

Funding Opportunities Bulletin

January 2006

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

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EDUCATION

Teaching American History

U.S. Department of Education

Deadline: **February 3, 2006**

Teaching American History grants support projects to raise student achievement by improving teachers' knowledge, understanding, and appreciation of traditional American history. Grant awards assist local educational agencies (LEAs), in partnership with entities that have extensive content expertise, to develop, document, evaluate, and disseminate innovative, cohesive models of professional development. By helping teachers to develop a deeper understanding and appreciation of traditional American history as a separate subject within the core curriculum, these programs improve instruction and raise student achievement. Each applicant LEA must propose to work in collaboration with one or more of the following: An institution of higher education; A non-profit history or humanities organization; A library or museum.

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

ENGINEERING & COMPUTER SCIENCE

See also listings under **MULTIPLE DISCIPLINES**

Collaborative Research in Aeronautical Science

Air Force Research Laboratory

Deadline: **January 20, 2006**

The Computational Sciences Center of AFRL is a research leader in high fidelity computational aerodynamics for Air Force systems. The three main research thrusts in the Center are high speed aero-physics, fine-scale unsteady flow, and computational support for AF analysis needs. With this BAA, the Computational Sciences Center will set up an ongoing partnership by establishing a Collaborative Center in Aeronautical Sciences. The initial focus for this

Collaborative Center will be on developing and integrating all of the computational tools required to perform reliable, high-fidelity, multi-disciplinary analysis of air breathing, hypersonic vehicle concepts. High performance software will be the critical medium of research and an important product of the collaboration. The baseline funding is \$500K annually.

For more information:

<http://www.fbo.gov/spg/USAF/AFMC/AFRLWRS/BAA%2DPKV%2D05%2D10/listing.html>.

Networking Technology and Systems (NeTS)

National Science Foundation

Deadlines: **March 2, 2006**, Second Wednesday in February, annually, beginning in 2007

The NeTS program solicitation invites research proposals in the field of networking and covers all aspects of networking research. It includes research on future end-to-end Internet architectures; sub-network architectures enabled by disruptive technologies such as programmable wireless, mobile wireless, wireless sensors, and optical networks; and strategic research on current Internet including measurement, modeling, and understanding of complex networks. The NeTS program also seeks to develop innovative curricular and educational materials that will help prepare the next generation of networking professionals. Proposers are encouraged to make bold assumptions about the future of networking. Proposals should describe high impact projects that address novel network architectures, protocols and/or technologies.

NeTS proposals are solicited in four research areas:

I. Programmable Wireless Networks (ProWiN): Funded projects will seek to exploit the capabilities of programmable radios to make more effective use of the frequency spectrum and to improve wireless network connectivity.

II. Networking of Sensor Systems (NOSS): Funded projects will seek to create architectures, tools, algorithms and systems that make it easy to assemble and configure networks of sensor systems.

III. Networking Broadly Defined (NBD): Funded projects will include a balance of theoretical and experimental research and/or education projects that expand our understanding of large, complex, heterogeneous networks, design of access and core networks based on emerging wireless and optical technologies, and continue the evolution of Internet.

IV. Future Internet Design (FIND): Funded projects will seek to design a next-generation Internet which we will call the "Future Internet" from core functionalities to designing for security and robustness, manageability, utility and social need, new computing paradigms, integration of new network technologies, higher-level service architectures, and new theories of network architecture.

An individual may appear as PI, Co-PI, Senior Personnel, or Consultant on no more than two NeTS proposals.

For more information: <http://www.nsf.gov/pubs/2006/nsf06516/nsf06516.htm>.

Cyber Trust

National Science Foundation

Deadlines: **March 6, 2006**; First Monday in February, annually thereafter

Computers reside at the heart of systems on which people now rely, both in critical national infrastructures and in their homes, cars, and offices. Today, many of these systems are far too vulnerable to cyber attacks that can inhibit their operation, corrupt valuable data, or expose private information. Future systems will include “sensors and computers everywhere”, exacerbating the attainment of security and privacy. Current security practices largely address current and known threats, but there is a need for research to take account of future threats.

Cyber Trust promotes a vision of a society in which networked computer systems are:

- more predictable, more accountable, and less vulnerable to attack and abuse;
- developed, configured, operated and evaluated by a well-trained and diverse workforce; and
- used by a public educated in their secure and ethical operation.

To improve national cyber security and to achieve the Cyber Trust vision, NSF will support a collection of projects that together:

- advance the relevant knowledge base;
- creatively integrate research and education for the benefit of technical specialists and the general populace; and
- effectively integrate the study of technology with the policy, economic, institutional and usability factors that often determine its deployment and use.

Proposals funded will cover a broad range of disciplines contributing to the Cyber Trust vision. Projects will be supported in three categories: Exploratory Research projects, Single Investigator or Small Group projects, and Team projects. The resulting Cyber Trust award portfolio will: advance the cyber security research frontier; build national education and workforce capacity (including undergraduate, graduate, and faculty development and training); and ensure that new knowledge can be put into practice. An individual may appear as PI, co-PI, Senior Personnel, or Consultant on no more than two proposals submitted to each annual Cyber Trust competition.

For more information: <http://www.nsf.gov/pubs/2006/nsf06517/nsf06517.htm>.

FINE ARTS

Coming Up Taller Awards

President’s Committee on the Arts and Humanities

Deadline: **January 30, 2006**

The Coming Up Taller Awards recognize and support outstanding community arts and humanities programs that celebrate the creativity of America's young people, provide them learning opportunities and chances to contribute to their communities. These awards focus national attention on exemplary programs currently fostering the creative and intellectual development of America's children and youth through education and practical experience in the arts and the humanities. Accompanied by a cash award, the Coming Up Taller Awards not only reward these projects with recognition but also contribute significant support to their continued

work. All programs must be nominated, although self-nominations are accepted. Completed nominations should be sent to the President's Committee on the Arts and the Humanities and received by the office on or before Monday, January 30, 2006.

For more information: <http://www.cominguptaller.org/new.html>.

