for Unpredicted Gamma-Ray Lines with SPI | \$ 50,000.00 |
| College of Business | | | |
| FINCH, J. Howard | Alico Corporation | Alico Corporation Endowed Chairs | \$ 48,636.15 |
| REGELSKI, Dan | City of Cape Coral | SBDC/Cape Coral 2006 | \$ 15,000.00 |
| SWEENEY, James Csavina, Kristine | National Institute of Standards and Technology | Design Innovations and Evaluations for a Home, Lift, Position and Rehabilitation Chair Prototype | \$ 50,200.00 |
| College of Education | | | |
| GREENE, Marci | Naples Children & Education Foundation | Early Learning Literacy Model Project 2007 | \$ 49,607.96 |
| College of Health Professions | | | |
| RODGERS, Marianne | FGCU Foundation | Southwest Florida Endowed Nursing Chair | \$ 8,152.64 |
| Whitaker Center for Science, Mathematics, and Technology | | | |
| VOLETY, Aswani | West Coast Inland Navigation District | Marine Environmental Education and Outreach 2008 | \$ 100,000.00 |

We hope everybody enjoyed the spring break!



Have a happy St. Patrick's Day, too! (March 17)



Submissions during February 2007

| College of Arts and Sciences | | | |
|--|---|---|-----------------|
| BOVARD, Brian D. | Li-COR | LI-COR Environmental Education LEEF II Package | \$ 29,250.00 |
| GOGATE, Lakshmi | National Science Foundation | Auditory-Visual Perception and Word Mapping by Preverbal Infants | \$ 199,164.00 |
| DEMARCHI, Thomas | Southwest Florida Community Foundation | Sanibel Island Writers Conference 2007 | \$ 15,000.00 |
| DEMERS, Nora | Charlotte Harbor National Estuary Program | Establishing Sources and Fate of Nutrients and Determining Indicators of Restoration Success in San Carlos Park Waterbodies | \$ 31,366.00 |
| DEMERS, Nora | Southwest Florida Council for Environment Education, Inc. | Friends of the Gopher Tortoise in Cape Coral - A Collaborative Venture | \$ 5,000.00 |
| ORNDOFF, Cynthia Rodriguez, Walter E. | National Science Foundation | Increasing our Ranks via THOS: Ethics Online System for Science and Engineering | \$ 97,952.00 |
| College of Business | | | |
| GEIGER, Chris Isern, Sharon Michael, Scott | National Science Foundation | MRI Acquisition of a Confocal Imaging Core for Florida Gulf Coast University | \$ 718,600.00 |
| GUO, Dahai Zalewski, Janusz Greene, Patrick | Hewlett Packard | HP Higher Education Collaboration | \$ 77,000.00 |
| KUNBERGER, Tanya | National Science Foundation | BRIGE: Dual Integration of Research and Teaching (DIRT) in Geotechnical Engineering | \$ 127,907.00 |
| College of Education | | | |
| HOUSTON, Sherree | Florida Department of Education | Project Succeed, Second Year Expansion | \$ 150,000.00 |
| Academic Media and Technology Services | | | |
| DAVEY, Kathleen | Southwest Florida Council for Environment Education, Inc. | We're All Interconnected! | \$ 5,000.00 |
| DAVEY, Kathleen | Community Foundation of Collier County | Turn It Off! | \$ 9,995.00 |
| Whitaker Center for Science, Mathematics, and Technology | | | |
| SCHMIDT, Diane Savarese, Michael Lindsey, Charles Cooper, Susan | Florida Department of Education | BUDS in STEM Education | \$ 8,191,146.00 |

FUNDING OPPORTUNITIES

ARTS AND HUMANITIES

Challenge Grant: Digital Humanities Initiative (DHI)

NEH is interested in receiving applications for projects that use or study the impact of digital technology. Digital technologies offer humanists new methods of conducting research, conceptualizing relationships, and presenting scholarship. Digital humanities projects deploy these technologies and methods to enhance our understanding of a topic or issue. NEH is also interested in projects that study the impact of digital technology on the humanities—exploring the ways in which it changes how we read, write, think, and learn. The Endowment particularly encourages plans to strengthen technological infrastructure, thereby enhancing the applicant institution's ability to make use of new technologies in research, education, preservation, and public programming in the humanities. Challenge funds may be used, for example, to purchase equipment and software, renovate computing centers devoted to the humanities, and purchase databases. Through endowments, challenge funds can support maintenance and upgrades of equipment, software, and data; licensing fees; salaries of technical staff; faculty and staff training in uses of digital technology; and other ongoing expenses associated with uses of digital technology in the humanities.

Applications that involve digital humanities, in whole or in significant part, may be designated as coming in under DHI challenge grant rules. Applicants who want to be considered for DHI designation should so indicate in the appropriate space on their application.

DHI challenge grant may be held concurrently with a regular challenge grant. An institution may hold or have pending only one DHI challenge grant at a time. Successful applicants will be offered a matching grant. Recipients must raise three times the amount of federal funds offered. The limit on the amount of in-kind donations that may count toward the matching requirement is suspended for DHI challenge grants.

The requested grant amount should be appropriate to the humanities needs and the fund-raising capacity of the institution. The federal portions of NEH challenge grants have ranged in recent years from \$30K to \$1M. Please consult with NEH staff about the amount of your request.

The DHI Challenge Grant program is a limited application. Only one application from an institution will be considered. Those interested in applying must notify Donna Stremke in the Office of Research and Sponsored Programs (ext. 7029 or dstremke@fgcu.edu) and provide a 1-2 page abstract of the project by MARCH 28, 2008 for internal coordination.

Please Note - New guidelines for this program will be available in Spring of 2008. In the interim, the guidelines available at <http://www.neh.gov/grants/guidelines/challenge.html> can be used for reference, but should not be used to prepare an application.

Deadline: May 1, 2008

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

Professional Development Grants for Archives and Historical Publishing

The National Historical Publications and Records Commission seeks proposals designed 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.

This program does not support requests from individuals for their own training, education, or professional advancement.

Eligible applicants include:

- Individuals
- Nonprofit organizations and institutions
- Colleges, universities, and other academic institutions
- State or local government agencies
- Federally-acknowledged or state-recognized Native American tribes or groups

A grant normally is for one to three years and up to \$100,000. The Commission expects to make up to 5 grants in this category, for a total of up to \$200,000 during the two rounds in a fiscal year. The Commission ordinarily provides no more than 50 percent of total project costs for Professional Development projects.

