

Funding Opportunities Bulletin

March 2006

Compiled by KUCR Proposal Services as a Resource
for Kansas University Researchers

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BUSINESS

Value of the Industrial Hygiene Profession (RFP)

American Industrial Hygiene Association

Deadline: **March 31, 2006**

On behalf of the American Industrial Hygiene Association (AIHA) Board of Directors, the association's Value of the Profession Task Force is seeking responses to a request for proposal from academic institutions that are interested in helping AIHA quantify the value that the industrial hygiene and occupational health profession brings to business. Given the strong business focus of the research, we would like to encourage faculty in public health or related areas to consider partnering with business school faculty to submit a joint proposal.

For more information: <http://www.aiha.org/1documents/ValueoftheProfessionRFP.pdf> (PDF file).

EDUCATION

See also listings under FINE ARTS, HUMANITIES, and MULTIPLE DISCIPLINES

Personnel Development to Improve Services & Results for Children with Disabilities— Principal Leadership Professional Dev. Center to Support School Improvement to Ensure Access to, & Participation & Progress in the General Education Curriculum in the LRE (CFDA No. 84.325P)

U.S. Department of Education

Deadline: **March 24, 2006**

The purpose of the PD Center is to support principals in their efforts to implement unified school improvement initiatives that are designed to ensure students with disabilities have access to, and participate and progress in the general education curriculum in the least restrictive environment. The PD Center must:

- Assist a cadre of principals in the development, implementation, and continuous improvement of school improvement efforts using evidence-based practices to ensure that students with disabilities have access to, and participate and progress in the general education curriculum in the least restrictive environment;
- Support networks of principals engaged in school improvement efforts that include students with disabilities;
- Create partnerships among principal professional associations, school and university personnel, and business leaders to promote and support principal leadership for school improvement and inclusion of students with disabilities across the Nation; and
- Use existing principal professional organization networks to inform the PD Center's activities and serve as dissemination vehicles.

The Department of Education anticipates making a single award of up to \$285,000/year for a project period of up to 5 years.

For more information: <http://www.ed.gov/programs/osepprep/applicant.html#84325p>.

Early Childhood Educator Professional Development Program

U.S. Department of Education

Deadline: **April 7, 2006**

The purpose of the ECEPD program is to enhance the school readiness of young children, particularly disadvantaged young children, and to prevent them from encountering difficulties once they enter school, by improving the knowledge and skills of early childhood educators who work in communities that have high concentrations of children living in poverty. Projects funded under the ECEPD program provide high-quality, sustained, and intensive professional development for these early childhood educators in how to provide developmentally appropriate school-readiness services for preschool-age children that are based on the best available research on early childhood pedagogy and on child development and learning. For these grants, increased emphasis is being placed on the quality of program evaluations for the proposed projects. The Department of Education anticipates making 3-6 awards of \$2,400,000 - \$4,800,000 for up to 36 months. Eligible applicants are partnerships of entities, including institutions of higher education, which have not received funds from an ECEPD grant (see the full solicitation for complete details).

For more information: <http://www.ed.gov/programs/eceducator/applicant.html>.

National Disability Performance Indicators and Data

National Council on Disability (NCD)

Deadline: **April 17, 2006**

This solicitation is for proposals that addresses NCD's primary interest in undertaking this research is to ensure that the Federal Government is in a position to effectively monitor and eventually evaluate programs and supports for people with disabilities, but not duplicate other work. A secondary interest is that the Federal Government contribute to the improvement of

performance reporting for its major social programs for Americans with disabilities and their families. One of the chief mechanisms has been through the use of indicator systems. Few of this nation's national indicator systems, however, are populated with meaningful (outcome) data related to people with disabilities. Additionally, the majority of indicator systems are not holistic addressing the whole of people's lives but, rather, are domain-specific (e.g., health). In an effort to identify valid federal indicators and data and to describe the status of the U.S. population of Americans with disabilities, the National Council on Disability will conduct research that results in a product entitled Americans with Disabilities: Key Indicators of Quality Lives. NCD intends to make one award under this solicitation for a total of \$150,000 to \$175,000.

For more information: http://www.ncd.gov/research_opportunity/research_opp.htm.

Training Program for Federal TRIO Programs

U.S. Department of Education

Deadline: **April 21, 2006**

The Training Program for Federal TRIO Programs provides funding to enhance the skills and expertise of project directors and staff employed in the Federal TRIO Programs. Training projects may include conferences, seminars, internships, workshops, or publication of manuals. Training topics are based on priorities established by the Secretary of Education and announced in the Federal Register notice for application.

For more information: <http://www.ed.gov/programs/triotrain/applicant.html>.

Improving Educational Outcomes for Students with Disabilities

National Council on Disability (NCD)

Deadline: **May 1, 2006**

As a follow-up to its 2004 paper Improving Educational Outcomes for Students with Disabilities, NCD will conduct a formal evaluation of the implementation of both the No Child Left Behind Act (NCLBA) and the Individuals with Disabilities Education Act (IDEA). Thanks to the Individuals with Disabilities Education Act (IDEA) and its push for increased access to education for students with disabilities, and the No Child Left Behind Act (NCLBA), with its push for improved student outcomes, educators across the U.S. are reexamining their practices to find ways to close the achievement gaps between groups of students. Students with disabilities are a focus of this attention, as schools and states labor to improve their academic outcomes. Policymakers are studying both the reauthorization of IDEA and the ongoing implementation of NCLBA to determine the most effective means for serving students with disabilities. At the beginning of fiscal year 2006, ample time has passed since passage of NCLBA and the reauthorization of IDEA for this research to be undertaken.

For more information: http://www.ncd.gov/resources_researchopps.htm (scroll down to "Improving Educational Outcomes for Students with Disabilities").

ENGINEERING & COMPUTER SCIENCE

See also listings under EDUCATION, and MULTIPLE DISCIPLINES

Dynamical Systems Program

Division of Civil and Mechanical Systems

National Science Foundation

Deadlines: Full Proposal Windows: February 1, 2006 - **March 1, 2006**

September 1, 2006 - October 1, 2006

The Dynamical Systems program supports fundamental advances in the understanding, design and operation of dynamic systems, including acoustics, vibrational response, and kinematic relationships; active noise and vibration control technologies; modeling and simulation of nonlinear time-varying and distributed systems.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13574.

Broadening Participation in Computing (BPC)

National Science Foundation

Deadlines: Letter of Intent (required for Supplements only): **April 12, 2006**; August 9, 2006; December 13, 2006; April 11, 2007; August 8, 2007; December 12, 2007

Full Proposal: **May 17, 2006**; May 16, 2007

The Broadening Participation in Computing (BPC) program aims to significantly increase the number of U.S. citizens and permanent residents receiving post secondary degrees in the computing disciplines. Initially, its emphasis will be 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 identifying and supporting members of the targeted groups who want to pursue academic careers in computing. While these efforts focus on underrepresented groups, it is expected that the resulting types of interventions will improve research and education opportunities for all students in computing.

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 targeted communities is strongly encouraged.

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.

Supplements. Supplements to existing CISE grants will be made in order to engage more members of the computing research community in significant BPC efforts. These supplements will increase target community participation in specific research areas.

For more information: <http://www.nsf.gov/pubs/2006/nsf06540/nsf06540.htm>.

Graduate Research Supplements (GRS) to Current ECS and BES Awards to Broaden Participation of Underrepresented Students

National Science Foundation

Deadline: **May 1, 2006**

The long-term goal of the Graduate Research Supplements (GRS) is to increase the number of people from underrepresented groups in advanced academic and professional careers. The establishment of GRS reflects the continuing effort by ECS and BES to promote increased participation of underrepresented students in all fields of electrical engineering and biomedical/biochemical/environmental engineering research. A request for funding of a GRS should be made by the Principal Investigator of an existing ECS or BES award. Only one new graduate student from underrepresented groups qualifying for a GRS may be supported under each research grant. GRS candidates must be United States citizens or nationals, or permanent resident aliens of the United States. The graduate students must be enrolled for the Ph.D. degree in electrical engineering or biomedical/biochemical/environmental engineering. Renewal for a second or third year supplement requires a report on the progress of the student towards the Ph.D. degree.

For more information: <http://www.nsf.gov/pubs/2006/nsf06532/nsf06532.jsp>.

University Crystalline Silicon Photovoltaics Research and Development

U.S. Department of Energy

Deadline: **May 30, 2006**

The Department of Energy solicits applications for advanced and applied research and development, education and collaboration in crystalline silicon PV cell and module technology

through this University Photovoltaic Crystalline Silicon R&D Funding Opportunity Announcement (FOA). A single accredited college or university will be selected to conduct research and development activities to achieve the following:

- Advance crystalline silicon PV cell and module technology and manufacturing processes that address the key barriers identified above;
- Expand opportunities to educate undergraduate and graduate students in PV systems and manufacturing R&D; and
- Address ways to accelerate transferring PV technologies to industry for commercial production utilizing a model that appropriately protects proprietary interests for the mutual benefit of the selected university/college and the U.S. PV industry as a whole. This research is intended to foster measurable improvements over the current state of crystalline silicon PV cell and module technology while providing an integrated platform for education and collaboration with the PV industry as a whole. An education institution is generally perceived to be an unbiased source for the distribution of information and enhanced technology transfer.

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/038FFEB20999467385257106007AB52B?OpenDocument>.

Engineering Education Programs

Division of Engineering Education and Centers

National Science Foundation

Deadline: **August 15, 2006**

Research is sought that contributes to our basic understanding of how students learn engineering. We are looking for significant breakthroughs in understanding so that our undergraduate and graduate engineering education can be transformed to meet the needs of the changing economy and society. We are interested in research that addresses: the aims and objectives of engineering education, the content and organization of the curriculum, how students learn problem solving, creativity and design, new methods for assessment and evaluation of how students learn engineering, and research that helps us understand how to attract a more talented and diverse student body to all levels of engineering study. It is expected that successful proposals will most likely be comprised of multidisciplinary teams of engineers and other fields that bring expertise pertinent to learning research.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13374.