Regional Touring Program

Mid-America Arts Alliance (M-AAA)

Deadline: Applications will be accepted between December 1, 2005 and **February 28, 2006**

The Regional Touring Program enriches the cultural life of communities in a six state region (Arkansas, Kansas, Missouri, Nebraska, Oklahoma, Texas) through support of touring performing arts programs. In partnership with the National Endowment for the Arts Regional Touring Program, the M-AAA Regional Touring Program supports performing artists' fees for presenters of all sizes and types. Presentations of any professional performing artist or company outside the presenter's state are considered. Special incentives are provided for engaging performing artists from within the Mid-America region and additional incentives are provided to rural or economically distressed communities. The next cycle of grants will support projects taking place between July 1, 2006 and June 30, 2007. We will begin accepting eGRANT applications on a first-come, first-serve basis beginning December 1, 2005, through February 28, 2006, or when funds have been depleted.

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

HUMANITIES

See also listings under EDUCATION, FINE ARTS and MULTIPLE DISCIPLINES

Implementation Grants for Humanities Projects in Libraries and Archives

National Endowment for the Humanities

Deadline: **February 6, 2006**

Implementation Grants support public humanities programs that interpret and use collections in libraries and archives. Public humanities programs promote lifelong learning in history, literature, comparative religion, philosophy, and other fields for broad public audiences. The topics and interpretive themes should appeal to a wide range of people or directly to a target audience. Support is available for various activities that use a range of formats, including:

- *Book and film discussion programs.* Programs should be thematically organized, encourage multiple viewpoints, and be led by qualified scholars. Training is supported when scholars or the organization's own staff may need special preparation.
- *Exhibitions (major or traveling).* Exhibitions based primarily on major library or archival collections should provide visitors with a visually appealing and interactive experience. They usually include companion public programs, publicity materials for all venues, and related curricular materials. Applicants proposing a major exhibition are encouraged to create smaller, more portable versions, such as panel exhibitions for use in small libraries

and other non-traditional venues. Up to \$150,000 in additional funding may be requested (for a maximum total request of up to \$450,000) to support a smaller, portable version of a larger exhibition that would travel to at least 15 additional venues across the country. These smaller exhibitions do not have to include original artifacts, but poster exhibits are not eligible. A temporary exhibition at one site is not eligible for support, unless there is also a smaller traveling version submitted as part of the same application.

- *Public conferences, forums, and symposia.* Programs should be aimed at public, not scholarly, audiences and relate to library or archival resources of the sponsoring institution.
- *Websites.* Websites should present material in creative ways, provide users with an interactive experience, and have a clear plan for identifying and reaching their intended audiences.

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

INTERNATIONAL AREA STUDIES

Short-Term Travel Grants

International Research and Exchanges Board (IREX)

Deadline: **February 1, 2006**

The Short-Term Travel Grants program provides fellowships for up to eight weeks to US postdoctoral scholars and holders of other graduate degrees for independent or collaborative research projects in Europe and Eurasia. Fellowships are available to applicants who demonstrate how their research will make a substantive contribution to knowledge of the contemporary political, economic, historical, or cultural developments in the region and how such knowledge is relevant to US foreign policy. The US Department of State Title VIII Program, the primary source of support for the STG Program, supports research topics that strengthen the fields of Eurasian and East European studies, and that address US foreign policy interests in the region, broadly defined. Historical or cultural research that promotes understanding of current events in the region is acceptable if an explicit connection is made to policy relevant issues, broadly defined.

For more information: <http://www.irex.org/programs/stg/index.asp>.

Policy-Connect Collaborative Research Grants

International Research and Exchanges Board (IREX)

Deadline: **April 1, 2006**

Policy-Connect provides American scholars with the means and support necessary to conduct research, particularly on lesser-studied regions such as the Balkans, Central Asia, and the Caucasus, where issues central to the national security and foreign policy interests of the United States must be studied. The knowledge and expertise gained by the grant recipients become a valuable resource for the policymaking community, as the scholars share the results of their

research through research briefs, policy fora, and individual meetings. The Policy-Connect Program provides fellowships of up to \$30,000 to US scholars and professionals for overseas research on contemporary political, economic, historical, or cultural developments relevant to US foreign policy. Fellowships support collaborative teams of two or three US scholars and professionals for up to 12 months. Upon completion of the project, scholars will be requested to present their research findings at a Policy Forum at the US Department of State and to write a short policy paper.

For more information: <http://www.irex.org/programs/policy-connect/index.asp>.

MEDICINE & LIFE SCIENCES

See also listings under MULTIPLE DISCIPLINES

Weight Loss in Obese Adults with Cardiovascular Risk Factors: Clinical Interventions

National Institutes of Health

Deadlines: Internal Competition: **January 3, 2006**

Letter of Intent to NIH (NOT required): January 17, 2006

Full Proposal: February 15, 2006

Limit on number of proposals:

The NIH invites applications for cooperative agreements to conduct Randomized Clinical Trials (RCTs) to test the effectiveness of interventions delivered in routine clinical practice on achieving weight loss in obese patients who have other CardioVascular Risk Factors (CVRFs). Routine clinical practice, for the purpose of this RFA is defined as outpatient clinical care-delivery and includes primary care settings as well as relevant specialty settings such as general internal medicine or cardiology practices. Effectiveness studies focus on interventions that can be easily adapted and adopted in routine clinical practice settings. This funding opportunity will use NIH's cooperative agreement (U01) award mechanism. The NHLBI intends to fund 3-5 RCTs, one of which will provide RCF for cross-study activities, such as help with identifying common measures and coordinating meetings. Each applicant may request a project period of five years and a budget for direct costs of up to \$3,550,000 for the RCT activities, and up to \$675,000 for RCF costs. Each applicant must apply to provide Resource and Coordination Functions (RCF) for cross-cutting activities. Each applicant organization may submit only one application. If you are interested in submitting to this initiative, please submit (1) a three-page pre-proposal (describing the proposed research, including key personnel and partnerships, and a generalized yearly budget) and (2) a short vita for the PI and all co-investigators, including funding history and current and pending support. Please submit this material electronically to Barbara Earl, manager of Proposal Services at KUCR, by 5:00 p.m. on January 3, 2006 (bearl@ku.edu, 864-7781). If the number of pre-proposals exceeds the mandated limit, an internal review committee will be formed to review all pre-proposals.