Applicants may submit an optional draft application. Drafts will be read and applicants will receive comments if they are received by **April 1, 2008**. Applications are due **JUNE 2, 2008**.

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

Wenner-Gren Foundation for Anthropological Research, Inc. Grant Programs

The Wenner-Gren Foundation for Anthropological Research, Inc. is a private operating Foundation that is dedicated to the advancement of anthropology throughout the world. Through programs of funding for research projects, conferences, symposia, fellowships, and publication, the Foundation aids basic research in all branches of anthropology and closely related disciplines concerned with human origins, development and variation.

Grants are available for the following programs:

Post-Ph.D. Research Grants Post-Ph.D. Research Grants for up to \$25,000 are awarded to individuals holding a Ph.D. or equivalent degree to support individual research projects. Applicants must be engaged in research that contributes to anthropological knowledge. Applicants of any nationality or country of residence may apply. **Deadlines: May 1 and November 1, 2008.**

Hunt Postdoctoral Fellowships Hunt Postdoctoral Fellowships provide up to \$40,000 towards the writing-up of already completed research. The fellowship is awarded to scholars who are

within ten years of the receipt of their Ph.D. and supports them early in their career when they frequently lack the time and resources to publish. Deadlines: **May 1 and November 1, 2008.**

International Collaborative Research Grants International Collaborative Research Grants (ICRG) provide up to \$30,000 to support research collaborations between two or more qualified scholars, where the principal investigators bring different and complementary perspectives, knowledge, and/or skills together. Supplemental funds are also available to provide essential training for academic research participants in ICRG funded projects. **Deadlines: June 1 and December 1, 2008.**

Conference and Workshop Grants Conference and Workshops Grants are available to international scholars to develop anthropological knowledge and debates. Grants are made for up to \$15,000. Deadlines: **June 1 and December 1, 2008.**

http://www.wennergren.org/programs/programs_list.htm?attrib_id=13233

History of Women in America

The Arthur and Elizabeth Schlesinger Library on the History of Women in America invites scholars whose research requires use of the library's collections to apply for research support. Grants of up to \$3,000 will be given on a competitive basis to cover travel expenses, living expenses, photocopying, and other incidental research expenses (but not the purchase of durable equipment). Applications will be evaluated on the significance of the research, the project's potential contribution to the advancement of knowledge, and its creativity in drawing on the library's holdings.

The Schlesinger Library is a non-circulating research library that documents the history of American women in the United States and abroad in the 19th and 20th centuries. It is open to the public and is affiliated with the Harvard University Library.

Awards will be made to scholars who have completed the Ph.D. or other doctoral degree before the time of application, or who have equivalent research and writing experience. Priority will be given to scholars who have demonstrated research productivity and who are at work on projects that require access to resources available only at the Schlesinger Library.

Deadline: April 3, 2008

http://www.radcliffe.edu/schles/grants/research_support.php

ASTRONOMY

Research Opportunities in Space & Earth Sciences (ROSES)

The National Aeronautics and Space Administration has released its omnibus Research Announcement, entitled Research Opportunities in Space and Earth Sciences (ROSES) – 2008 which solicits basic and applied research in support of NASA's Science Mission Directorate.

This NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, stratospheric balloon, and suborbital rocket investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data.

Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years) periods. Organizations of every type, domestic and foreign, Government and private, for profit and not-for-profit, may submit proposals without restriction on number or teaming arrangements.

Proposal due dates are scheduled starting on **May 9, 2008**, and continue through **March 27, 2009**. Electronically submitted Notices of Intent to propose are requested for most program elements, with the first such due date being **March 14, 2008**.

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={7A237BC8-9809-BB78-9C86-BB33ACF962C9}&path=open>

BIOLOGY/CHEMISTRY/MATH

Broad Agency Announcement for Basic & Applied Scientific Research

Applications are sought through the Army Research Laboratory (ARL) and the Army Research Office (ARO) Broad Agency Announcement (BAA) which solicits proposals for their basic and applied scientific research needs through FY 2011.

ARO has primary responsibility for ARL's extramural basic research programs, within the following broad topic areas:

- Mechanical Sciences
- Environmental Sciences
- Mathematical Sciences
- Electronics
- Computing & Information Sciences
- Physics
- Chemistry
- Life Sciences
- Materials Science

ARO also supports Short-Term Innovative Research, a Young Investigator Program, research instrumentation, and conferences and symposia.

The ARL directorates, while having primary responsibility for ARL's in-house research programs, also manage selected extramural basic research programs. Although ARL directorates will consider proposals for comprehensive and interdisciplinary research programs, they can fund only a small number of proposals in a single fiscal year. The research interests of the ARL directorates fall into the following broad areas:

- Computational & Information Sciences
- Sensors & Electronic Devices
- Survivability/Lethality Analysis
- Weapons & Materials Research
- Human Research Engineering
- Vehicle Technology

Interested applicants should discuss their proposed project with a technical point of contact (TPOC) to see if submission of a White Paper is warranted. Those whose White Papers receive a favorable evaluation may be invited to prepare a complete proposal. For ARL research areas, please discuss the preferred performance period with the TPOC. For ARO research areas, it is preferred that proposals cover a 3-year period.

White Papers may be submitted at ANY TIME through **September 30, 2011**.
<http://www.aro.army.mil/baa>

BUSINESS

Small Business Technology Transfer (STTR) Program

The Army, Navy, Air Force, Defense Advanced Research Projects Agency (DARPA), and the Office of Secretary of Defense (OSD) invite small business firms and research institutions to jointly submit proposals under this solicitation for the Department of Defense (DOD) Small Business Technology Transfer (STTR) program.

The STTR Program is a program under which awards are made to small business concerns for cooperative research and development, conducted jointly by a small business and a research institution, through a uniform process having three phases. STTR, although modeled substantially on the Small Business Innovation Research (SBIR) Program, is a separate program and is separately financed. Subject to availability of funds, the participating DOD agencies will support high quality cooperative research and development proposals of innovative concepts to solve the listed defense-related scientific or engineering problems, especially those concepts that also have high potential for commercialization in the private sector.