Process and Reaction Engineering (PRE)

Division of Chemical & Transport Systems

National Science Foundation

Deadlines: **September 15** and March 1, annually

This program supports fundamental and applied research on: 1) Rates and mechanisms of important classes of catalyzed and uncatalyzed chemical reactions as they relate to the design,

production, and application of catalysts, chemical processes, and specialized materials; 2) Chemical phenomena occurring at or near solid surfaces and interfaces; 3) Electrochemical and photochemical processes of engineering significance or with commercial potential; 4) Design and optimization of complex chemical processes; 5) Dynamic modeling and control of process systems and individual process units; 6) Reactive processing of polymers, ceramics, and thin films; and 7) Interactions between chemical reactions and transport processes in reactive systems, and the use of this information in the design of complex chemical reactors.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13361.

Engineering Design

Division of Design and Manufacturing Innovation

National Science Foundation

Deadlines: Full Proposal Windows: September 1, 2006 – **October 1, 2006**

Basic research in Engineering Design is needed to advance our understanding of the fundamentals of the product realization process. One of the challenges to the research community is to create the necessary connections between the principles of design theory and the practice of design across the broad spectrum of engineered products through the creation of new tools and methods. The focus of the program is on a holistic view of design, where the total system, life-cycle context recognizes the need for advanced understanding of the identification and definition of preferences, analysis of alternatives, effective accommodation of uncertainty in decision-making, and the relationship between data and knowledge in a digitally-supported process. Another challenge is to continue developing the basic pillars supporting design theory, creating the framework for comprehensive models starting with a clear, concise, and full statement of the purpose of the system, synthesizing and integrating across the expertise necessary for the conceptual design phase, and establishing the methods and measures by which the models can be validated. Research is also necessary in the realm of "design for" capabilities, where science and engineering are brought to bear on the specific task of developing tools appropriate to a particular domain of application in design space.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13340.

Materials Processing and Manufacturing (MPM)

Division of Design and Manufacturing Innovation

National Science Foundation

Deadline: Full Proposal Window: September 1, 2006 – **October 1, 2006**

Novel processing methodologies or the processing of new materials can open up opportunities for new product development, for research leading to next-generation machines, for improvements in product performance and cost, and for minimizing the environmental impact through the complete life-cycle. The MPM Program advances the fundamental knowledge base that is needed for the realization of desired product attributes through the application of the systematic integration of processing - material- performance relationships. It supports analytical

and experimental research that leads to the generation of such fundamental knowledge. MPM also supports research activities that incorporate connectivity of this materials processing knowledge to sensing systems for process control.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13344.

NanoManufacturing

Division of Design and Manufacturing Innovation

National Science Foundation

Deadline: Full Proposal Window: September 1, 2006 – **October 1, 2006**

The NanoManufacturing Program was established in 2001 to promote fundamental research and education at the nanoscale, and to transfer developments in nanoscience and nanotechnology discoveries from the laboratory to industrial application with prominent societal impacts. The program emphasizes scaleup of nanotechnology for high rate production, reliability, robustness, yield, efficiency and cost issues for manufacturing products and services. NanoManufacturing capitalizes on the special material properties and processing capabilities at the nanoscale, and promotes integration of nanostructures to functional micro devices and meso/macroscale architectures and systems, as well as the interfacing issues across dimensional scales. The program covers interdisciplinary research and promotes multi-functionality across all energetic domains, including mechanical, thermal, fluidic, chemical, biochemical, electromagnetic, optical etc. The focus of NanoManufacturing is in a systems approach, encompassing nanoscale materials and structures, fabrication and integration processes, production equipment and characterization instrumentation, theory/modeling/simulation and control tools, biomimetic design and integration of multiscale functional systems, and industrial application. The program places special emphasis in NanoManufacturing education and training of the workforce, involvement of socio-economic sciences, addressing the health, safety and environmental implications, development of manufacturing infrastructure, as well as outreach and synergy of the academic, industrial, federal and international community.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13347.

Sensor Technologies for Civil and Mechanical Systems (STCMS)

Division of Civil and Mechanical Systems

National Science Foundation

Deadlines: Full Proposal Window: September 1, 2006 - **October 1, 2006**

The Sensor Technologies for Civil and Mechanical Systems (STCMS) program element supports research on acquiring and using information about civil and mechanical systems to improve their safety, reliability, cost, and performance. This includes research that extends the knowledge base for development of advanced sensors for solution of inverse problems related to system identification and characterization, and for implementation of real time adaptive system performance capabilities that use the sensed information. Examples of research areas to be

supported include innovative developments in sensor technologies, analytical strategies for CMS monitoring, and active noise and vibration control technologies.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13349.

Electronics, Photonics and Device Technologies (EPDT) Program

Division of Electrical & Communications Systems

National Science Foundation

Deadlines: Full Proposal Windows: September 7 - **October 7**, annually

January 7 - February 7, annually

The Electronics, Photonics and Device Technologies (EPDT) program seeks to improve the fundamental understanding of devices and components based on the principles of electronics, photonics, magnetics, electro-optics, electromagnetics, electromechanics, and related physical phenomena. The program invites proposals for research leading to the development of high performance micro and nanoscale devices and components, and to advanced methods for design, modeling and simulation of devices and components that define new and improved capabilities and applications. Efficient and cost-effective experimental techniques for processing, fabrication and manufacturing are also of interest. In addition, the program seeks proposals to advance the frontiers of spin electronics, organic electronic and photonic devices and to address new approaches used in integrated circuits, interconnects and packaging. The EPDT program further seeks proposals in related topics on quantum and molecular engineering and quantum communication and computing. The program encourages new ideas and alternative strategies and solutions to the challenges identified in the International Technology Roadmap for Semiconductors (ITRS) to support continued advances in silicon nanoelectronics and beyond. Developments in adaptive and reconfigurable devices and low-power/low-noise electronics are further encouraged for novel network architectures and advanced communications systems. The program seeks innovative ideas for novel MEMS/NEMS, sensors and actuators for applications ranging from manufacturing, defense, homeland security, biomedicine and biotechnology. New ideas for optical storage and optical communication technologies are also encouraged. Revolutionary electromagnetic materials and device solutions are needed for telecommunications, telemedicine and other wireless applications involving RF integrated circuits and smart and reconfigurable antennas. Clear and detailed intellectual merit and broader impacts of the proposed research must be presented in all proposals.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13379.

FINE ARTS

Arts in Education Model Development and Dissemination Grants Program

U.S. Department of Education

Deadline: **April 7, 2006**

The program supports the development, documentation, evaluation, and dissemination of innovative, cohesive models that demonstrate effectiveness in:

- Integrating and strengthening arts into the core elementary and middle school curricula.
- Strengthening arts instruction in those grades.
- Improving students' academic performance, including their skills in creating, performing, and responding to the arts.

Grants are designed to enable local education agencies and organizations with art expertise to further create and develop materials for the replication or adaptation of current comprehensive approaches for integrating a range of arts disciplines--such as music, dance, theater, and visual arts, including folk arts--into the elementary and middle school curricula.

For more information: <http://www.ed.gov/programs/artsedmodel/index.html>.

Mexico Transnational Project

Mid-American Arts Alliance (M-AAA)

Deadline: Applications accepted anytime, but early submission is encouraged

Thanks to generous support from the National Endowment for the Arts, M-AAA has funding available for presenters in the six states of Arkansas, Kansas, Missouri, Nebraska, Oklahoma, and Texas to support performances by artists from Mexico. This exciting opportunity is available to all presenters in the region on a first-come, first-served basis. Subsidy will be up to 50% of the artist contract fee. Project requirements will be a public performance, an educational activity, and outreach to an underserved population. We encourage presenters to work with their Mexican and Mexican-American communities in order to make the programs even more meaningful for their local and regional audiences.

For more information: http://www.maaa.org/spec_proj/special.html.

Regional Touring Program

Mid-American Arts Alliance (M-AAA)

Deadline: Applications accepted anytime, but early submission is encouraged

If your organization is planning to present a performing artist that resides outside of your home state, you are eligible to apply for funds through the M-AAA Regional Touring Program. Qualifying applications must include an educational activity in conjunction with the public performance by the artist, and the applicant organization must perform an outreach activity to include underserved audiences in the performance. Performances and associated activities must take place between July 1, 2006 and June 30, 2007. Only three applications are permitted per organization.

For more information: <http://www.maaa.org/rtp/guidelines.html>.

HUMANITIES

See also listings under INTERNATIONAL AREA STUDIES, SOCIAL SCIENCES, and MULTIPLE DISCIPLINES

Congressional Academies for Students of American History and Civics

U.S. Department of Education

Deadline: **April 7, 2006**

The Congressional Academies for Students of American History and Civics (Congressional Academies) program supports the establishment of academies for students to develop a broader and deeper understanding of American History and Civics. Institutions of higher education (IHEs), museums, libraries, and other public and private agencies, organizations, and institutions (including for-profit organizations) or a consortium of such agencies, organizations, and institutions may apply. Applicants are required to submit in their applications evidence of their organization's demonstrated expertise in historical methodology or the teaching of history.

For more information: <http://www.ed.gov/programs/ahc/applicant.html>.