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

Protein Structure Initiative (PSI) Materials Repository

National Institute of General Medical Sciences (NIGMS)

National Institutes of Health

Deadlines: Internal Competition: **January 9, 2006**

Letter of Intent to NIH: January 23, 2006

Full Proposal to NIH: February 23, 2006

The overall goal of the PSI Materials Repository (MR) is to establish a resource of materials generated from the PSI Centers and to make these materials easily accessible to the biomedical research community. Initially, these materials will be the expression and sequence clones developed during the course of the structure determinations carried out by the PSI Centers. The PSI MR will exist as a separate entity with links to all of the information and databases associated with the PSI. The following are the main functions of the PSI MR: Centralization and maintenance of the materials from the PSI-1 and PSI-2 centers; Long-term storage and distribution of materials from the PSI centers; Archiving the PSI clones; Quality control and standardization; Use-restrictions; Publicity and outreach. An applicant may request a project period of up to 5 years. NIGMS intends to commit approximately \$1M in total costs for Year 1 of this project. An institution may submit only one application in response to this RFA. If you plan to submit a pre-proposal, please alert Barbara Earl (864-7781, bearl@ku.edu) one week prior to the internal deadline. This information will assist KUCR in organizing the review committee. The pre-proposal should include (1) a three-page pre-proposal (describing the proposed research, including key personnel and partnerships, and a generalized yearly budget) and (2) a short vita for the PI and all co-investigators, including funding history and current and pending support. Please submit this material electronically to Barbara Earl, manager of Proposal Services at KUCR, by 5:00 p.m. on January 9, 2006 (bearl@ku.edu, 864-7781). If the number of pre-proposals exceeds the mandated limit, an internal review committee will be formed to review all pre-proposals.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-GM-06-003.html>.

Structural Genomics Knowledgebase

National Institute of General Medical Sciences (NIGMS)

National Institutes of Health

Deadlines: Internal competition: **January 9, 2006**

Letter of Intent to NIH: January 24, 2006

Full Proposal to NIH: February 23, 2006

The purpose of this RFA is to announce support for a Structural Genomics Knowledgebase in support of the Protein Structure Initiative (PSI) and other related programs. All participating components of the PSI need to be highly integrated and synchronized in their efforts to contribute to the program mission. The main functions of the Knowledgebase in priority order are as follows: Structural genomics information repository and web portal; Structural genomics target management; Structural and functional annotation; Computational modeling support; Training and education coordination; Progress Analysis. The NIGMS intends to commit approximately \$2.5M in total costs for Year 1 of this project. An applicant may request a project

period of up to 5 years. An institution may submit only one application in response to this RFA. If you plan to submit a pre-proposal, please alert Barbara Earl (864-7781, bearl@ku.edu) one week prior to the internal deadline. This information will assist KUCR in organizing the review committee. The pre-proposal should include (1) a three-page pre-proposal (describing the proposed research, including key personnel and partnerships, and a generalized yearly budget) and (2) a short vita for the PI and all co-investigators, including funding history and current and pending support. Please submit this material electronically to Barbara Earl, manager of Proposal Services at KUCR, by 5:00 p.m. on January 9, 2006 (bearl@ku.edu, 864-7781). If the number of pre-proposals exceeds the mandated limit, an internal review committee will be formed to review all pre-proposals.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-GM-06-004.html>.

New Scholars Program in Aging 2006

Ellison Medical Foundation

Deadlines: Internal Competition: **January 16, 2006**

Full Proposal to Sponsor: March 2, 2006

This program is to support new investigators of outstanding promise in the basic biological sciences relevant to understanding aging processes and age-related diseases and disabilities. The award is intended to provide significant support to new investigators needed to permit them to become established in the field of aging. The New Scholars Program provides awards of up to \$50,000 per year for a four-year period for successful candidates. The invited institution may only nominate one candidate (KU-Lawrence and KUMC are considered one university). If you plan to submit a pre-proposal, please alert Barbara Earl (864-7781, bearl@ku.edu) one week prior to the internal deadline. This information will assist KUCR in organizing the review committee. The pre-proposal should include (1) a three-page pre-proposal (describing the proposed research, most significant research contribution to date, and a generalized yearly budget), and (2) a short vita for the PI, including funding history and current and pending support. Please submit this material electronically to Barbara Earl, manager of Proposal Services at KUCR, by 5:00 p.m. on January 16, 2006. If the number of nominations exceeds the mandated limit, an internal review committee will be formed to review all pre-proposals (comprised of research administrators from KU-Lawrence and KUMC).

For more information: http://www.ellisonfoundation.org/adsp.jsp?key=nsa_over.

Diabetes Research Grants

Juvenile Diabetes Research Fund

Deadlines: **January 17** and July 14, 2006

As the leading charitable funder of diabetes research worldwide, the Juvenile Diabetes Research Fund (JDRF) offers a wide variety of grants and fellowships to qualified researchers. JDRF is committed to spending more than \$100 million in FY06 to support research relevant to our

mission of finding a cure for diabetes and its complications. JDRF accepts applications for the following award types twice a year:

- Regular research grant
- Career development award
- Early career patient-oriented diabetes research award
- Advanced postdoctoral fellowship
- Postdoctoral fellowship

Deadlines for submission of the full application for the above award types are January 17, 2006 and July 14, 2006. Electronic submission of applications is required. Please note that one original and two hardcopies must also be submitted and received by the JDRF by January 24th and July 21st.

For more information: http://www.jdrf.org/index.cfm?page_id=103207.

Exploratory/Developmental Program for Translational Research in Muscular Dystrophy

National Institutes of Health

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

The National Institute of Neurological Disorders and Stroke and the National Institute of Arthritis and Musculoskeletal and Skin Diseases solicit applications for translational research projects in muscular dystrophy. Several emerging pathways to treatment of muscular dystrophy show promise, ranging from palliative therapies that can markedly delay onset or progression of the disease to genetic or stem cell approaches that may reverse or eliminate the condition. The objective of this initiative is to encourage the pursuit of a broad range of translational research strategies for therapeutic development in muscular dystrophy. This Program Announcement (PA) solicits exploratory/developmental applications that will provide the leads, tools, and resources needed for a subsequent therapy development project. Applications are encouraged for translational research exploratory/developmental projects for any one or more of the muscular dystrophies.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-06-043.html>.