The STTR Program is designed to provide a strong incentive for small companies and researchers at research institutions, i.e., non-profit research institutions, contractor-operated federally funded research and development centers (FFRDCs), and universities, to work together as a team to move ideas from the research institution to the marketplace, to foster high-tech economic development, and to address the technological needs of our armed forces.

Phase I is to determine the scientific, technical and commercial merit and feasibility of the proposed cooperative effort and the quality of performance of the small business concern with a relatively small investment before consideration of future DOD support in Phase II. Proposals will be evaluated on a competitive basis, giving primary consideration to the scientific and technical merit of the proposal along with its potential for commercialization. Phase I awards are limited to \$100,000 in size over a period not to exceed one year.

Interested applicants should consult the solicitation for details on the topics of interest to the participating DOD agencies.

Applications will be accepted between **February 19, 2008** and 6 AM EST on **MARCH 19, 2008**.

<http://www.acq.osd.mil/osbp/sbir/solicitations/sttr08A/index.htm>

COMPUTER SCIENCES

Broadening Participation in Computing

The National Science Foundation's *Broadening Participation in Computing (BPC)* program aims to significantly increase the number of U.S. citizens and permanent residents receiving postsecondary degrees in the computing disciplines, with an emphasis on students from communities with longstanding underrepresentation in computing: women, persons with disabilities and minorities. Included minorities are African Americans, Hispanics, American Indians, Alaska Natives, Native Hawaiians and Pacific Islanders.

The BPC program seeks to engage the computing community in developing and implementing innovative methods to improve recruitment and retention of these students at the undergraduate and graduate levels. Because the lack of role models in the professoriate can be a barrier to participation, the BPC program also aims to develop effective strategies for encouraging individuals to pursue academic careers in computing and become these role models.

There are three components to the BPC program:

- **Alliances:** Broad Alliances of institutions and organizations will design and carry out comprehensive programs that address underrepresentation in the computing disciplines. Alliances will join academic institutions of higher learning with secondary (and possibly middle) schools, government, industry, professional societies, and other not-for-profit organizations. In most cases, Alliances will involve multiple academic institutions of higher learning. Together, the participants will (1) develop and implement interventions that support students, (2) create sustainable changes in culture and practices at the institutional, departmental, and organizational levels, and (3) serve as models and repositories for effective practices to broaden participation. The emphasis will be on activities that have significant impact both in the quality of opportunities afforded to students and in the number of students potentially served. While the focus is on implementations, an Alliance may include complementary research that informs the design of its activities. The leveraging of existing efforts both across and within the underrepresented communities is strongly encouraged.

- **Alliance Extensions:** Successful BPC Alliances can propose additional funding to significantly expand the impact of their work. The new funding can overlap with the final year of the existing Alliance project and can extend it for up to two years. Extensions must increase not just the duration of the Alliance award but also its scope, introducing additional targeted student groups, partners, and/or projects.
- **Demonstration Projects:** Demonstration Projects (DPs) are smaller in scope and narrower in focus than Alliance projects. Typically DPs will be pilots of innovative programs that, once fully developed, could be incorporated into the activities of an Alliance. Projects might, for example, be proposed by a single institution or might focus on a specific underrepresented community, a specific point in the academic pipeline, or on a specific impediment to full participation in computing. As in the case of Alliances, complementary, well-defined research aimed at informing the development of the project can be included.

The following awards are anticipated:

- Alliance Awards can range from \$200,000 to \$750,000 per year for three years; the maximum award will be \$2,000,000.
- Alliance Extension Awards can range from \$200,000 to \$750,000 per year for three years; the maximum award will be \$2,000,000.
- Demonstration Projects will range up to \$200,000 per year for three years; average award will be \$500,000.

Approximately \$14 million in awards will be made each year, pending availability of funding and the quality of the proposals.

Proposals are due **MAY 21, 2008**.

<http://www.nsf.gov/pubs/2007/nsf07548/nsf07548.htm>

CRIMINAL JUSTICE

Solicitation: Criminal Justice Technology Evaluation

The National Institute of Justice is seeking applications for funding of evaluations of criminal justice technologies. This program furthers the Department's mission by sponsoring research to provide objective, independent, evidence-based knowledge and tools to meet the challenges of crime and justice, particularly at the State and local levels.

NIJ will consider applications that seek to evaluate applied technologies that prevent and reduce crime, and improve the functioning of the criminal justice system. In preparation for this solicitation, NIJ reviewed a wide range of technologies applicable to criminal justice. NIJ commissioned evaluation assessments of the following 14 technologies and determined that they are strong candidates for a full-scale evaluation:

- Alcohol monitoring of offenders under supervised release.
- Offender tracking systems.
- Radio Frequency Identification (RFID) technologies.

- Mobile identification biometric devices.
- GPS-based Automated Vehicle Locator technologies.
- Automated license plate recognition systems.
- Pawnbroker databases.
- Trace detection technologies for narcotics, explosives, and other contraband.
- Conducted energy devices.
- Driver`s license image sharing.
- Warrant sharing.
- Mobile fingerprinting readers.
- Cost-saving DNA technology: robotic systems, expert systems.
- Dispatch systems: prioritization software.

NIJ encourages applicants to consider submitting proposals in one of these technology areas. However, other appropriate technologies may also be considered for evaluation. In all cases, proposals should provide specific evaluation information, including the name and description of the technology to be evaluated and where the technology has been implemented. Applicants submitting proposals that involve technology areas other than those summarized above must demonstrate how the technology can be evaluated.

NIJ gives special consideration to research and evaluation that entails proposing randomized experiments, regression continuity, propensity scoring, and other enhanced quasi-experimental designs that maximize validity and reliability.

NIJ anticipates that up to \$2 million may become available for awards made through this solicitation. NIJ expects to make two to eight awards depending on funds available and number of high-quality applications.

All applications are due **APRIL 4, 2008**, 11:59 p.m. eastern time.
<http://www.ncjrs.gov/pdffiles1/nij/sl000825.pdf>

National Field-Generated Training, Technical Assistance, and Demonstration Projects

The National Field-Generated Training, Technical Assistance, and Demonstration Projects solicitation asks applicants to submit applications to develop or enhance training, technical assistance, and promising practices, models, and programs that build the capacity of victim service and other ancillary providers to provide services and support to crime victims or to ensure that victims are afforded the rights to which they are due. Projects should focus on one of the following focus areas: elder abuse, sexual assault, victim restitution, child abuse, youth victimization, capacity building for victim service providers/organizations, victim services in corrections settings, domestic violence, stalking, the implications of DNA evidence for victims, and training and technical assistance on crime victims` rights (not direct compliance or enforcement efforts).