Fellowships

National Endowment for the Humanities

Deadline: **May 1, 2006**

National Endowment for the Humanities Fellowships support individuals pursuing advanced research in the humanities that contributes to scholarly knowledge or to the general public's understanding of the humanities. Recipients usually produce scholarly articles, monographs on specialized subjects, books on broad topics, archaeological site reports, translations, editions, or other scholarly tools. Fellowships support full-time work on a humanities project for a period of six to twelve months. Applicants may be faculty or staff members of colleges, universities, or primary or secondary schools, or they may be independent scholars or writers. Fellowships cover periods lasting from six to twelve months. An outright award of \$24,000 supports a six- to eight-month grant period; an outright award of \$40,000 supports a nine- to twelve-month grant period. Applicants should request tenure periods that suit their schedules and the needs of their projects. The earliest that recipients may begin tenure is January 1, 2007; the latest date is July 1, 2008. Online applications will be accepted between March 1 and May 1, 2006.

For more information: <http://www.neh.gov/grants/guidelines/fellowships.html>.

Electronic Records Projects

National Historical Publications and Records Commission (NHPRC)

National Archives and Records Administration

Deadline: **June 1, 2006**

The Commission seeks ways to ensure that records created today will be usable with tomorrow's technology. As society moves recordkeeping from paper to electronic records, it is essential that

electronic records retain their authenticity and are preserved. The NHPRC supports efforts by archivists and other records managers to meet the challenges of a proliferation of electronic records. The NHPRC especially welcomes projects that build institutional capacity, promote professional development and education in the field, and help create and support consortia and other cooperative programs. Eligible Activities Include: Projects to establish sustainable electronic records programs within archival institutions; Projects to establish and expand electronic records programs by cooperative efforts; Electronic records-related professional education; Conferences, consultancies, and similar efforts; Research, development, and analysis projects; Projects that attempt to establish policies, best practices, and tools for long-term preservation of, and access to, electronic records. Grants for Electronic Records Projects cannot be used to digitize records originally produced in analog media, including paper, microfilm, sound recordings, or motion pictures. Awards normally are for one, two, or three years and have ranged between \$50,000-\$300,000, depending on the nature of the project.

For more information: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=7400>.

INTERNATIONAL AREA STUDIES

Fellowship Program for Advanced Social Science Research on Japan

National Endowment for the Humanities

Deadline: **May 1, 2006**

The Fellowship Program for Advanced Social Science Research on Japan is a joint activity of the Japan-US Friendship Commission and the National Endowment for the Humanities. It supports research on the modern Japanese political economy, international relations and society, and on US-Japan relations. The program also encourages innovative research that puts these subjects in wider regional and global contexts and is comparative and contemporary in nature. Research should contribute to scholarly knowledge or to the general public's understanding of issues of concern to Japan and the United States. Disciplines include: anthropology, economics, geography, history, international relations, linguistics, political science, psychology, public administration, and sociology. Fellowships cover an uninterrupted period lasting from six to twelve months. An outright award of \$24,000 supports six to eight months of full-time work; an outright award of \$40,000 supports nine to twelve months of full-time work. The earliest that fellows may begin work on their project is January 1, 2007; the latest date is July 1, 2008. Online applications will be accepted between March 1 and May 1, 2006.

For more information: <http://www.neh.gov/grants/guidelines/fellowships-japan.html>.

MEDICINE & LIFE SCIENCES

See also listings under BUSINESS, EDUCATION, SOCIAL SCIENCES, and MULTIPLE DISCIPLINES

Antimicrobial Resistance

Centers for Disease Control and Prevention

Deadlines: Letter of Intent: **March 2, 2006**

Full Proposal: April 3, 2006

Antimicrobial resistance continues to worsen while few new, and fewer still, novel, antimicrobials are presently in the drug development pipeline. With the need for preventing antimicrobial resistance growing ever greater, the full spectrum of prevention measures must be utilized including not only reducing unnecessary antimicrobial use but also preventing the transmission of resistance. New methods to prevent transmission of antimicrobial resistant pathogens, as well as greater understanding of the efficacy and relative effectiveness of existing transmission prevention methods, are needed. In addition, new understanding of the epidemiology of antimicrobial resistance transmission is needed with identification of "weak links" in the chain of transmission where new or existing control measures could be best employed. The purpose of this Request for Applications (RFA) is two fold: The development of new methods to prevent transmission of Antimicrobial Resistant (AR) pathogens (R01) and reducing Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA) Infection in households (U01).

For more information: <http://www.cdc.gov/od/pgo/funding/CI06-003.htm>.

Ovarian Cancer Research Program (OCRCP) Idea Development Award

Congressionally Directed Medical Research Programs (CDMRP)

U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadlines: Preliminary Proposal: **March 7, 2006**

Full Proposal: Full proposal submission will be by invitation only

The goal of the FY06 OCRCP is to eliminate ovarian cancer by stimulating and supporting innovative research in ovarian cancer. The OCRCP seeks to attract independent investigators to initiate research focused on ovarian cancer. Within this context, the key initiatives of this announcement are to support innovative technology, hypotheses, or experimental results that will drive the field forward. FY06 OCRCP is focusing on only the following three research areas of emphasis as applied to either epithelial ovarian carcinoma or primary peritoneal carcinoma. Proposals on ovarian cancer prevention that fit within the context of these areas of emphasis will be considered: 1. Etiology/Tumor Biology; 2. Preclinical Development of Targeted Therapeutics (Excluding Clinical Trials); 3. Early Detection/Diagnosis. The intent of the OCRCP Idea Development Award is to provide a catalyst for challenging or improving current approaches to prevention, detection, diagnosis, or treatment of ovarian cancer. Idea Development Awards must address etiology/tumor biology, preclinical development of targeted therapies (excluding clinical trials), or early detection or diagnosis of ovarian cancer. Investigators interested in applying for the Idea Development Award must submit a preproposal by 5:00 p.m. Eastern time, March 7, 2006.

For more information:

https://cdmrp.org/Program_Announcements_and_Forms/index.cfm?prg=OCRCP&prg_fy=2006
(click on "Idea Development Award").

Intervention Research Grants to Promote the Health of People with Disabilities

Centers for Disease Control and Prevention

Deadlines: Letter of Intent: **March 13, 2006**

Full Proposal: April 12, 2006

The purpose of this research program is to develop, implement, and measure the effectiveness of interventions that promote the health and wellness of people with disabilities and prevent secondary conditions across the lifespan. The work should clearly define the precise targeted populations for the intervention program, convey the capacity to identify, reach, enroll, and follow this population; and measure and evaluate the effectiveness of the intervention(s). CDC anticipates making 5 to 7 awards. Applicants may request a project period of up to 3 years, for up to \$325,000 per budget year. The approximate total project period funded amount is \$975,000 per award.

For more information: <http://www.cdc.gov/od/pgo/funding/DD06-004.htm>.

Clinical Proteomic Technology Assessment for Cancer

National Cancer Institute

National Institutes of Health

Deadlines: Letter of Intent: **March 21, 2006**

Full Proposal: April 21, 2006

The NCI solicits applications from investigators interested in participation in a collaborative network of up to five Clinical Proteomic Technology Assessment for Cancer (CPTAC) teams to be established under this funding opportunity. Each CPTAC team will consist of multidisciplinary scientists focused on enhancing proteomic measurement capabilities for clinical cancer research. The emphasis of this initiative is on mass spectrometry (MS) and affinity capture proteomic analysis platforms. The goal of this funding opportunity is to improve the ability to rigorously and reproducibly detect, identify, and quantify proteins and peptides of interest in biological specimens by exploring and improving proteomics technologies and by establishing broadly available research reference resources. Specifically, this program is expected to advance the optimized measurements of proteins and peptides using MS and affinity capture proteomic analysis approaches and to establish a repository of well characterized and comprehensively annotated clinical reference materials along with respective proteomics data sets for these specimens. Multidisciplinary teams will participate in the design of interlaboratory studies aimed at improving reproducibility and comparability of clinical proteomic data. This initiative is focused on technology improvement and will not support research on fundamental cellular and molecular mechanisms of cancer or on biomarker discovery and validation. The NCI intends to commit approximately \$35.5 M in fiscal years 2006-2010 (approximately \$8.5 M in fiscal year 2006) to fund up to five 5-year awards. An individual can be the Principal Investigator (PI) on only one application submitted under this announcement. However, the PI or other investigators on one application may be listed as participants in multiple CPTAC team applications.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-07-012.html>.

Genome-Wide Association Studies to Identify Genetic Components that Relate to Heart, Lung, and Blood Disorders

National Institutes of Health

Deadlines: Letter of Intent: **March 21, 2006**

Full Proposal: April 20, 2006

The purpose of this RFA is to support genome-wide association studies to identify genetic components related to heart, lung, and blood disorders and their risk factors using existing population, family and clinical studies. The data generated by this effort will contribute to our knowledge of the underlying biochemical pathways to disease, the interaction of genetic components with each other and with the environment. Results have the potential to identify novel predictors of disease, new therapeutic interventions, prevention strategies and treatments, as well as predictors of response to treatment. This funding opportunity will use the NIH R01 research grant award mechanism. The total amount to be awarded is \$ 20 million over 3 years. The anticipated number of awards is 4-6.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-06-012.html>.

Ovarian Cancer Research Program (OCRP) Concept Award

Congressionally Directed Medical Research Programs (CDMRP)

U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadline: **March 21, 2006**

The overall goal of the FY06 OCRP is to eliminate ovarian cancer by stimulating and supporting innovative research in ovarian cancer. The OCRP seeks to attract independent investigators, including those from Historically Black Colleges and Universities/Minority Institutions (HBCU/MI), to initiate research focused on ovarian cancer. Within this context, the key initiatives of this announcement are to support innovative technology, hypotheses, or experimental results that will drive the field forward. FY06 OCRP is focusing on only the following three research areas of emphasis as applied to either epithelial ovarian carcinoma or primary peritoneal carcinoma. Proposals on ovarian cancer prevention that fit within the context of these areas of emphasis will be considered: 1. Etiology/Tumor Biology; 2. Preclinical Development of Targeted Therapeutics (Excluding Clinical Trials); 3. Early Detection/Diagnosis. The intent of the OCRP Concept Award is to spark new ideas and encourage the exploration of innovative concepts or theories in ovarian cancer. The proposed research should provide a catalyst to challenge or expand current thinking and approaches in ovarian cancer research. These awards provide investigators with the opportunity to pursue serendipitous observations and underexplored hypotheses.