K-INBRE Call for Proposals

University of Kansas Medical Center

Deadline: **February 1, 2006**

The Scientific Steering Committee for the K-INBRE is calling for proposals to support: (1) Pilot grants; (2) Bridging Grants; (3) Institutional Core Facilities; (4) Recruitment Packages. The purpose of this research support is to further the ability of Kansas researchers to compete successfully for NIH funds. Proposals are limited to one period of funding. However, a new proposal for an additional year of funding may be considered if progress is satisfactory and a proposal for NIH funding has been submitted or is in preparation. Eligible applicants: Tenure and Research Track Faculty Investigators, on the ten K-INBRE campuses, in all areas of Cell and Developmental Biology to include 1) reproduction and embryonic development, 2)

organogenesis, 3) developmental neuroscience, and 4) cellular and developmental pathologies are eligible to compete for Pilot, Bridging and Core Facility funds. Recruitment packages are restricted to the four graduate degree offering campuses. There are no restrictions on the number of proposals that may be submitted per institution or within a category. Proposals may not exceed \$35,000 for one period of funding. Proposals are due in the K-INBRE Administrative Office on February 1, by 5:00 PM. Awards will be announced by May 1.

For further information: Contact:

Heiata J. Chapman; Assistant Director K-INBRE; University of Kansas Medical Center
Mailstop 3050; 3901 Rainbow Blvd.; G017 Lied; Kansas City, KS 66160; (913) 588-7170; (913) 588-7180 (fax); hchapman@kumc.edu.

NIDCD Patient-Oriented Research Grant

National Institutes of Health

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

The purpose of this program announcement is to invite applications for patient-oriented research in the NIDCD mission areas of hearing, balance, smell, taste, voice, speech, and language. 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-06-040.html>.

Research Grants in Biomedical Informatics and Bioinformatics

National Library of Medicine

National Institutes of Health

Deadlines: **February 1**, June 1, and October 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. NLM Research grants in Biomedical Informatics and Bioinformatics use the R01 mechanism.

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

Research on Social Work Practice and Concepts in Health (R01)

National Institutes of Health

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

The ultimate goal of this program announcement is to encourage the development of empirical research on social work practice, concepts and theory as these relate to the NIH public health goal of improving health outcomes for persons with medical and behavioral disorders and conditions. 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 number, scientific merit, overall quality, duration, and costs of the applications received, as well as on the funds available at the participating NIH Institutes/Centers.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-06-081.html>.

Research on Social Work Practice and Concepts in Health (R03)

National Institutes of Health

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

The ultimate goal of this program announcement is to encourage the development of empirical research on social work practice, concepts and theory as these relate to the NIH public health goal of improving health outcomes for persons with medical and behavioral disorders and conditions. 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 number, scientific merit, overall quality, duration, and costs of the applications received, as well as on the funds available at the participating NIH Institutes/Centers.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-06-082.html>.

Research on Social Work Practice and Concepts in Health (R21)

National Institutes of Health

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

The ultimate goal of this program announcement is to encourage the development of empirical research on social work practice, concepts and theory as these relate to the NIH public health goal of improving health outcomes for persons with medical and behavioral disorders and conditions. 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 number, scientific merit, overall quality, duration, and costs of the applications received, as well as on the funds available at the participating NIH Institutes/Centers.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-06-083.html>.

Biotechnology Risk Assessment Research Grants (BRAG) Program

U.S. Department of Agriculture

Deadline: **February 16, 2006**

The purpose of the BRAG program is to assist Federal regulatory agencies in making science-based decisions about the effects of introducing into the environment genetically modified organisms, including plants, microorganisms (including fungi, bacteria, and viruses), arthropods, fish, birds, mammals and other animals excluding humans. Investigations of effects on both managed and natural environments are relevant. The BRAG program accomplishes its purpose by providing Federal regulatory agencies with scientific information derived from the risk assessment research that it funds. Applications to the BRAG program must address one of the following program areas or seek partial funding for a conference that addresses science-based risk assessment or risk management of genetically modified organisms released into the environment (See the full solicitation for more detailed descriptions): 1. Research designed to identify and develop appropriate management practices to minimize physical and biological risks to the environment associated with genetically engineered animals, plants, and microorganisms; 2. Research designed to develop methods to monitor the dispersal of genetically engineered animals, plants, and microorganisms; 3. Research designed to further existing knowledge with respect to the characteristics, rates, and methods of gene transfer that may occur between genetically engineered animals, plants, and microorganisms, and related wild and agricultural organisms; 4. Environmental assessment research designed to provide analysis which compares the relative impacts of animals, plants, and microorganisms modified through genetic engineering to other types of production systems; and 5. Other areas of research designed to further the purposes of the BRAG program.

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

Research Grants (Postdoctoral and Senior)

Paralysis Project of America

Deadline: **February 23, 2006**

The goal of this program is to provide funds to support investigators to initiate novel and innovative lines of research. Research supported by the Paralysis Project range from basic science for studies to understand the mechanisms involved in neural degeneration and plasticity, to the development of therapeutic interventions. Applications will be accepted for one year for Postdoctoral Fellows and for the total amount of \$34,000 per year (\$25,000 for salary and \$9,000 for benefits). No other support will be awarded. The principal investigator, who must hold the academic rank of assistant professor (or equivalent) or higher, is expected to provide funding necessary for the postdoctoral fellow to carry out the proposed studies. Senior investigators are eligible for funding of up to \$50,000 to initiate new research projects.

For more information:

<http://www.paralysisproject.org/researchgrants/researchgrants/researchgrants.html>.

Alcohol Metabolism and Epigenetic Effects on Tissue Injury (R01)

National Institutes of Health

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

Full Proposal: March 28, 2006

This Request for Applications (RFA) solicits new studies on 1) the identification and characterization of epigenetic mechanisms influencing alcohol-induced diseases and 2) the mechanisms by which alcohol-induced changes in redox state and oxidative stress alter gene expression to cause tissue injury. Studies submitted under this RFA are expected to determine whether alcohol exposure alters the epigenetics of the cells and tissues of exposed individuals and that of their offspring. Research projects are encouraged to determine if alcohol exposure changes the epigenetic status during pre- and post-natal development, promotes errors in the maintenance of imprinting which results in physiological and/or behavioral changes, and changes the imprinting patterns with concomitant altered gene expression. Of special interest is the identification of imprinted genes whose methylation and allelic expression are altered by maternal alcohol exposure during pregnancy and lactation. A second major focus of this RFA is to understand how fluctuations in the cellular redox state due to alcohol metabolism influence histone acetylation and the transcription or silencing of genes in adult and fetal tissues such as the liver, pancreas, brain, lung and the cardiovascular and immune systems. Studies of animal models are integral to this effort and encouraged along with studies involving human subjects.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-AA-06-004.html>.