OVC seeks to ensure that all crime victims, including those from underserved populations, receive comprehensive, quality services and are afforded fundamental rights. In support of this goal, OVC invites proposals from organizations that wish to expand, enhance, or develop

training, technical assistance, or demonstration projects on a specific emerging or enduring challenge in the victim service field.

Applicants are limited to private nonprofit organizations, including faith-based and community-based organizations, colleges or universities, or public agencies that can demonstrate (1) knowledge and understanding of one or more of the victimization areas described in this solicitation; and (2) staff resources and capability to develop or enhance national-scope resources for the crime victims` field in one or more of the victimization areas described in this solicitation.

Awards will be made ranging from \$50,000 to \$500,000, depending on the nature, scope, and complexity of the project. Project periods will range from 12 to 36 months. Most awards will be in the \$100,000 to \$150,000 range.

The deadline for applications is 8 PM, ET on **MAY 29, 2008**.
http://www.ovc.gov/fund/pdf/txt/FY08_fieldtraining.pdf

CROP SCIENCES

Potato Research

The USDA Cooperative State Research, Education and Extension Service (CSREES) requests applications for the Special Research Grants Program, Potato Research for fiscal year (FY) 2008 to facilitate or expand ongoing State-Federal food and agricultural research programs. The anticipated amount available for support of this program in FY 2008 will be approximately \$1,100,000.

The purpose of this grant program is to support potato (*Solanum tuberosum L.*) research that focuses on varietal development/testing and whose output will be or include potato varieties. Varietal development/testing is research using traditional and biotechnological genetics to develop improved potato variety(ies). Aspects of evaluation, screening and testing must support or complement the development of improved varieties.

Each proposal submitted in FY 2008 can request funding for a period not to exceed one year. CSREES does not require matching support for this program and matching resources will not be factored into the review process as evaluation criteria. It is expected that four to five Potato Research applications will be funded in FY 2008.

The application deadline is **MARCH 24, 2008**.
<http://www.csrees.usda.gov/funding/rfas/potato.html>

DEFENSE INITIATIVES

Broad Area Announcements

The Combating Terrorism Technology Support Office (CTTSO) has issued two Broad Agency Announcements (BAAs) soliciting concepts for innovative research and development projects. CTTSO is interested in proposals in the following areas of combating terrorism:

BAA N41756-08-Q-3033 - U.S. Navy Engineering Logistics Office (NELO) is procuring office for this BAA. Mission Areas are: Blast Effects and Mitigation (BX), Improvised Explosive Device Defeat (IDD); Irregular Warfare Support (IWS); Training Technology Development (TTD); Physical Security (PS); Tactical Operations Support (TOS); Personnel/VIP Protection (VIP); and Explosive Ordnance Disposal/Low Intensity Conflict (EOD/LIC). The BAA package is expected to become available on or about March 5, 2008 and potential offerors are encouraged to download the BAA package as soon as it becomes available. The BAA package will describe the full process for concept submission.

BAA W91CRB-08-T-0045 - The U.S. Army RDECOM Acquisition Center is the procuring office for this BAA. Mission Areas include: Chemical, Biological, Radiological and Nuclear Countermeasures (CB); Explosives Detection (ED); Investigative Support and Forensics (IS); Physical Security (PS); Tactical Operations Support and Surveillance, Collections, Operations Support. The BAA package will be available on or about March 6, 2008. Phase 1 Quad Charts are due no later than **APRIL 7, 2008**.

<http://www.fbo.gov/spg/DON/NELO/NELO/N41756-08-Q-3033/SynopsisP.html>

Air Force Office of Scientific Research BAA

The Air Force Office of Scientific Research (AFOSR) manages the basic research investment for the U.S. Air Force (USAF). As a part of the Air Force Research Laboratory (AFRL), AFOSR's technical experts foster and fund research within the Air Force Research Laboratory, universities and industry laboratories to ensure the transition of research results to support USAF needs.

Using a carefully balanced research portfolio, research managers seek to create revolutionary scientific breakthrough, enabling the Air Force and U.S. industry to produce world-class, militarily significant, and commercially valuable products. To accomplish this task, AFOSR solicits proposals for research through this general Broad Agency Announcement (BAA). This BAA outlines the Air Force Defense Research Sciences Program. AFOSR invites proposals for research in the following broad areas:

- Aerospace, Chemical and Materials Science
- Physics and Electronics
- Mathematics, Information and Life Sciences

Approximately \$200M is available for support of actions awarded through this BAA process. Awards average \$100,000 per year for three years.

This BAA will remain open through the remainder of FY 2008 or until replaced by a successor BAA. Proposals may be submitted at any time during this period. However, those planning to submit proposals should consider that **AFOSR commits the bulk of its funds in the Fall of each year.** Proposals are reviewed and evaluated as they are received.

<http://www.wpafb.af.mil/shared/media/document/AFD-080212-048.pdf>

ENVIRONMENTAL PROGRAMS

Consequences of Global Change for Water Quality

The Environmental Protection Agency (EPA) Office of Research and Development (ORD) National Center for Environmental Research (NCER), in cooperation with the EPA Global Change Research Program, announces a competition for projects supporting research into the consequences of climate change for U.S. water quality to support human and aquatic life uses. EPA is interested in the hydrologic and other watershed processes that affect water resources that may be altered by a changing climate. A better national scale understanding of the range of potential consequences of climate change will be useful both for fully accounting for the impacts of climate change and for developing regional adaptive strategies to reduce the risk of harmful impacts. The goal of this solicitation is to assemble modeling systems capable of capturing important linkages between regional climate drivers and terrestrial hydrologic systems and to apply these modeling systems to improve the overall understanding of the sensitivity of key water quality or aquatic ecosystem management targets to the types of climate changes anticipated over the next several decades.

In addition to regular awards, this solicitation includes the opportunity for early career projects. Please see Section III of this Request for Applications (RFA) for details on the early career eligibility criteria.