For more information:

[https://cdmrp.org/Program Announcements and Forms/index.cfm?prg=OCRP&prg_fy=2006](https://cdmrp.org/Program%20Announcements%20and%20Forms/index.cfm?prg=OCRP&prg_fy=2006)
(click on Concept Awards).

Prostate Cancer Research Program (PCRP) Exploration–Hypothesis Development Award (EHD)

Congressionally Directed Medical Research Programs (CDMRP)
U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadlines: Letter of Intent: **March 21, 2006**
Full Proposal: April 18, 2006

The overall goal of the FY06 PCRP is to find and fund innovative, high impact research that seeks to (1) prevent prostate cancer, (2) detect prostate cancer, (3) cure prostate cancer, and (4) improve the quality of life for individuals living with prostate cancer and for their families. Funding for Exploration – Hypothesis Development Awards can be requested for a maximum of \$75,000 for direct costs over the performance period. The performance period can be requested for up to 18 months.

For more information:

https://cdmrp.org/Program_Announcements_and_Forms/index.cfm?prg=PCRP&prg_fy=2006
(click on “Exploration: Hypothesis Development Award”).

Prostate Cancer Research Program (PCRP) Health Disparities Research

Congressionally Directed Medical Research Programs (CDMRP)
U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadlines: Letter of Intent: **March 21, 2006**
Full Proposal: April 18, 2006

The overall goal of the FY06 PCRP is to find and fund innovative, high impact research that seeks to (1) prevent prostate cancer, (2) detect prostate cancer, (3) cure prostate cancer, and (4) improve the quality of life for individuals living with prostate cancer and for their families. The intent of the Health Disparity Research Award is to encourage and support investigators who focus their research efforts on the disparity of prostate cancer within an affected population or community. Appropriate disparity focus areas include, but are not limited to, race and ethnicity, socioeconomic status, access to health care, insurance status, age, geography, and cultural beliefs.

For more information:

https://cdmrp.org/Program_Announcements_and_Forms/index.cfm?prg=PCRP&prg_fy=2006
(click on “Health Disparity Research Award”).

Prostate Cancer Research Program (PCRP) Health Disparity Training-Prostate Scholar Award: Postdoctoral Traineeship

Congressionally Directed Medical Research Programs (CDMRP)
U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadlines: Letter of Intent: **March 21, 2006**
Full Proposal: April 18, 2006

The overall goal of the FY06 PCRP is to find and fund innovative, high impact research that seeks to (1) prevent prostate cancer, (2) detect prostate cancer, (3) cure prostate cancer, and (4)

improve the quality of life for individuals living with prostate cancer and for their families. The intent of the Health Disparity Training – Prostate Scholar Award is to provide training opportunities focused on prostate cancer disparity for investigators in the early stages of their careers. Appropriate disparity focus areas can include, but are not limited to, race and ethnicity, socioeconomic status, access to health care, insurance status, age, geography, and cultural beliefs. These awards provide primarily salary support and require the active involvement of a mentor who is an established prostate cancer researcher from an appropriate discipline (clinical research, pathology, urology, etc.).

For more information:

https://cdmrp.org/Program_Announcements_and_Forms/index.cfm?prg=PCR&prg_fy=2006

(click on “Health Disparity Research Award”).

Prostate Cancer Research Program (PCR) Idea Development Award

Congressionally Directed Medical Research Programs (CDMRP)

U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadlines: Letter of Intent: **March 21, 2006**

Full Proposal: April 18, 2006

The overall goal of the FY06 PCR is to find and fund innovative, high impact research that seeks to (1) prevent prostate cancer, (2) detect prostate cancer, (3) cure prostate cancer, and (4) improve the quality of life for individuals living with prostate cancer and for their families. The intent of the PCR Idea Development Award is to encourage innovative, high impact approaches to prostate cancer research from prostate cancer investigators and investigators in other fields who want to move into prostate cancer research. The Idea Development Award supports innovative, high-risk/high-reward prostate cancer research.

For more information:

https://cdmrp.org/Program_Announcements_and_Forms/index.cfm?prg=PCR&prg_fy=2006

(click on “Idea Development Award”).

Prostate Cancer Research Program (PCR) New Investigator Award

Congressionally Directed Medical Research Programs (CDMRP)

U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadlines: Letter of Intent: **March 21, 2006**

Full Proposal: April 18, 2006

The overall goal of the FY06 PCR is to find and fund innovative, high impact research that seeks to (1) prevent prostate cancer, (2) detect prostate cancer, (3) cure prostate cancer, and (4) improve the quality of life for individuals living with prostate cancer and for their families. The intent of the PCR New Investigator Award is to recognize and support independent investigators in the early stages of their careers. The PCR seeks investigators who have innovative, high-impact ideas or new technologies applicable to prostate cancer research or

treatment. New investigators are defined as being within 6 years of completing their last fellowship or postdoctoral position. Applicants may not have received non-mentored research funding in excess of \$100,000 in direct costs in aggregate from extramural sources as a Principal Investigator (PI) or co-PI.

For more information:

https://cdmrp.org/Program_Announcements_and_Forms/index.cfm?prg=PCRP&prg_fy=2006
(click on “New Investigator Award”).

Terrestrial Carbon Processes Research

U.S. Department of Energy

Deadline: **March 21, 2006**

The U.S. Department of Energy (DOE) announces its interest in receiving applications for carbon cycle research that will improve the understanding of terrestrial carbon processes (TCP) and aid carbon cycle predictions related to climate change. Research to improve understanding of carbon processes includes attention to mechanisms that control net CO₂ exchange between the atmosphere and terrestrial biosphere. This includes studies of carbon metabolism and transformations involving plant and soil components of ecosystems that collectively are important for quantifying terrestrial carbon sources and sinks. The scope includes CO₂ exchange measurements (e.g., AmeriFlux), experiments on the CO₂ effects on terrestrial ecosystem carbon processes (e.g., Free-Air- CO₂-Enrichment, FACE), and research on mechanisms of soil carbon transformation, and terrestrial carbon cycle modeling and integration. TCP measurements and experiments are expected to produce spatial and temporal carbon process information for mechanistic and prognostic models. Modeling research is expected to use this information for ecosystem carbon cycle modeling, and for integrated and inverse analysis of carbon cycle behavior. In addition, TCP results are used for improving and testing carbon cycle models, and the information contributes to more comprehensive modeling approaches for predicting atmospheric CO₂ change. It is also important for proposed scientific investigations of terrestrial carbon processes to point out how the research intends to address DOE/Climate Change Program performance measures.

For more information: <http://www.science.doe.gov/grants/FAPN06-11.html>.

Neurofibromatosis Research Program (NFRP) New Investigator Award

Congressionally Directed Medical Research Programs (CDMRP)

U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadlines: Letter of Intent: **March 28, 2006**

Full Proposal: April 25, 2006

The overall goal of the FY06 NFRP is to develop effective therapies for NF1, NF2, and Schwannomatosis. Proposals to the NFRP are sought across all areas of laboratory, clinical, behavioral, and epidemiological research including all disciplines within the basic, clinical, psychosocial, behavioral, sociocultural, and environmental sciences, nursing, occupational

health, alternative therapies, public health and policy, and economics. The intent of the New Investigator Award is to help independent investigators at the early stages of their careers to become established NF and/or Schwannomatosis researchers. This award mechanism is open both to investigators with previous training or experience in NF and/or Schwannomatosis research as well as investigators who are new to those fields.

For more information:

https://cdmnp.org/Program_Announcements_and_Forms/index.cfm?prg=NFRP&prg_fy=2006
(click on “New Investigator Award”)

Neurofibromatosis Research Program (NFRP) Resource Development Award

Congressionally Directed Medical Research Programs (CDMRP)

U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadlines: Letter of Intent: **March 28, 2006**

Full Proposal: April 25, 2006

The NFRP recognizes the critical need for improved resources to advance the fields of NF and Schwannomatosis research. Consequently, the Resource Development Award has been established to support product-driven research aimed at developing tools for use by the applicant’s laboratory and the NF/Schwannomatosis research community to promote basic research on those disorders. These tools may include, but are not limited to, animal models, antibodies, cell lines, assays, and reagents. Applicants must clearly articulate how the proposed resource addresses an unmet need in NF/Schwannomatosis research. As applicable, applicants should also explain the advantages of their approach to developing the resource over standard methodologies and techniques.

For more information:

https://cdmnp.org/Program_Announcements_and_Forms/index.cfm?prg=NFRP&prg_fy=2006
(click on “Resource Development Award”)

Tuberous Sclerosis Complex Research Program (TSCRCP) Idea Development Award

Congressionally Directed Medical Research Programs (CDMRP)

U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadline: Letter of Intent: **March 28, 2006**

Full Proposal: April 25, 2006

The overall goal of the FY06 TSCRCP is to decrease the impact of tuberous sclerosis complex. Within this context, the encouragement of established scientists in the field and the attraction of new scientific expertise from other fields are essential to the tuberous sclerosis complex community. Idea Development Awards are intended to encourage innovative research directed toward improved detection, diagnosis, and/or treatment of tuberous sclerosis complex. All Idea Development Award proposals must include preliminary data relevant to tuberous sclerosis complex research and the proposed project.

For more information:

https://cdmnp.org/Program_Announcements_and_Forms/index.cfm?prg=TSCRCP&prg_fy=2006
(Click on “Idea Development Award”).