Alcohol Metabolism and Epigenetic Effects on Tissue Injury (R21)

National Institutes of Health

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

Full Proposal: March 28, 2006

NIH solicits Exploratory/Developmental research projects on 1) the identification and characterization of epigenetic mechanisms influencing alcohol-induced diseases and 2) the mechanisms by which alcohol-induced changes in redox state and oxidative stress alter gene expression to cause tissue injury. Studies submitted under this RFA are expected to determine whether alcohol exposure alters the epigenetics of the cells and tissues of exposed individuals and that of their offspring. Research projects are encouraged to determine if alcohol exposure changes the epigenetic status during pre- and post-natal development, promotes errors in the maintenance of imprinting which results in physiological and/or behavioral changes, and changes the imprinting patterns with concomitant altered gene expression. Of special interest is the identification of imprinted genes whose methylation and allelic expression are altered by maternal alcohol exposure during pregnancy and lactation. A second major focus of this RFA is to understand how fluctuations in the cellular redox state due to alcohol metabolism influence histone acetylation and the transcription or silencing of genes in adult and fetal tissues such as the liver, pancreas, brain, lung and the cardiovascular and immune systems. Studies of animal models are integral to this effort and encouraged along with studies involving human subjects.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-AA-06-005.html>.

2006 Senior Scholar Awards in Aging

Ellison Medical Foundation

Deadlines: Letter of Intent: **March 9, 2006**; Full Proposal: By Invitation

The Ellison Medical Foundation Senior Scholar program in Aging is designed to support established investigators, working at institutions in the U.S., to conduct research in the basic biological sciences relevant to understanding aging processes and age-related diseases and disabilities. The award is intended to provide significant support to established investigators in order to allow the development of new, creative research programs by investigators who may not currently be conducting aging research or who may wish to develop new research programs in aging. The Foundation particularly wishes to stimulate new research, which has rigorous scientific foundations, but which may not be currently funded adequately, because of its perceived novelty, its high risk, or because it is from an area where traditional research interests absorb most funding. Senior Scholar awards provide funding up to \$150,000 per year for a four year period. Those submitting successful letters of intent will be invited to submit full applications.

For more information: <http://www.ellisonfoundation.org>.

Neurofibromatosis Research Program Investigator-Initiated Research Awards

Congressionally Directed Medical Research Programs (CDMRP)

U.S. Department of Defense

Deadline: **March 17, 2006**

Due to enthusiasm for the Fiscal Year 2005 (FY05) Investigator-Initiated Research Awards, the Department of Defense (DOD) Neurofibromatosis Research Program (NFRP) will be offering a second opportunity this year for individuals to compete for these awards. The NFRP plans to announce a \$3.4 million (M) initiative to support these awards in mid-December 2005. The Investigator-Initiated Research Award supports basic or clinical studies by established researchers (Assistant Professor level or higher) that will provide insight into the molecular mechanisms underlying the development of NF and lead to substantial improvements over today's approach to the diagnosis and treatment of NF1, NF2 and Schwannomatosis. In support of this goal, this award mechanism also provides funding through Nested Postdoctoral Traineeships to prepare recent doctoral graduates (3 years or less experience as a postdoctoral fellow) for a career in NF or Schwannomatosis research through a mentored training experience. Established researchers may request funding up to a maximum of \$2M inclusive of direct and indirect costs for a period of up to 4 years. Funds for Nested Postdoctoral Traineeships can be requested as part of the \$2M total. Each Traineeship can be requested for a maximum of \$60,000 per year inclusive of direct and indirect costs for a period of up to 4 years. The receipt deadline is planned for March 17, 2006. These awards will be reviewed, negotiated, and finalized no later than September 30, 2006.

For more information: <http://cdmrp.army.mil/pubs/press/05nfrpiirawards.htm>.

Biotechnology: Potential Allergenicity of Genetically Engineered Foods

U.S. Environmental Protection Agency

Deadline: **March 21, 2006**

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing to develop methods to assess the potential allergenicity of genetically engineered foods. The development of these methods will help in identifying substances that induce dietary allergy in humans and lead to improved evaluation of the relative potency of unknown proteins. Currently, the Food and Agriculture Organization of the United Nations and the World Health Organization (FAO/WHO) have proposed a decision tree to be used in assessing the potential allergenicity of novel dietary proteins. However, many of the components recommended in this decision tree have not been sufficiently developed or validated. The STAR program is issuing this request for applications (RFA) for research on appropriate methods, either within or outside the framework of the current decision tree, primarily to assess human allergenicity of proteins in genetically engineered foods and, secondarily, to improve our understanding of the basic mechanisms underlying food allergy and susceptibility to food allergy as it pertains to genetically engineered foods. Ideal methods would improve hazard identification and enhance the ability to estimate the potency of unknown proteins relative to known allergenic and non-allergenic proteins in a logistically feasible and cost effective manner. Development of methods that are further amenable to the investigation of factors that influence susceptibility for sensitization to dietary allergens are also of interest.

For more information: http://es.epa.gov/ncer/rfa/2005/2005_star_biotech.html.

PHYSICAL SCIENCES & MATHEMATICS

See also listings under MULTIPLE DISCIPLINES

Magnetospheric Multiscale Mission Interdisciplinary Science Teams

National Aeronautics and Space Administration

Deadlines: Letter of Intent: **January 20, 2006**; Full Proposal: February 17, 2006

With this amendment to ROSES-2005, NASA establishes a new program element in Appendix A.32 entitled "Magnetospheric Multiscale Mission Interdisciplinary Science Teams." This new program element solicits proposals for Interdisciplinary Science (IDS) Teams to conduct independent science investigations addressing the Magnetospheric Multiscale (MMS) mission science objectives. The science objectives of the MMS mission are to explore and understand the fundamental plasma physics processes of, primarily, magnetic reconnection, and secondarily, particle acceleration and turbulence in the Earth's magnetosphere. The MMS mission is currently in Formulation, the first of the four NASA mission phases. It is NASA's intention to announce the selection of MMS IDS Teams as soon as possible after the completion of a successful MMS Initial Confirmation Review scheduled for the spring of 2006. Notices of Intent to propose are due January 20, 2006, and proposals are due February 17, 2006.