Deadline: May 08, 2008

http://es.epa.gov/ncer/rfa/2008/2008_star_gcwq.html#Submission

National Integrated Water Quality Program

The U.S. Department of Agriculture's (USDA) Cooperative State Research, Education and Extension Service (CSREES) requests applications for the Integrated Research, Education and Extension Competitive Grants Program: National Integrated Water Quality Program (NIWQP) for FY 2008. The amount available for support of this program in FY 2007 is approximately \$12.6 million.

The goal of the NIWQP is to contribute to the improvement of the quality of our Nation's surface water and groundwater resources through research, education and extension activities. Projects funded through this program will work to solve water resource problems by advancing and disseminating the knowledge base available to agricultural, rural, and urbanizing communities. Funded projects should lead to science-based decision making and management

practices that improve the quality of the Nation's surface water and groundwater resources in agricultural, rural and urbanizing watersheds.

FY 2008 Program Priorities include:

- Developing tools and expanding knowledge to make more efficient use of existing water supplies and conserve water in agricultural, rural, and urbanizing communities.
- Understanding the role of ecosystems in maintaining water availability and quality.
- Expanding knowledge on water use efficiency and water quality protection to improve water policy implementation and compliance.

Projects **MUST** address water quality issues in agricultural, rural, and/or urbanizing watersheds. Eight topical themes have been identified for the NIWQP:

- Animal Waste Management
- Drinking Water and Human Health
- Environmental Restoration
- Nutrient and Pesticide Management
- Pollution Assessment and Prevention
- Watershed Management
- Water Conservation and Agricultural Water Management
- Water Policy and Economics.

Applications are being solicited for the National Integrated Water Quality Program under the following areas:

- **National Water Resource Projects** - three to four awards of up to \$100,000/annually will be made for project period of 1 to 4 years;
- **Regional Water Resource Projects** - seven to ten awards of up to \$650,000/annually will be made for project periods of 1 to 4 years; and
- **Watershed Scale Projects** - ten to twelve awards of up to \$220,000/annually will be made for project periods of 1 to 3 years.

Deadline: APRIL 29, 2008.

http://www.csrees.usda.gov/funding/rfas/water_quality.html

Environmental Economics Workshops

The US Environmental Protection Agency's National Center for Environmental Economics (NCEE) is interested in supporting Environmental and Resource Economics workshops in each of the following categories:

- **Dissertation Workshops** – the goal of these workshops is to attract the best and brightest graduate students/new PhDs and improve the quality of current research topics in environmental economics.
- **Methods Development and Training Workshops** – these workshops should provide guidance and training on a specific analytical activity of importance in environmental economics.
- **Current Issues Workshops** – these workshops should advance the field of environmental economics by exploring current and emerging issues of national or regional significance.

Eligible applicants include States, territories, the District of Columbia, Indian Tribes, intrastate and interstate organizations, and possessions of the U.S. Eligible applicants also include public and private universities and colleges, hospitals, laboratories, and other public or private nonprofit institutions.

The total award amount is anticipated to be \$500,000. Individual proposals must be for less than \$200,000 to be considered. Assistance agreements may be awarded for project periods of up to 5 years where appropriate. Individual proposals must not involve more than one of the above three categories (i.e., dissertation, methods development and training, and current issues). Institutions and principal investigators may submit multiple but not duplicate proposals. EPA anticipates awarding 6 to 15 assistance agreements under this announcement, as either grants or cooperative agreements.

Applications must be received no later than **MARCH 24, 2008**, 4:00 PM EST.
<http://yosemite.epa.gov/ee/epa/eed.nsf/Webpages/GrantSolicitations.html>

Consequences of Global Change for Water Quality

The U.S. Environmental Protection Agency, as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research to better understand the effect of global change on U.S. water quality.

EPA is interested in the hydrologic and other watershed processes that affect water resources that may be altered by a changing climate. A better national scale understanding of the range of potential consequences of climate change will be useful both for fully accounting for the impacts of climate change and for developing regional adaptive strategies to reduce the risk of harmful impacts. The goal of this solicitation is to assemble modeling systems capable of capturing important linkages between regional climate drivers and terrestrial hydrologic systems and to apply these modeling systems to improve the overall understanding of the sensitivity of key water quality or aquatic ecosystem management targets to the types of climate changes anticipated over the next several decades.

Both regular research grants and early career awards are included in this funding opportunity. Public nonprofit institutions/organizations (includes public institutions of higher education and hospitals) and private nonprofit institutions/organizations (includes private institutions of higher education and hospitals) located in the U.S., state and local governments, Federally Recognized Indian Tribal Governments, and U.S. territories or possessions are eligible to apply for research grants.

The early career awards will support new, creative investigators with outstanding promise at the Assistant Professor or equivalent level. Principal investigators from applicant institutions applying for the early career portion of the RFA must meet the following additional eligibility requirements:

- Hold a doctoral degree in a field of science or engineering by the closing date of the RFA;
- Be untenured at the closing date of the RFA;
- By the award date, be employed in a tenure-track position (or tenure-track-equivalent position) as an assistant professor (or equivalent title) at an institution in the U.S., its territories, or possessions. Note: For a position to be considered a tenure-track-equivalent position, it must meet all of the following requirements: (1) the employing department or organization does not offer tenure; (2) the appointment is a continuing appointment; (3) the appointment has substantial educational responsibilities; and (4) the proposed project relates to the employee's career goals and job responsibilities as well as to the goals of the department/organization.
- Potential applicants who are uncertain of their eligibility should contact William Stelz (stelz.william@epa.gov) in NCER, phone (202) 343-9802.

It is anticipated that a total of approximately \$4,500,000 will be awarded under this announcement, depending on the availability of funds. The EPA anticipates funding approximately 5 regular grants under this RFA for \$800,000 or less. The EPA also anticipates funding approximately 2 early career projects for \$250,000 or less. Requests for amounts in excess of a total of \$800,000 (or \$250,000 for early career projects), including direct and indirect costs, will not be considered. The total project period for an application submitted in response to this RFA may not exceed 4 years.

Applications are due **MAY 8, 2008**, 4:00 PM Eastern Time.

http://es.epa.gov/ncer/rfa/2008/2008_star_gcwq.html

Water Reuse in 2030

The overarching goals of this project are to anticipate and forecast the global challenges which will confront water reuse over the next two decades and, by doing so, facilitate long-range planning and the conduct of appropriate research. This project is sponsored by the WaterReuse Foundation and supported by two members of the Global Water Research Coalition (GWRC): 1) Water Services Association of Australia; and 2) Singapore Public Utilities Board. The U.S. Bureau of Reclamation is a funding partner on this project.