Peer Reviewed Medical Research Program (PRMRP)

Congressionally Directed Medical Research Programs (CDMRP)

U.S. Army Medical Research and Materiel Command (USAMRMC)

Deadlines: Letter of Intent: **April 10, 2006**

Full Proposal: May 9, 2006

The USAMRMC has been directed to conduct innovative research and development with specific goals and endpoints. The Defense Appropriations Act of 2006 (Public Law 109-359) provides \$50 million (M) to fund peer-reviewed medical research. As the executive agent for the PRMRP, the USAMRMC has assigned this program to the Office of Congressionally Directed Medical Research Programs (CDMRP). Based on congressional guidance published in previous fiscal years' Defense Appropriations Acts, the PRMRP was established to provide support for military health-related research of clear scientific merit. Thus, proposals submitted to the FY06 PRMRP must be scientifically meritorious and must clearly explain the military relevance of the proposed efforts.

Proposals will be assessed based on how they complement existing DOD research. The submission of a Letter of Intent (LOI) is required to facilitate this objective. See the full solicitation for complete information on areas of interest.

For more information:

https://cdmrp.org/Program_Announcements_and_Forms/index.cfm?prg=PRMRP&prg_fy=2006.

Tumor Microenvironment Network (TMEN)

National Cancer Institute

National Institutes of Health

Deadlines: Letter of Intent: **April 10, 2006**

Full Proposal: May 10, 2006

The National Cancer Institute (NCI) invites cooperative agreement and NIH intramural applications from groups of investigators interested in becoming components of the NCI Tumor Microenvironment Network (TMEN). The main objective is to delineate mechanisms of tumor-stroma interactions in human cancer and to generate a comprehensive understanding of composition of the stroma in normal tissues as well as its roles in tumor initiation, progression, and metastasis. A total of \$12.0 million/per year for 5 years will be awarded to fund up to six individual multidisciplinary Research Programs using the U54 cooperative agreement mechanism. Outside of the set-aside funds for the U54 mechanism, up to two NIH intramural Research Programs are anticipated to be funded as additional non-U54 components of the Network. NIH intramural project applications will be reviewed and scored with the U54 applications. The NIH intramural projects selected by the NCI to be components of the TMEN will participate in a manner that is analogous to the U54 awardees. Applicants may only submit one proposal to this competition as Principal Investigator.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-06-014.html>.

Neurofibromatosis Research Program (NFRP) Concept Awards
Congressionally Directed Medical Research Programs (CDMRP)
U.S. Army Medical Research and Materiel Command (USAMRMC)
Deadline: **April 25, 2006**

The overall goal of the FY06 NFRP is to develop effective therapies for NF1, NF2, and Schwannomatosis. Proposals to the NFRP are sought across all areas of laboratory, clinical, behavioral, and epidemiological research including all disciplines within the basic, clinical, psychosocial, behavioral, sociocultural, and environmental sciences, nursing, occupational health, alternative therapies, public health and policy, and economics. The intent of the NFRP Concept Award is to fund the exploration of an initial concept or theory that could give rise to a testable hypothesis. Presentation of preliminary data is not consistent with the intent of this award mechanism. These awards provide investigators with the opportunity to pursue serendipitous observations; it is anticipated that research completed through a Concept Award may provide sufficient preliminary data to enable the investigator to prepare a hypothesis-based proposal for future research.

For more information:

https://cdmrp.org/Program_Announcements_and_Forms/index.cfm?prg=NFRP&prg_fy=2006
(click on Concept Awards).

Tuberous Sclerosis Complex Research Program (TSCRCP) Concept Award
Congressionally Directed Medical Research Programs (CDMRP)
U.S. Army Medical Research and Materiel Command (USAMRMC)
Deadline: **April 25, 2006**

The overall goal of the FY06 TSCRCP is to decrease the impact of tuberous sclerosis complex. Within this context, the encouragement of established scientists in the field and the attraction of new scientific expertise from other fields are essential to the tuberous sclerosis complex community. The intent of the TSCRCP Concept Award is to fund (1) the exploration of an initial concept or theory that could give rise to a testable hypothesis; and/or (2) the development of novel preclinical tools needed to advance research in tuberous sclerosis complex. These tools may include, but are not limited to, animal models, antibodies, cell lines, assays, and reagents.

For more information:

https://cdmrp.org/Program_Announcements_and_Forms/index.cfm?prg=TSCRCP&prg_fy=2006
(Click on “Concept Award”).

NLM Research Grants in Biomedical Informatics and Bioinformatics
National Institutes of Health
Deadline: **June 1**, October 1, and February 1, annually

The National Library of Medicine (NLM) offers research grants in biomedical informatics and bioinformatics. NLM’s research funding centers on data, information and knowledge – their

nature, forms and uses – in the domains of health care and basic biomedical sciences. Informatics research is defined as the intersection of informational and computer sciences with an application domain such as health care delivery or administration, basic biomedical research, health services research, public health, or related fields. 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. The total amount awarded and the number of awards will depend upon the mechanism numbers, quality, duration, and costs of the applications received.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-06-094.html>.

Parenting Capacities and Health Outcomes in Youths and Adolescents

National Institutes of Health

Deadline: **June 1**, October 1, and February 1, annually

This program announcement solicits research applications aimed at increasing the parenting skills and capacities of parents and caregivers to improve the health outcomes of their young and adolescent children. This is important because childhood, and particularly adolescence, is a time for the development of health habits that can last a lifetime. Moreover, adolescence is a transitional period during which experimentation and high-risk health behaviors may be displayed. The long-term consequences of health habits and behaviors often become manifest in young adulthood and adulthood. Against this backdrop, it is well documented that the probability of children and adolescents acquiring non-optimal health behaviors and developmental problems increases significantly when their adult caregivers exhibit ineffective parenting skills and practices. Thus, interventions to increase parenting skills and capacities and reduce high-risk behaviors should involve both parents and their children. Interventions targeting two or more risk factors that indicate ineffective parenting practices (e.g., lack of appropriate parental monitoring, supervision, and communication, high family conflict and disorganization, parental stress and depression, lack of parent-child bonding and negative discipline methods) that simultaneously focus on multiple high-risk adolescent health behaviors (e.g., unhealthy dietary behaviors, inadequate physical activity, tobacco use, alcohol and other drug use, sexual behaviors, and unintentional (e.g., accidents) and intentional behaviors (e.g., firearm related injuries), are fundamental to this initiative. Interventions that target the reduction of a broad range of family risk factors and simultaneously build upon protective factors are highly encouraged.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-06-097.html>.

Behavioral Systems Cluster

Division of Integrative Organismal Biology

National Science Foundation

Deadlines: **July 12** and January 12, annually

The Behavioral Systems thematic area focuses on the development, function, mechanisms, and evolution of behavior, biological rhythms, and interactions between organisms including animals, plants, and microbes. This area supports research on social and reproductive behavior; behavioral ecology and physiology; neural and hormonal mechanisms of behavior; immunology of behavior;

animal cognition and communication. Behavioral Systems encompasses physiological responses, chemical communication, and reproductive consequences of plant interactions with other organisms. Proposals that use functional genomics to understand physiological and behavioral adaptations to environmental stimuli and stress are encouraged.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13405.

Developmental Systems Cluster

Division of Integrative Organismal Biology

National Science Foundation

Deadlines: **July 12, 2006** and January 12, 2007

The Developmental Systems thematic area focuses on the nature, control, and evolution of those processes that comprise the life cycle of organisms. This area includes research on the mechanisms of gametogenesis, fertilization, embryogenesis, differentiation, pattern formation, and morphogenesis, including research on the development, regeneration, and aging of the nervous system. Genomic approaches, gene networks, integration of developmental gene pathways, and computational approaches are included. Studies that explore the evolution of developmental mechanisms are encouraged.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13407.

Environmental and Structural Systems Cluster

Division of Integrative Organismal Biology

National Science Foundation

Deadlines: **July 12, 2006** and January 12, 2007

The Environmental & Structural Systems thematic area focuses on the functional evolution of organisms in their physiochemical and biotic environments. Included are studies of physiological ecology, evolutionary physiology, stress physiology, functional morphology and movement, animal sensation, computational and systems neuroscience, and environmental genomics. Proposals that include computational or engineering approaches in any of these areas of biology are encouraged.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13408.

Functional and Regulatory Systems Cluster

Division of Integrative Organismal Biology

National Science Foundation

Deadlines: **July 12, 2006** and January 12, 2007

The Functional & Regulatory Systems thematic area focuses on fundamental physiological mechanisms in plants and animals and how they have evolved, with emphasis on organisms as integrated systems. This area includes comparative physiology, neurophysiology, mechanisms of

solute transport, and comparative or evolutionary immunology. It includes research at the genetic, genomic, cellular, tissue, organ, system, and organismal levels of organization. Also supported in this area are studies of neuronal and glial cell function and synaptic mechanisms as they relate to integrated organismal systems. Proposals for computational modeling to further understanding of physiological processes in organisms are encouraged.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13409.

Genes and Genome Systems Cluster

National Science Foundation

Deadlines: **July 12, 2006** and January 12, 2007

The Genes and Genome Systems Cluster supports studies on genomes and genetic mechanisms in all organisms, whether prokaryote, eukaryote, phage, or virus. Proposals on the structure, maintenance, expression, transfer, and stability of genetic information in DNA, RNA, and proteins and how those processes are regulated are appropriate. Areas of interest include genome organization, molecular and cellular evolution, replication, recombination, repair, and vertical and lateral transmission of heritable information. Of equal interest are the processes that mediate and regulate gene expression, such as chromatin structure, epigenetic phenomena, transcription, RNA processing, editing and degradation, and translation. The use of innovative in vivo and/or in vitro approaches, including biochemical, physiological, genetic, genomic, and/or computational methods, is encouraged, as is research at the interfaces of biology, physics, chemistry, mathematics and computer science, and engineering.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12780.