For more information:

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={CA1A2C91-4339-9A34-1BDE-F118E7FC124F}&path=open>.

National Spatial Data Infrastructure Cooperative Agreements Program

U.S. Geological Survey

Deadline: **February 1, 2006**

The purpose of the National Spatial Data Infrastructure (NSDI) Cooperative Agreements Program (CAP) is to fund innovative projects in the geospatial data community to build the infrastructure necessary to effectively discover, access, share, manage, and use digital geographic data. The NSDI consists of the technologies, policies, organizations, and people necessary to promote cost-effective production, and the ready availability and greater utilization of geospatial data among a variety of sectors, disciplines, and communities. Specific NSDI areas of emphasis include: metadata documentation, clearinghouse establishment, framework development, standards implementation, and geographic information system (GIS) organizational coordination. A total of \$1,150,000 in funds is available for the FY 2006 program. The projects will be funded for one year. Specific information regarding the NSDI areas of emphasis and projected funding amounts is available in the complete solicitation (see link below).

For more information: <http://www.usgs.gov/contracts/FGDC/> (click on the link for “FY 2006”).

Chemistry Research Instrumentation and Facilities: Cyberinfrastructure and Research Facilities (CRIF:CRF)

National Science Foundation

Deadline: **March 1, 2006**

The Division of Chemistry of the National Science Foundation (NSF) , under the umbrella of the Chemistry Research Instrumentation and Facilities Program (CRIF), has provided support to research institutions and consortia for the establishment of regional or national instrumentation facilities, the purchase of departmental research instrumentation, and the development of state-of-the-art equipment. With the prior solicitation (05-555), the instrumentation facilities component of the CRIF Program was expanded to address the growing importance of cyber-enabled chemistry in the research endeavor. The Chemistry Research Instrumentation and Facilities: Cyberinfrastructure and Research Facilities (CRIF:CRF) Program provides funding to build a foundation for research facilities with unique capabilities in the chemical sciences. This is structured to enable NSF, through its Division of Chemistry, to respond to a variety of needs for infrastructure to support basic research and education in chemistry. NSF programs that support cyberinfrastructure, instrumentation, and facilities for other fields of research are listed in the solicitation. For FY06, CRIF:CRF is soliciting proposals **ONLY** for the cyberinfrastructure component of this program. Moreover, preference will be given to proposals that are complementary to the projects represented by the FY05 awards (CHE-0535542; CHE-0535640; CHE-0535656; CHE-0535710). Facilities proposals will not be accepted in FY06.

For more information: <http://www.nsf.gov/pubs/2006/nsf06512/nsf06512.htm>.

Advanced Technologies and Instrumentation (ATI): Special Competition: Astronomical Applications with the Advanced Electro-Optical System (AEOS) of the United States Air Force (ATI/AEOS)

National Science Foundation

Deadline: **March 20, 2006**

This special competition is to enable access by the U.S. community to the 3.67-meter Advanced Electro-Optical System (AEOS) telescope with its sophisticated adaptive optics system for astronomical research. This telescope system is made available for approximately 90 hours for observation in calendar year 2006. This special competition makes available to the U.S. astronomical community a 3.67-meter telescope with state-of-the-art passive adaptive optics for imaging through atmospheric turbulence. Seven fixed Coude rooms are available for astronomical observations with user-provided instrumentation. Alternatively, scientific observations can be made using the cameras and instruments provided on-site by the Air Force.

For more information: <http://www.nsf.gov/pubs/2006/nsf06519/nsf06519.htm>.

SOCIAL SCIENCES

See also listings under MULTIPLE DISCIPLINES

Workplace Violence Prevention Research

National Institute for Occupational Safety and Health

Centers for Disease Control and Prevention

Deadlines: Letter of Intent: **January 3, 2006**

Full Proposal: April 18, 2006

The National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC) announces the availability of funds for fiscal year (FY) 2006 to support grant (R01) applications testing interventions designed to reduce health and safety impacts associated with violence in the workplace. The purpose of this announcement is to reduce the risk of workplace violence injuries through the development and evaluation of new intervention strategies and evaluation of existing interventions. Interventions should be adaptable to a variety of workplaces. The total amount to be awarded is approximately \$1 million per year. The anticipated number of awards is 3 – 6.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-OH-06-004.html>.

A Study of the Administration of Justice in Indian Country

National Institute of Justice (NIJ)

Deadline: **January 18, 2006**

NIJ is seeking proposals for a study of the conditions of confinement in Indian Country detention facilities; the project responds to a recommendation in the U.S. House of Representatives Conference Report No. 108–792 (2004). NIJ plans to fund a 2-year project to develop case

studies about the administration of justice in Indian Country. The purpose is to understand the factors that affect conditions of confinement in Indian Country by comprehensively describing the operation of the criminal justice system (both juvenile and adult) within the unique context of Indian Country, how it varies from one jurisdiction to another, and how different criminal justice structures and systems affect the administration of justice.

For more information: <http://www.ncjrs.gov/pdffiles1/nij/sl000739.pdf> (PDF file).

Evaluation of Technologies

National Institute of Justice (NIJ)

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 practice. 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> (PDF file).