With the WaterReuse Foundation as the lead sponsoring organization, the project will be organized to address the future challenges of water reuse both at a more global level and at the more specific U.S. level.

The objectives of the project are as follows:

- Document the current status of water reuse;
- Project the global status of planned water reuse in the year 2030;
- Describe the scale and scope of challenges that will shape and influence water reuse in the industrialized world over the intervening years; and
- Provide direction on adaptive strategies and research needs based on the future challenges which will be identified and characterized.

“Reuse” considerations should distinguish between non-potable applications (e.g., irrigation, industrial), planned indirect potable reuse, and direct potable reuse applications. Desalination and its impacts on water supplies should also be considered as a part of planned water use from alternative or non-traditional sources.

The maximum amount of funding available from the Foundation and its funding partners for this project is \$110,000. This project will require matching funds of at least 25% (or \$36,667) of total project costs. Therefore, the total project cost is \$146,667 – that is, \$110,000 (75%), and \$36,667 (25%). The matching contribution may consist of direct funding or in-kind contribution of such items as personnel costs, analytical and support services, facilities, consulting services, etc. An ideal source of in-kind contributions is water and/or wastewater utility participation in the project. Respondents may elect to contribute more than 25% to the project; however, the Foundation’s maximum contribution remains fixed at \$110,000. Proposals that request less than the \$110,000 from the Foundation need only contribute 25% of the total project cost.

Deadline: MARCH 17, 2008.

<http://www.watereuse.org/Foundation/rfp.htm>

Effective management of invasive non-native plants

Effective management of invasive non-native plants on Florida’s public lands and waterways requires science-based policy and methodology. The Florida Department of Environmental Protection’s Bureau of Invasive Plant Management annually provides funds to scientific researchers in support of the Bureau’s aquatic and upland plant management programs. Funded projects in research may vary from basic life history studies of invasive species to better invasive plant control methodology.

Areas of particular current research interest include, but are not limited to, the following:

- Improved practices for chemical control of *Colocasia esculenta*, *Dioscorea bulbifera*, *Eichhornia crassipes*, *Pistia stratiotes*, *Hymenachne amplexicaulis*, *Lygodium microphyllum*, *L. japonicum*, *Nymphoides cristata*, *Luiziola spruceana*, *Ruellia brittoniana*, and especially for controlling *Hydrilla verticillata* infestations in large lake systems
- Island apple snail (*Pomacea insularum*) impacts in Florida’s waterways
- Effects of climate change on invasive non-native plant populations in Florida
- Evaluation and cost effectiveness of different types of tussock shredding machines and aquatic plant harvesters
- Relationships between wildlife and the amount of vegetation control
- Research on the causes, impacts, and control of blue-green algae populations of *Lyngbya* and *Cylindrospermopsis*
- Research on the potential invasiveness of non-native bioenergy production plant species candidates in Florida (*Arundo donax*, *Pennisetum purpureum*, etc.)
- Susceptibility of native vegetation to increased concentrations of fluridone

- Impacts of epiphytic algae within the Order Stigonematales on apple snails and the birds that consume them – an AVM-related issue, and Order Stigonematales population range studies in Florida

A typical maximum funding for a year of university-research ranges from \$20,000 to \$35,000. Only government agencies and public universities are eligible for receiving bureau research funds that exceed \$25,000 for each research project for each fiscal year.

Deadline: APRIL 16, 2008. Full proposals will be invited.

<http://www.dep.state.fl.us/lands/invaspec/2ndlevpgs/Research.htm>

The Marine Debris Grants Program

The Marine Debris Grants Program provides grants to organizations working on projects to improve our understanding of the impacts of marine debris on our marine and coastal resources, and to reduce and prevent debris in our marine environment. The Program is a special project of the National Fish and Wildlife Foundation (Foundation), a not-for-profit 501(c)(3) organization established by Congress in 1984. The Program is administered by the Foundation, in cooperation with the NOAA Marine Debris Program.

The Program seeks to support projects that have a strong likelihood of reducing marine debris caused by derelict fishing gear (both commercial and recreational), to increase our understanding of the impacts, location and best methods for removal, and projects that engage marinas, ports and the fishing industry. The Program provides competitive grants to finance innovative proposals that seek to work with marinas, ports, and the fishing industry to significantly reduce the occurrence of debris in these areas.

The Program is also accepting research proposals that address the biological, social, or economic impact of marine debris on species, habitat, and coastal businesses. Proposals that assess marine environments that may serve as "sinks" for debris, examine impacts by debris type to both habitat and species, and that compare costs/benefits of removal efforts are of particular interest to the Program.

Proposals must identify which of the three focus areas they are addressing, and will be evaluated and selected based on criteria that includes but is not limited to merit, proposal quality, and available funding. Focus areas include:

- Ports, Marinas and Fishing Communities
- Gear Technology
- Marine Debris Research and Assessment

Eligible applicants are institutions of higher education, other non-profits, commercial organizations, and state (including Commissions), local, and tribal governments whose projects have the potential to benefit NOAA trust resources through marine debris research and prevention projects.

Approximately \$1,500,000 is available for calendar year 2008. The majority of grants are anticipated to fall between \$20,000 and \$200,000. Larger grants will be reserved for those projects that are structured to definitively answer key research questions or implement projects over a broad scale. Please note that applications smaller than \$10,000 will not be considered for support. A limited number of multi year (up to 3 years) grants will be awarded to exemplary projects that demonstrate a clear need and/or added value for the extended period.

Matching funds are not required under this program; however, they are strongly encouraged. Proposals that can demonstrate at least a 1:1 match will be most competitive.

Deadline: MAY 18, 2008. Full proposals will be invited.

http://www.nfwf.org/AM/Template.cfm?Section=Coastal_and_Marine_Conservation&Template=/CM/HTMLDisplay.cfm&ContentID=3917

HEALTH

Health Services Research Demonstration and Dissemination Grants

NIH seeks research on a wide range of topics under the following Priority Program Areas:



- **Support improvements in health outcomes** - AHRQ seeks to support research to understand and improve decision-making at all levels of the health care system, the outcomes of health care, and, in particular, what works, for whom, when, and at what cost.
- **Strengthen quality measurement and improvement** - AHRQ is interested in a broad array of research topics, including studies to develop valid and reliable measures of the process and outcomes of care, causation and prevention of errors in health care, strategies for incorporating quality measures into programs of quality improvement, and dissemination and implementation of validated quality improvement mechanisms.
- **Identify strategies to improve access, foster appropriate use, and reduce unnecessary expenditures** - This area focuses on issues pertaining to the types of health care services Americans use, the cost of these services and sources of payment, determinants of access to care, and whether particular approaches to health care delivery and financing, or characteristics of the health care market, alter behaviors in ways that improve access and promote cost-effective use of health care resources.