Biological Oceanography Program

National Science Foundation

Deadline: **August 15, 2006** and February 15, 2007

The Biological Oceanography Program supports research in marine ecology broadly defined: relationships among marine organisms and their interactions with the environment of the oceans or Great Lakes. Projects submitted to the program for consideration are often interdisciplinary efforts that may include participation by other OCE Programs.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11696.

Research on Pathways Linking Environments, Behaviors and HIV/AIDS

National Institutes of Health

Deadlines: **September 1**, 2006, 2007 and 2008

This Program Announcement calls for research studies on the relationships among social environments, individual behaviors, and the incidence and prevalence of HIV/AIDS in populations.

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. The total amount awarded and the number of awards will depend upon the mechanism numbers, quality, duration, and costs of the applications received. Type of award mechanism: R01.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PAR-06-114.html>.

PHYSICAL SCIENCES & MATHEMATICS

See also listings under EDUCATION and MULTIPLE DISCIPLINES

Chretien International Research Grants

American Astronomical Society

Deadline: **April 1**, annually

In honor of the memory of Henri Chretien, French Professor of Optics and co-originator of the Ritchey-Chretien telescope design, the American Astronomical Society has been named to administer grants to further international collaborative projects in observational astronomy. Emphasis is on long-term visits and the development of close working relationships with astronomers in other countries. Astronomers with a Ph.D or equivalent are eligible to apply; graduate students are not eligible. Up to \$20,000 (U.S.) is available each year to one or more individuals or groups to be used for the support of international observational astronomy with the emphasis upon long-term, international visits.

For more information:

<http://www.aas.org/grants/chretien.html?CFID=304161&CFTOKEN=54967309>.

Advanced Diagnostics and Imaging (Low Permeability Gas Formations)

U.S. Department of Energy

Deadline: **April 17, 2006**

The general purpose of this Funding Opportunity is to receive applications for cost-shared research projects to develop advanced technologies and techniques that improve detection, characterization, and/or production from low-permeability gas accumulations. The Area of Interest addressed by this announcement is targeted at seismic technology, well logging tools and analysis, completion and stimulation techniques, and geochemical or geophysical tools and techniques.

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/86F7B7042FF99DC185257116004E1542?OpenDocument>.

Interfacial, Transport, and Thermodynamics Program (ITTP)

Division of Chemical & Transport Systems

Deadlines: **September 1** and March 1, annually

The Interfacial, Transport, and Thermodynamics Program (ITTP) supports research in engineering science areas related to interfacial phenomena, mass transport phenomena, separation science, and phase equilibrium solution thermodynamics. Recently, emphasis is placed on molecular engineering

approaches as applied to processing of soft materials, especially thin films and porous media. Often surface-active molecules direct the formation of responsive or functional surfaces at the nano-scale. Methods such as molecular simulation are sometimes used, in addition to experimental observation. New theories and simulation approaches determining the thermodynamic, interfacial, and mass transport phenomena properties of fluids and fluid mixtures in biological and other fluids with complex molecules are supported. Proposals dealing with pollution prevention at the source and energy storage in the context of the above phenomena are also entertained. International collaboration and industrial is encouraged. Generally, non-reactive systems are studied.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13362.

Fluid Dynamics and Hydraulics Program

National Science Foundation

Deadlines: **September 15** and March 1, annually

The Fluid Dynamics and Hydraulics Program supports fundamental research concerning the mechanisms that govern fluid flow phenomena. Topics of interest include Newtonian and non-Newtonian fluids, experimental and computational investigations, instrumentation and flow diagnostics, micro- and nano- scale flow phenomena, multi-scale and multi-physics phenomena, biological and biomedical fluid flow, and environmental flows. Proposed research should contribute to the basic understanding of fluid dynamics, thus enabling the better design, predictability, efficiency and control of systems that involve fluids. Main research areas funded by the program include:

- Hydrodynamic Stability, Turbulence and Flow Control
- Rheology, Polymers and Complex Fluids
- Micro-, Nano- and Bio- Fluid Dynamics
- Waves, Hydraulics, and Environmental Fluid Mechanics

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13365.

Ceramics

Division of Materials Research

National Science Foundation

Deadline: Full Proposal Window: October 2, 2006 - **November 3, 2006**

Supports research investigating the characteristics of ceramic materials as they relate to the complex interplay among processing, development, and manipulation of microstructure, and properties and their ultimate performance in various applications and environments. The materials studied include oxides, carbides, nitrides, and other ceramics, including diamond and carbon-based materials. The microstructures investigated range from crystalline, polycrystalline, and amorphous to composite and nanostructured. Potential uses include, but are not limited to, electronic and electrical, electrochemical, structural, optical/photonic, and biological/medical applications.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5352.

Electronic Materials

Division of Materials Research

National Science Foundation

Deadline: Full Proposal Window: October 2, 2006 - **November 3, 2006**

Supports research that investigates the fundamental phenomena associated with the synthesis and processing of electronic and photonic materials. The objective is to increase fundamental understanding and develop predictive capabilities for relating synthesis, processing, and microstructure of these materials to their properties and performance in various applications and environments. Topics supported include basic processes and mechanisms associated with nucleation and growth of thin films; nanostructure definition and etching processes; bulk crystal growth; and the interrelationship among experimental conditions, phenomena, and properties.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5353.

Metals

Division of Materials Research

National Science Foundation

Deadline: Full Proposal Window: October 2, 2006 - **November 3, 2006**

The Metals program of the NSF Division of Materials Research supports research to increase understanding and predictive capabilities for relating synthesis, processing, alloy chemistry, and microstructure of metals to their physical and structural properties and performance in various applications and environments. Metals research encompasses the broad areas of physical and mechanical metallurgy. Topics supported include phase transformations and equilibria; morphology; solidification; surface modification, structure, and properties; interfaces and grain boundary structure; nanostructures; corrosion and oxidation; defects; deformation and fracture; and welding and joining.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5351.

Inorganic, Bioinorganic and Organometallic Chemistry

Division of Chemistry

National Science Foundation

Deadline: Proposals accepted anytime; no fixed due dates

Supports research on the synthesis, properties, and reaction mechanisms of molecules composed of metals, metalloids, and nonmetals with elements covering the entire periodic table. Included are fundamental studies that underscore (1) bioinorganic reactions, (2) homogeneous catalysis and organometallic reactions, (3) photochemical and charge transfer processes, and (4) studies aimed at the rational synthesis of new inorganic molecular substances, self-assemblies, and nano-size materials with predictable chemical, physical, and biological properties. Objectives are to provide the basis for understanding (1) the function of metal ions in biological systems, (2) the behavior of new inorganic materials and new industrial catalysts, and (3) the systematic chemistry and behavior of most of the elements and compounds in the environment.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5373.

SOCIAL SCIENCES

See also listings under EDUCATION, HUMANITIES, and MULTIPLE DISCIPLINES

Evaluation of Technologies

National Institute of Justice

Deadline: **March 7, 2006**

NIJ seeks evaluations of technologies designed to increase the effectiveness of State and local law enforcement, corrections, and other criminal justice agencies. NIJ is interested in evaluations that measure how technologies improve criminal justice policy and practices. Outcome evaluations must include well-defined, measurable indicators of success. NIJ prefers proposals that focus on the impact of technologies on crime reduction. Additional outcome measures may include faster identification and apprehension of criminal suspects; reductions in criminal opportunities, technical probation violations and revocations, and crime and violence in school settings; increased problem-solving capabilities; and fewer injuries to officers, suspects, and bystanders. NIJ will give priority to evaluation research designs that use randomized control trials.

For more information: <http://www.ncjrs.gov/pdffiles1/nij/sl000740.pdf>.

Methodological Advances in Benefit Transfer Methods

U.S. Environmental Protection Agency

Deadline: **May 16, 2006**

Public decisions on further environmental protection often depend on benefit-cost analysis, cost-effectiveness analysis, natural resource damage assessment, or related economic assessments. The need for such analyses is growing and applies to agencies at all levels of government and to private entities. As the need for analysis grows, time and cost considerations usually preclude collecting new data and using a primary valuation method to estimate human health and ecological benefits for economic analyses. Policymakers usually rely on benefit transfer methods instead. Benefit transfer methods apply values or functions estimated in previous study cases to new policy cases. However, many evaluations of the accuracy of benefit transfer methods have been critical. These evaluations have identified problems with aggregation, differences in goods between the policy and study cases, out-of-sample extrapolation, violations of utility theory, and a lack of values that correspond to the marginal changes of policy interest. Thus, EPA is interested in proposals for research designed to identify and reduce uncertainties and potential biases associated with benefit transfer methods. EPA expects to make up to 5 awards for up to \$125,000/year with a duration of 1 or 1.5 years and no more than a total of \$200,000 per award, including direct and indirect costs.

For more information: http://es.epa.gov/ncer/rfa/2006/2006_star_methodological.html.

Social Psychology Program

National Science Foundation

Deadlines: **July 15, 2006**; January 15, 2007

The Social Psychology Program supports basic research on human social behavior, including cultural differences and development over the life span. Among the many research topics supported

are: attitude formation and change, social cognition, personality processes, interpersonal relations and group processes, the self, emotion, social comparison and social influence, and the psychophysiological and neurophysiological bases of social behavior. The scientific merit of a proposal depends on four important factors: (1) The problems investigated must be theoretically grounded. (2) The research should be based on empirical observation or be subject to empirical validation. (3) The research design must be appropriate to the questions asked. (4) The proposed research must advance basic understanding of social behavior.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5712.