MULTIPLE DISCIPLINES

Fiscal Year 2006 Test and Evaluation (T&E) Research Program

Air Force Office of Scientific Research

Deadline: **January 5, 2006**

The tasks listed below represent basic research needs identified by the Air Force Test and Evaluation Community. AFOSR and the T&E Community agree that successful research efforts in these areas can be transitioned to the T&E Centers and will have significant impact on important challenges facing these Centers. The anticipated types of awards are grants, cooperative agreements or contracts. Each project selected will be funded at approximately \$100 K per year for a maximum of three years. Test and Evaluation Tasks of interest to AFOSR:

- Automated Calibration of Turbine Performance Simulations Using Optimum Robust Estimation of Engine Model Parameters
- Investigation of Microchannel Cooling Critical Heat Flux
- Optical Tracking Without Targets Using Digital Cameras
- Network Loading Theory for Net-Centric Warfare Applications
- Radio Communication During Directed Energy Testing
- Parameterized Reduced Order Modeling

- Research in Evaluation Methods for Data Fusion-Capable Tactical Platforms and Distributed Multi-platform Systems in Electronic Warfare and Information-Warfare Related Missions
- Hypersonic Computational Fluid Dynamics to Support Aeroelastic Analysis
- Geometry Tolerant Pseudolite Navigation System
- An Investigation into the Effects of Turbulent Length Scales on Flow Driven Diffusion Flames
- Global Characterization of Dynamic Fuel Tank
- Multi-element Antenna Phase Center Characterization

For more information:

<http://www.fedgrants.gov/Applicants/USAF/AFMC/AFOSR/AFOSR-BAA-2006/Grant.html>.

National Defense Science and Engineering Graduate Fellowship

American Society for Engineering Education

U.S. Department of Defense

Deadline: **January 6, 2006**

As a means of increasing the number of U.S. citizens and nationals trained in science and engineering disciplines of military importance, the Department of Defense (DoD) plans to award 200 new three-year graduate fellowships in April 2006, subject to the availability of funds. The DoD will offer these fellowships to individuals who have demonstrated ability and special aptitude for advanced training in science and engineering. Administered by the American Society for Engineering Education, the National Defense Science and Engineering Graduate (NDSEG) Fellowships are awarded to applicants who will pursue a doctoral degree in, or closely related to, an area of DoD interest within one of the following disciplines:

- Aeronautical and Astronautical Engineering
- Biosciences
- Chemical Engineering
- Chemistry
- Civil Engineering
- Cognitive, Neural, and Behavioral Sciences
- Computer and Computational Sciences
- Electrical Engineering
- Geosciences
- Materials Science and Engineering
- Mathematics
- Mechanical Engineering
- Naval Architecture and Ocean Engineering
- Oceanography
- Physics

For more information: <http://www.asee.org/ndseg/>.

Advanced Information Systems Technology

National Aeronautics and Space Administration (NASA)

Deadlines: Letter of Intent: **January 17, 2006**

Full Proposal: March 17, 2006

Amendment No. 36 to NASA Research Announcement “Research Opportunities in Space and Earth Sciences” has been posted on its home page Web site at <http://nspires.nasaprs.com/>. This amendment establishes a new program element in Appendix A.33 entitled “Advanced Information Systems Technology.” This new program element solicits proposals for development of selected key technologies to enable an evolution of distributed Earth system sensors and processing components into sensor webs. This AIST program solicitation will concentrate on the architecture (i.e., the design, structure, and behavior) and development of system building blocks leading to autonomous sensor webs. Scenarios are required to show the relevancy of the proposed technology to the objectives of NASA Earth science. During the course of the technology development, the awardees will be required to participate in ESTO-sponsored sensor web technology workshops to advance information sharing on components and concepts.

For more information:

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={4E7034CD-2128-CBE5-440B-99FC396CDF4C}&path=open>.

Near-Term Technology Development for Genome Sequencing

National Institutes of Health

Deadlines: Letter of Intent: **January 17, 2006**

Full Proposals: February 17, 2006

The National Human Genome Research Institute (NHGRI) solicits grant applications to develop novel technologies that will substantially reduce the cost of genomic DNA sequencing. Current technologies are able to produce the sequence of a mammalian-sized genome of the desired data quality for \$10 to \$50 million; the goal of this initiative is to reduce costs by at least two orders of magnitude. It is anticipated that emerging technologies are sufficiently advanced that, with additional investment, it may be possible to achieve proof of principle or even early stage commercialization of multiple different approaches for genome-scale sequencing within five years. This Request for Applications (RFA) funding opportunity announcement will utilize the Research Project (R01), Exploratory/Developmental Grants (R21), and Exploratory/Developmental/Phase II Exploratory/Developmental Grants (R21/R33) grant mechanisms, and runs in parallel with RFAs of identical scientific scope ([RFA-HG-06-002](#), [RFA-HG-06-003](#)) that solicit applications under the Small Business Innovation Research (SBIR [R43/R44]) and the Small Business Technology Transfer (STTR [R41/R42]) grant mechanisms. Related RFAs ([RFA-HG-06-004](#), [RFA-HG-05-005](#)) use the same grant mechanisms to solicit grant applications to reduce genomic DNA sequencing costs by four orders of magnitude. Contingent upon the availability of funds and the receipt of a sufficient number of meritorious applications, the NHGRI may make 2-7 awards and may award \$2 million in response to this RFA funding announcement (RFA-HG-05-003).

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-05-003.html>.

Revolutionary Genome Sequencing Technologies – The \$1000 Genome

National Institutes of Health

Deadlines: Letter of Intent: **January 17, 2006**

Full Proposal: February 17, 2006

The National Human Genome Research Institute (NHGRI) solicits grant applications to develop novel technologies that will enable extremely low-cost genomic DNA sequencing. Current technologies are able to produce the sequence of a mammalian-sized genome of the desired data quality for \$10 to \$50 million; the goal of this initiative is to reduce costs by at least four orders of magnitude, so that a mammalian-sized genome could be sequenced for approximately \$1,000. Substantial fundamental research is needed to develop the scientific and technological knowledge underpinning such a major advance. Therefore, it is anticipated that the long-term goals of this Request for Applications (RFA) funding opportunity announcement may be achieved in ten years. This RFA funding opportunity will utilize the Research Project (R01), Exploratory/Developmental Grants (R21), and Exploratory/Developmental/Phase II Exploratory/Developmental Grants (R21/R33) grant mechanisms, and runs in parallel with RFAs of identical scientific scope ([RFA-HG-06-004](#), [RFA-HG-06-005](#)) that solicit applications under the Small Business Innovation Research (SBIR [R43/R44]) and the Small Business Technology Transfer (STTR) grant mechanisms. Related RFAs ([RFA-HG-05-003](#), [RFA-HG-06-002](#)) use the same grant mechanisms to solicit grant applications to reduce genomic DNA sequencing costs by two orders of magnitude.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-05-004.html>.