A number of populations are particularly vulnerable to impaired access to and suboptimal quality of care and experience poor health care outcomes. These groups, which warrant a special focus for health services research, include low-income groups, racial and ethnic minority groups, women, children, the elderly, individuals with special health care needs, including individuals with disabilities and those who need chronic care and end-of-life health care, and individuals living in inner-city, rural, and frontier areas. Persistent disparities in health status and access to appropriate health care services continue to be documented for certain groups, particularly racial and ethnic minority populations. Gender-based differences in access, quality, and outcomes are

also widespread with little understanding of the reasons for these differences. AHRQ encourages research demonstrations to address population-specific health issues of outcomes, quality, access to, cost, and use of services in each of the Priority Program Areas.

Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. However, the total costs awarded under this FOA will not exceed \$300,000 annually for the entire project period.

Deadline: May 25, 2008

<http://grants.nih.gov/grants/guide/pa-files/PA-07-247.html>

INTERNATIONAL OPPORTUNITIES

International Research and Studies Program

The U.S. Department of Education (U.S. ED), Office of Postsecondary Education (OPE), is accepting applications for its International Research and Studies Program. The purpose of the program is to conduct research and studies to improve and strengthen instruction in modern foreign languages, area studies, and other international fields.

OPE is particularly interested in applications that meet the following competitive preference priorities:

Competitive Preference Priority 1: Instructional Materials Applications - The development of specialized instructional materials for use by students and teachers in foreign language and international studies that are focused on one or more of the following critical language areas: Arabic, Chinese, Japanese, Korean, Russian, as well as Indic, Iranian, and Turkic language families; or the development of tools, technologies and materials to assess foreign language competency or fluency in one or more of the above critical language areas.

Competitive Preference Priority 2: Research, Surveys and Studies Applications - This priority is:

- The evaluation of instructional materials and foreign language assessments, including those instructional materials and assessments produced with funds from Title VI of the Higher Education Act of 1965, as amended, and published in print or electronic media, to determine their efficacy in improving teaching and learning in one or more of the following critical language areas: Arabic, Chinese, Japanese, Korean, Russian, as well as Indic, Iranian, and Turkic language families; or
- The update, expansion, or consolidation of existing foreign language and international studies web-based databases and the evaluation of the materials that are disseminated through those databases, including user comments.

Applications that meet one of these competitive preference priorities may be awarded up to an additional five points, depending on the extent to which the application meets the priority. The estimated range of awards is \$50,000-\$200,000 per year with project periods of up to 36 months. U.S. ED expects to make 14 awards under this program.

Deadline: April 7, 2008

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

Postdoctoral Fellowships for U.S. Scientists and Scholars

The Alexander von Humboldt Foundation enables young highly qualified U.S.-American scientists and scholars holding a doctorate to carry out a research project of their own choice in Germany. Applications may be submitted for long-term research stays of up to 24 months. Scholars and scientists of all academic disciplines may apply. There are no quotas for academic disciplines. The most important criteria for selection are the applicant's (international) publications to date and the quality and feasibility of the research proposal.

The research fellowship program is open primarily to young scientists and scholars under the age of 40. Research projects and German hosts are selected by applicants themselves. Scholars in the humanities or social sciences and physicians must have a good knowledge of German if it is necessary to carry out the project successfully. Details of research projects and schedules must be agreed upon between applicants and proposed hosts prior to the submission of applications. Monthly research fellowship rates range between EUR 2100, and EUR 3000. Fellowship rates are determined by the selection committee.

Deadline: Open

http://www.humboldt-foundation.de/en/programme/stip_aus/tshp1.htm

PSYCHOLOGY

Violence Prevention and Intervention

The American Psychological Foundation is a nonprofit philanthropic organization that provides scholarships, grants, and awards to advance the science and the practice of psychology. Since 2000, the Foundation has dedicated part of its fundraising efforts and granting opportunities to using psychology's unique problem-solving perspective to better understand and prevent violence and prejudice to create a safer, more humane world. The program seeks:

- To encourage the transfer of psychological science with regard to violence, its prevention, and intervention strategies to programmatic applications within the community.
- To support the implementation of innovative community programs aimed at preventing violence.
- Special consideration will be given to programs with a strong foundation in violence prevention and intervention research and those that have, or show promise for broad-based community support.

Up to \$20,000 will be available for research-based programs in violence prevention and intervention. Applications are due **June 1, 2008**. Submissions must be electronic.

<http://www.apa.org/apf/violence.html>

Nanotechnology Undergraduate Education in Engineering

One nanometer (one billionth of a meter) is a magical point on the dimensional scale. Nanostructures are at the confluence of the smallest of human-made devices and the largest molecules of living systems known today. Nanoscale science and engineering here refer to the fundamental understanding and resulting technological advances arising from the exploitation of new physical, chemical, and biological properties of systems that are intermediate in size, between isolated atoms and molecules and bulk materials, where the transitional properties between the two limits can be controlled. During the last few years, novel structures, phenomena, and processes have been observed at the nanoscale (from a fraction of a nanometer to about 100 nm) and new experimental, theoretical, and simulation tools have been developed for investigating them. These advances provide exciting opportunities for scientific and technological developments in nanoparticles, nanostructure materials, nanodevices, and systems.



Nanotechnology is the creation and utilization of functional materials, devices, and systems with novel properties and functions that are achieved through the control and restructuring of matter at the atomic, molecular and macromolecular levels. A revolution has begun in science, engineering, and technology based on the ability to organize, characterize, and manipulate matter systematically at the nanoscale. Far-reaching outcomes for the 21st century are envisioned in both scientific knowledge and a wide range of technologies in most industries, healthcare, conservation of materials and energy, biology, environment, and education. Fundamental research in nanoscale science and engineering (NSE) underpins innovation in critical areas ranging from manufacturing to medicine.