MULTIPLE DISCIPLINES

Urban Partnership Academic Centers of Excellence (U-PACE)

National Center for Injury Prevention and Control (NCIPC)

Centers for Disease Control and Prevention

Deadlines: Letter of Intent: **February 28, 2006**

Full Proposal: March 30, 2006

NCIPC is soliciting research applications to establish Urban Partnership Academic Centers of Excellence, one serving a high-risk community in Philadelphia and the other serving a high-risk community in a city not currently being served by CDC's National ACE Program on Youth Violence funded under PA05018. The Centers are expected to actively foster an environment conducive to reciprocally beneficial collaborations among health scientists, social scientists and a targeted high-risk community with the common goal of reducing youth interpersonal violence, injury and death. The total award amount will be approximately \$851,400 per Center, and two awards will be made, depending on the availability of funds.

For more information: <http://www.cdc.gov/od/pgo/funding/CE06008.htm>.

21st Century Museum Professionals

Institute of Museum and Library Services

Deadline: **March 15, 2006**

Museums play a critical role in the education of the public in the United States by preserving America's rich cultural heritage and helping to transmit it from one generation to the next. Museum professionals need high levels of knowledge and expertise as they help to create public value for both local and national communities. This program supports projects that address the preparation of museum professionals for the future by updating and expanding their knowledge and skills. The 21st Century Museum Professionals program supports a range of activities, including professional training in all areas of museum operations and leadership development. This program provides the museum community with support for a variety of training and personnel development activities for museum staff members across all types of museums, as well as the collection and dissemination of information to museum professionals and the public. Project design could include direct dissemination of information through workshops, seminars,

and courses or indirect communication through publications and Web sites. Projects should benefit multiple institutions or diverse constituencies.

For more information: <http://www.imls.gov/applicants/grants/21centuryMuseums.shtm>.

Nanomedicine Development Centers

National Institutes of Health (NIH)

Deadlines: Concept Approval Letter (required): **March 15, 2006**

Full Proposal (if concept approved): June 23, 2006

The NIH invites applications for funding Nanomedicine Development Centers (NDC) by the NIH Nanomedicine Roadmap program. These centers will join a network of four NDCs that were awarded in fiscal year 2005. Each multidisciplinary center will consist of a team of clinicians, biologists, engineers, physical scientists, and mathematicians that work together to investigate the physical properties of molecules and molecular complexes in living cells in order to understand design principles of the native molecular machinery that operates inside cells. The long-term (10-year) goal is to engineer molecular components and complexes in cells to treat disease and/or repair tissue. It is anticipated that two, three or four new, five-year awards will be made under this RFA. The NIH intends to commit up to \$1.4 million per year per center in the first year; thereafter, it is expected that a base amount of \$1.2 million per year will be available for each center during the award period. **Prior approval is required before submitting applications in response to this RFA.** Concept approval letters must be submitted by March 15, 2006. The primary purpose of the letter is to give NIH staff and reviewers an overview of the proposed vision, goals, and approach, without requiring investigators to prepare costly, time-consuming applications. By April 17, 2006, NIH will notify parties submitting concept letters whether or not they will be asked to submit a full proposal. Individuals may submit one application as the Principal Investigator, but may be a co-investigator or consultant on other applications. Multiple applications from a single institution may be submitted.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-06-007.html>.

National Science, Technology, Engineering, and Mathematics Education Digital Library (NSDL)

National Science Foundation

Deadlines: Letter of Intent: **March 15, 2006**

Full Proposal: May 1, 2006

Building on work supported under the multi-agency Digital Libraries Initiative, this program aims to establish a national digital library that will constitute an online network of learning environments and resources for science, technology, engineering, and mathematics (STEM) education at all levels. The program has three tracks: (1) Pathways projects are expected to provide stewardship for the content and services needed by major communities of learners. (2) Services projects are expected to develop services that support users, resource collection providers, and the Core Integration effort and that enhance the impact, efficiency, and value of

the library. (3) Targeted Research projects are expected to explore specific topics that have immediate applicability to collections, services, and other aspects of the development of the digital library. In FY2006 the program will only accept proposals in the Pathways component of these three tracks. The program will also accept proposals for supplemental funding from existing projects to extend or enhance their services, collections, or targeted research activity so as to enlarge the user audience for NSDL or improve capabilities for the user. An individual may serve as the Principal Investigator (PI) on no more than one proposal, including collaborative proposals, submitted in the FY2006 competition, but may serve as a co-PI on multiple proposals.

For more information: <http://www.nsf.gov/pubs/2006/nsf06533/nsf06533.htm>.

Office of FreedomCAR & Vehicle Technologies FY06 Funding Opportunity Announcement

U.S. Department of Energy

Deadline: **March 16, 2006**

The U.S. Department of Energy (DOE), National Energy Technology Laboratory (NETL), on behalf of the Office of Energy Efficiency and Renewable Energy's (EERE) Office of FreedomCAR and Vehicle Technologies (OFCVT), is seeking applications for cost-shared projects supporting various programs within the OFCVT. The objective of this announcement is to provide financial support to improve the efficiency and performance and reduce emissions in High Efficiency Clean Combustion applications. The announcement addresses two areas of interest: (1) Advanced Start-of-Combustion, Nox or PM Sensor; and (2) Fuels, Fuel Additives, and Lubricant Formulations.

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/12C01A28F9213F0C85257102006DDD1F?OpenDocument>.

High Temperature, High Pressure Drilling Program

National Energy Technology Laboratory

U.S. Department of Energy

Deadline: **March 21, 2006**

The general objective of this Announcement is to develop new high temperature, high pressure drilling technologies that will aid the nation in meeting the increasing natural gas demands of the future. Technologies to economically access and produce from the deep (>20,000 feet) and/or high temperature (>400°F) high pressures (>15,000 psi) caustic gas resources are included in this Announcement. The technologies and needs to drill and produce the deep horizons have been identified in the Deep Trek R&D Planning Workshop held March 20-21, 2001 and by industry forums such as The Gulf of Mexico Shallow Water Deep Gas workshops. To achieve the objectives, the DOE/NETL, through the Office of Natural Gas, is requesting applications that fit under DOE's Deep Trek Program, which focuses on developing electronics which will operate in very deep (>20,000 feet) high temperature (>400 F), high pressure (>15,000 psi), hard rock, corrosive environments. Applications shall be submitted under one (1) of the following two (2) Areas of Interest: Area of Interest 1: Electronics; Area of Interest 2: Drilling Technologies

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/501515AAEE3E10A852570FC0075D3FB?OpenDocument>.

Alcohol and Other Drug Prevention Models on College Campuses

U.S. Department of Education

Deadline: **March 22, 2006**

This program provides awards to maintain, improve, further evaluate, and disseminate models of alcohol and other drug prevention at institutions of higher education. Eligible Applicants are Institutions of Higher Education (IHEs) that offer an associate or baccalaureate degree. Additionally, to be eligible, an IHE must not have received an award under this grant competition (CDFA #84.184N) during the previous five (5) fiscal years (FY 2000 through FY 2004).

For more information: <http://www.ed.gov/programs/dvpcollege/applicant.html>.

Integrated Research, Education, and Extension Competitive Grants Program—Conservation Effects Assessment Project

Cooperative State Research, Education, and Extension Service (CSREES)

U.S. Department of Agriculture

Deadline: **April 11, 2006**

CSREES requests applications for the Integrated Research, Education, and Extension Competitive Grants Program—Conservation Effects Assessment Project (CEAP) for fiscal year (FY) 2006 to develop research, education, and extension projects aimed at improving the quality of water resources in agricultural watersheds across the Nation. CEAP seeks to fund projects that evaluate the effects of watershed conservation practices, especially with respect to understanding how the suite of conservation practices, the timing of these activities, and the spatial distribution of these practices throughout a watershed influence their effectiveness for achieving locally defined water quality goals. An extensive body of literature exists that describes plot- or field-scale conservation practices aimed at protecting water quality. However, research results from plot- and field-scale studies are limited in that they cannot capture the complexities and interactions of conservation practices within a watershed. CEAP responds to a need to conduct research that: 1) evaluates the impacts of interactions among conservation practices and their biophysical setting on water quality at the watershed scale; and 2) evaluates social and economic factors influencing implementation and maintenance of practices. CEAP also responds to a need to conduct outreach education.

For more information: http://www.csrees.usda.gov/funding/rfas/conservation_effects.html.

Program for North American Mobility in Higher Education

U.S. Department of Education

Deadline: **April 17, 2006**

The Program for North American Mobility in Higher Education is a grant competition run cooperatively by the governments of the United States, Canada, and Mexico. The purpose of this competition is to promote a student-centered, North American dimension to education and

training in a wide range of academic and professional disciplines. The Program will fund collaborative efforts in the form of consortia consisting of at least two academic institutions from each country. The funding period will be for up to four years. The Program for North American Mobility in Higher Education fosters student exchange within the context of multilateral curricular development. Students benefit from having an added "North American" curriculum and cultural dimension to their studies through combination of trilateral curricular innovation and study abroad.

For more information: <http://www.ed.gov/programs/fipsenortham/applicant.html>.

US-Brazil Higher Education Consortia Program

U.S. Department of Education

Deadline: **April 17, 2006**

The U.S.-Brazil Higher Education Consortia Program (U.S.-Brazil Program) is a grant competition run cooperatively by the governments of the United States and Brazil. The purpose of this competition is to promote student-centered cooperation between the United States and Brazil to increase cross-national education and training opportunities in a wide range of academic and professional disciplines. The U.S.-Brazil Program will fund collaborative efforts in the form of consortia. A consortium must have at least two academic institutions from each country. The funding period will be for four years. The U.S.-Brazil Program fosters university partnerships through the exchange of undergraduate and graduate students, faculty, and staff within the context of bilateral curricular development. Students benefit from having an international curriculum and cultural dimension added to their studies through a combination of bilateral curricular innovation and study abroad.

For more information: <http://www.ed.gov/programs/fipsebrazil/applicant.html>.