NSE has technological, economic, environmental, social, and ethical dimensions that may change the world in which we live. Increased understanding and appreciation of the potential for nanoscale science and engineering will be needed to create an informed citizenry and a competitive workforce.

The Nanotechnology Undergraduate Education (NUE) in Engineering program aims to integrate nanoscale science, engineering, and technology into the undergraduate engineering curricula. The NUE program provides funding for projects that will address the educational challenges of these emerging fields and generate practical ways of introducing nanotechnology into undergraduate engineering education with a focus on devices and systems and/or on social, economic, and ethical issues relevant to nanotechnology. Given the worldwide expansion of research and education in nanoscale science and engineering, international collaborations that advance underlying nanoscale science and engineering education goals and strengthen U.S. activities are encouraged.

Deadline: May 14, 2008

http://www.nsf.gov/pubs/2008/nsf08544/nsf08544.htm?govDel=USNSF_25

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 (BD) Activity, and the Alliances for Graduate Education and the Professoriate (AGEP) program.

This portfolio 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.

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 doctoral programs at eligible alliance sites.

Alliances for Graduate Education and the Professoriate (AGEP) furthers the graduate education of underrepresented students through the doctorate level, preparing them for fulfilling opportunities and productive careers as STEM faculty and research professionals. AGEP also supports the transformation of institutional culture to attract and retain STEM doctoral students into the professorate. The LSAMP program also supports education research projects focused on STEM baccalaureate degree attainment.

Deadline: May 30th, 2008

http://www.nsf.gov/pubs/2008/nsf08545/nsf08545.htm?govDel=USNSF_25

Course, Curriculum, and Laboratory Improvement



The Course, Curriculum, and Laboratory Improvement (CCLI) program seeks to improve the quality of science, technology, engineering, and mathematics (STEM) education for all undergraduate students. The program supports efforts to create, adapt, and disseminate new learning materials and teaching strategies, develop faculty expertise, implement educational innovations, assess learning and evaluate innovations, and conduct research on STEM teaching and learning. The program supports three types of projects representing three different phases of development, ranging from small, exploratory investigations to large, comprehensive projects.

Deadline: May 20, 2008

http://www.nsf.gov/pubs/2008/nsf08546/nsf08546.htm?govDel=USNSF_25

Informal Science Education

The National Science Foundation is charged with promoting the vitality of the nation's science, technology, engineering and mathematics (STEM) research and education enterprises. As part of this mission, the Directorate for Education and Human Resources (EHR) has primary responsibility for providing national and research-based leadership in STEM. EHR promotes four goals in fulfilling this responsibility:



1. To prepare the next generation of STEM professionals and attract more U.S. citizens and permanent residents to these fields.
2. Increase the technological and scientific literacy of all U.S. citizens and residents so that they can participate responsibly in an increasingly scientific and technological society and acquire STEM knowledge that is appropriate to the development of workforce skills and life-long career opportunities.
3. To broaden participation of all groups and increase their achievement in STEM.
4. To attend to critical workforce needs requiring significant mathematics and science skills and knowledge, by attracting new people to these STEM fields and by providing support for the development of the current workforce.

To reach these goals, EHR sponsors programs in the Divisions of Research on Learning in Formal and Informal Settings (DRL), Undergraduate Education (DUE), Graduate Education (DGE), and Human Resource Development (HRD).

Deadline: March 20, 2008

http://www.nsf.gov/pubs/2008/nsf08547/nsf08547.htm?govDel=USNSF_25

Mapping Florida Communities: An Introduction to GIS and Community Analysis

Participants will learn to use ArcGIS 9.2 to do the following:

- Creating thematic maps - Participants will learn how to easily create thematic maps of their own data and display spatial trends in information.
- Address Mapping (coding) – Participants will learn to map addresses of their clients, their projects, or incidents.
- Download and Map Census and American Community Survey Data - Participants will learn to extract and map current Census data such as poverty, race, language, population, transportation, education and workforce characteristics.

This workshop is customized for each city in which it is taught.

- Audience: Beginners, anyone interested in mapping their community
- Registration Fee: \$495 (Credit Cards, Checks, Purchase Orders Accepted)

March 27 and 28, 2008

8:30 am – 4:30 pm (One day workshops)

Kovens Conference Center

Florida International University

3000 N.E. 151st Street North

Miami, FL 33181

April 3, 2008

New Horizons

7020 A.C. Skinner Pkwy STE 180

Jacksonville, FL 32256

April 3 and 4, 2008

New Horizons
1221 Lee Road
Orlando, FL 32810

April 10 and 11, 2008

Tallahassee Community College
444 Appleyard Drive
Economic & Workforce Development
(EWD) Building #38 - Room 219
Tallahassee, FL 32304

Innovations in Engineering Education, Curriculum, and Infrastructure

The Innovations in Engineering Education, Curriculum, and Infrastructure program supports research which addresses three basic issues related to engineering education:



1. ***Innovations in Teaching and Learning*** - how students best learn the ideas, principles, and practices to become creative and innovative engineers, and how this learning is measured;
2. ***Strategic Supply-Chain Partnerships for Engineering and Technology Programs*** - research that helps the community understand how to better attract a more talented and diverse student body, in particular U.S. citizens and permanent residents, to all levels of engineering study. This would also include research to understand how to increase student interest in engineering by leveraging partnerships among engineering schools, school districts and exemplary non-profit organizations to recruit and retain engineering students.
3. ***Insights into the Business of Engineering Education*** - this program will support projects to investigate potential models for the evaluation of and assessment of how successful teaching, advising, and mentoring leads to improved retention and graduation, and ultimately, to a sound business model for engineering education.

Two types of awards will be supported: Exploratory Projects (32-40 grants are anticipated) and Expansion Projects (approximately 8-10 grants are anticipated). The Expansion Projects will only be available for area (1) Innovations in Teaching and Learning. Funding for Exploratory Projects will be available in areas (2) and (3) only.

The total anticipated funding in FY08 for projects associated with this announcement is \$9M. The following support will be provided: Exploratory Projects – funding up to a total of \$100K for 1 year and Expansion Projects – funding up to a total of \$500K for 2-3 years. Exploratory Projects involving multiple universities, however, can apply for one year grants up to \$150K.

Applications are due **APRIL 30, 2008**.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf08542