Save America's Treasures

U.S. National Park Service

Deadline: **April 18, 2006**

Save America's Treasures grants are available for preservation and/or conservation work on nationally significant intellectual and cultural artifacts and collections and on nationally significant historic properties. Grants are awarded through a competitive process and require a dollar-for-dollar, non-Federal match, which can be cash, donated services, or use of equipment. The grant and the non-Federal match must be expended during the grant period (generally 2 to 3 years) to execute the project. The minimum grant request for collections projects is \$25,000 Federal share; the minimum grant request for historic property projects is \$125,000 Federal share. The maximum grant request for all projects is \$700,000 Federal share. The Save America's Treasures Grants Selection Panel may, at its discretion, award less than the minimum grant request.

For more information: <http://www.cr.nps.gov/hps/treasures/index.htm>.

Mathematical Social and Behavioral Sciences (MSBS)

National Science Foundation

Deadline: **April 20, 2006**

This solicitation invites submission of research proposals for projects that advance the mathematical or statistical foundations of research in the social, behavioral, or economic sciences. The resulting research is expected both to further understanding of social and/or behavioral science phenomena and to address a topic of interest to the mathematical sciences. Proposals for workshops or symposia that foster the interaction of social, behavioral, and/or economic scientists with mathematicians and/or statisticians also are welcome.

For more information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11683.

Food and Agricultural Sciences National Needs Graduate and Postdoctoral Fellowship Grants Program

Cooperative State Research, Education, and Extension Service

U.S. Department of Agriculture

Deadline: **April 28, 2006**

The Cooperative State Research, Education, and Extension Service (CSREES) requests applications for the Food and Agricultural Sciences National Needs Graduate and Postdoctoral Fellowship Grants Program for the fiscal year (FY) 2005/2006 award cycle to provide traineeship programs to eligible institutions for meeting the national need to develop scientific and professional expertise in the food and agricultural sciences. In FY 2006 (for the FY 2005/2006 award cycle) CSREES is soliciting applications: (1) for Fellowships to train students for master's and doctoral degrees in food and agricultural sciences, and; (2) for Special International Study or Thesis/Dissertation Research Travel Allowances (IRTA) for eligible USDA Fellows.

For more information: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=8047>.

International Polar Year 2007-2008 (IPY)

National Science Foundation

Deadline: **May 1, 2006**

The "International Polar Year 2007-2008" (IPY) will extend from March 2007 through March 2009. IPY is envisioned as an intense scientific campaign to explore new frontiers in polar science, improve our understanding of the critical role of the polar regions in global processes, and educate the public about the polar regions. Projects are expected to involve a pulse of activity during the IPY period; have multi- and interdisciplinary scopes; leave a legacy of infrastructure and data; expand international cooperation; engage the public in polar discovery; and help attract the next generation of scientists and engineers. In anticipation of IPY, the Office of Polar Programs (OPP) and the Directorate for Education and Human Resources (EHR) have identified special emphasis areas that will require preparation in advance of IPY. These are the

subject of the present focused solicitation. The research emphasis areas are: ice sheet history and dynamics; biological adaptations at the cellular and genomic level to life in extreme cold and prolonged darkness; and the arctic observing network. Proposed research activities must be integrally related to one or more of these emphasis areas and adhere to the guidance of the National Research Council's report *A Vision for the International Polar Year 2007-2008* (2005), including specific significant linkages to international activities. The educational emphasis areas for this solicitation are: formal science education experiences for K-12 teachers and undergraduate or graduate students, informal science education for the broader public, and coordination and communication for IPY education projects. In addition to the educational activities normally integrated into research proposals, this solicitation will consider standalone proposals that specifically address one or more of these focus areas.

For more information: <http://www.nsf.gov/pubs/2006/nsf06534/nsf06534.htm>.

Canon National Parks Science Scholars Program

U.S. National Park Service

Deadline: **May 3, 2006**

The Canon National Parks Science Scholars Program is a collaboration among Canon U.S.A., Inc., the American Association for the Advancement of Science (AAAS) and the U.S. National Park Service (USNPS). Begun in 1997, the program annually awards doctoral dissertation scholarships to support graduate student research in national parks. Much of the science important to the future of national parks crosses traditional academic disciplines. Awards are made in four categories, broadly defined:

- biological sciences (including such disciplines as botany, ecology or conservation biology),
- physical sciences (including such disciplines as geology, hydrology and atmospheric sciences),
- social/cultural sciences (including such disciplines as economics, sociology, anthropology and archeology), and
- technology innovation in support of conservation science (including such fields as informatics, remote sensing, photomonitoring, and radiotelemetry).

The awards are based on competitions in each of the four categories. Each winning student will be awarded a Canon National Parks Science Scholarship of \$80,000 paid in two installments.

For more information: <http://www.nature.nps.gov/canonscholarships/>.

Advanced Learning Technologies (ALT)

National Science Foundation

Deadlines: **May 4, 2006**; April 25, 2007; April 25, 2008

Through the Advanced Learning Technologies program, NSF supports research that (1) enables radical improvements in learning through innovative computer and information technologies, and (2) advances research in computer science, information technology, learning, and cognitive

science through the unique challenges posed by learning environments and learning technology platforms. Integrative research approaches that build across disciplines and establish tight linkages among theory, experiment, and design are strongly encouraged. Technology goals may include systems for tutoring or assessment, modeling and sensing of cognitive or emotional states, context awareness, natural language interfaces, collaboration, knowledge management, and non-traditional goals that redefine the roles of technology in learning. Educational foci for ALT projects must include an area of science, technology, engineering, or mathematics (STEM), or general cross-cutting skills directly relevant to STEM. In response to this solicitation, an investigator may participate as PI or Co-PI in no more than one proposal.

For more information: <http://www.nsf.gov/pubs/2006/nsf06535/nsf06535.htm>.

Course, Curriculum, and Laboratory Improvement (CCLI)

National Science Foundation

Deadlines: Phase 1 Projects in states and territories beginning with A through M: **May 9, 2006**

Phase 1 Projects in states and territories beginning with N through Z: May 10, 2006

Phase 2 and 3 Projects: January 10, 2007

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 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. The CCLI program is accepting proposals under this solicitation for three types of projects representing different phases of development. These phases reflect the number of components of the cyclic model included in the project (scope); the number of academic institutions, students and faculty members involved in the project (scale); and the maturity of the proposed educational innovation (state). *Phase 1 Projects* typically will address one program component and involve a limited number of students and faculty members at one academic institution. *Phase 2 Projects* build on smaller-scale successful innovations or implementations, such as those produced by Phase 1 projects, and refine and test these on diverse users in several settings. *Phase 3 Projects* combine established results and mature products from several components of the cyclic model. Such projects involve several diverse academic institutions, often bringing different kinds of expertise to the project. Evaluation activities are deep and broad, demonstrating the impact of the project's innovations on many students and faculty at a wide range of academic institutions. An individual may be the main Principal Investigator (PI) on only one proposal submitted for any deadline. There is no restriction on the number of proposals for which an individual may serve as a co-PI.

For more information: <http://www.nsf.gov/pubs/2006/nsf06536/nsf06536.htm>.

Research and Evaluation on Education in Science and Engineering (REESE)

National Science Foundation

Deadlines: Letter of Intent: **March 28, 2006** (required for both types of proposals)

Full Proposal: Empirical Research and Evaluation Projects: **May 15, 2006**

Synthesis Research and Evaluation Projects: May 29, 2006

The Division of Research, Evaluation and Communication (REC) in the Directorate for Education and Human Resources (EHR) of the National Science Foundation (NSF) supports basic and applied research and evaluation that enhances science, technology, engineering and mathematics (STEM) learning and teaching. This solicitation calls for two types of proposals—synthesis and empirical.

- Synthesis Research and Evaluation Project proposals should identify areas where the knowledge base in either evaluation or research is sufficiently robust to support strong scientific claims, identify areas of importance to education research and practice, and propose rigorous methods for synthesizing findings and drawing conclusions. Proposals for workshops and other meetings are permitted.
- Empirical Research and Evaluation Project proposals should identify areas that have the potential for advancing discovery and innovation at the frontiers of STEM learning. These proposals are expected to be based deeply in the STEM disciplines and be theoretically and methodologically strong with the potential of contributing to theory, methodology, and practice.

For either type of proposal, areas of interest include behavioral, cognitive, social, and technological aspects of learning and education; learning in formal and informal settings; diffusion, implementation, and the role of context in educational and learning innovations; and theoretical, methodological, and statistical issues of importance in advancing research and evaluation. Investigators from across the broad range of disciplines supported by the NSF are invited to submit proposals. Interdisciplinary proposals are particularly welcome.

For more information: <http://www.nsf.gov/pubs/2006/nsf06537/nsf06537.htm>.

Broad Agency Announcement for Conferences, Workshops, and/or Meetings

U.S. Environmental Protection Agency

Deadline: Proposals accepted on a rolling basis (see below)

The U.S. Environmental Protection Agency is soliciting applications from eligible applicants for the planning, arranging, administering, and conducting of conferences in the areas of (1) EPA mission related issues connected to protecting, human health and safeguarding the natural environment; (2) advancing the scientific and technical research that promotes environmental protection; (3) exploring current and emerging issues of importance to environmental protection; and/or (4) encouraging collaboration among the nation's best scientists and engineers in academia, business and nonprofit research institutes. EPA will make funding decisions on a quarterly basis beginning approximately April 18, 2006, and thereafter approximately every three months. The next funding decisions will be approximately on July 17, 2006, October 16, 2006, and January 16, 2007. However, in order for a proposal to be considered for funding, it must be received by EPA no later than three months prior to the start of the conference for which the applicant is requesting EPA funding under this BAA and no later than January 18, 2007.

For more information: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=7638>.