Climactic Change Research Grants

National Institute for Climactic Change Research (NICCR)

U.S. Department of Energy

Deadlines: Preproposals: **January 18, 2006**

Full Proposals (by invitation only): March 14, 2006

The NICCR is soliciting proposals for research projects to begin during calendar 2006. Pre-proposals are required, and are due January 18, 2006. Full proposals, which will be accepted only from applicants submitting successful preproposals, are due March 14, 2006. Research topics will include:

- Effects of warming, changes in precipitation, increases in atmospheric carbon dioxide concentration and/or increases in tropospheric ozone concentration on the structure and functioning of important terrestrial ecosystems in the United States.
- Effects of potential climatic changes on the geographic boundaries of U.S. terrestrial ecosystems (or biomes), and the populations of their dominant organisms (plants, animals, and/or microorganisms).
- Use of measurements of contemporary exchanges of mass and energy between the atmosphere and terrestrial ecosystems to reduce scientific uncertainty about effects of an altered terrestrial carbon cycle and/or surface energy exchange on global and/or regional climate.

- Synthesis activities related to effects of climatic variability and change on U.S. terrestrial ecosystems, principally with a regional focus.

For more information: <http://niccr2.bio.nau.edu/NICCCR/overview.html>.

Research Fellowships Program

National Institute on Disability and Rehabilitation Research (NIDRR)
U.S. Department of Education
Deadline: **January 30, 2006**

The purpose of the Research Fellowships Program is to build research capacity by providing support to enable highly qualified individuals, including those who are individuals with disabilities, to conduct research about the rehabilitation of individuals with disabilities. Only individuals who have training and experience that indicate a potential for engaging in scientific research related to the solution of rehabilitation problems of individuals with disabilities are eligible. The program provides two categories of Research Fellowships: Merit Fellowships and Distinguished Fellowships. To be eligible for a Distinguished Fellowship, an individual must have seven or more years of research experience in subject areas, methods, or techniques relevant to rehabilitation research and must have a doctorate, other terminal degree, or comparable academic qualifications. To be eligible for a Merit Fellowship, an individual must have either advanced professional training or independent study experience in an area that is directly pertinent to disability and rehabilitation. In the most recent competitions, Merit Fellowship recipients had research experience at the doctoral level.

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

Personnel Preparation to Improve Services and Results for Children with Disabilities— Center on High Quality Personnel in Inclusive Preschool Settings: 84.325S

U.S. Department of Education (USDE)
Deadline: **January 30, 2006**

The program supports the creation of a Center on High Quality Personnel in Inclusive Preschool Settings that will support a Center that will increase the number of high quality early childhood personnel who serve preschoolers with disabilities in inclusive settings. The Center will accomplish this goal, in part, by developing State networks that are designed to improve the quality and accessibility of rigorous, on-going professional development and training opportunities that will prepare personnel to work in inclusive preschool settings. Specifically, the Center will: (1) Develop State networks that include, at a minimum, State and local early childhood program administrators (including part B section 619 coordinators, child care administrators, and Head Start State Collaboration Offices), local early care and education providers, early childhood teacher trainers (IHEs and community colleges) and technical assistance providers; (2) assist each network in developing a plan for the ongoing provision of rigorous, research-based training and professional development activities in inclusive preschool settings within a specific, ambitious timeframe; and (3) coordinate the provision of research-

based professional development and training opportunities for early childhood special educators, related services personnel, pre-Kindergarten teachers, Head Start teachers, and child care providers. USDE will reject any application that proposes a budget exceeding \$500,000 for a single budget period of 12 months.

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

Knowledge Dissemination Conference Grants

Substance Abuse and Mental Health Services Administration

U.S. Department of Health and Human Services

Deadlines: **January 31** and October 31, annually

The Substance Abuse and Mental Health Services Administration (SAMHSA) Center for Mental Health Services (CMHS), Center for Substance Abuse Prevention (CSAP), and Center for Substance Abuse Treatment (CSAT) are accepting applications for SAMHSA Knowledge Dissemination Conference Grants (also referred to as SAMHSA Conference Grants). The purpose of the Conference Grant program is to disseminate knowledge about practices within the mental health services and substance abuse prevention and treatment fields and to integrate that knowledge into real-world practice as effectively and efficiently as possible. It is not the practice of SAMHSA to provide total support for planned meetings and conferences. The maximum Conference Grant award is \$50,000 for a 12-month project period. Only direct costs will be funded under this program.

For more information: http://www.samhsa.gov/grants/2006/RFA/PA_06_001_Conference.aspx.

PVA Education Foundation Grants

Paralyzed Veterans of America (PVA) Education Foundation

Deadline: **February 1, 2006**

The PVA Education Foundation generally supports five types of projects:

Patient, Consumer, and Community Education

- Demonstration projects that seek to improve the health, independence, and quality of life of individuals with spinal cord injury or disease (SCI/D).

Professional Development and Education

- Programs that improve the knowledge and competencies of professionals providing health care and related services to the SCI/D community; or
- Fellowship/traineeship programs for professionals providing health care and related services to the SCI/D community.

Research Utilization and Dissemination

- Projects that translate research findings into practice.

Assistive Technology

- Demonstration projects that improve the identification, selection, and use of assistive devices by people with SCI/D.

Conferences and Symposia

- Meetings that provide education and opportunities for collaboration among the SCI/D community.

The maximum amount for a PVA Education Foundation grant is \$50,000 per year. Proposals may be submitted for one or two-year projects. The maximum amount for a conference grant is \$15,000 per year.

For more information: <https://v2.ramscompany.com/UPLOADS/PRDESC196.pdf> (PDF file).

Research Associateship Programs

National Academies

Deadline: **February 1, 2006**

The National Academies administers Postdoctoral and Senior Research Awards through its Associateship Programs, part of the Policy and Global Affairs Division. The Research Associateship Programs are sponsored by federal laboratories at over one hundred locations in the United States and overseas. Research Associateship awards:

- are given for the purpose of conducting research at a specific laboratory chosen by the applicant.
- are made to doctoral level scientists and engineers who can apply their special knowledge and research talents to research areas that are of interest to them and to the host laboratories and centers.
- are made to Postdoctoral Associates (within 5 years of the doctorate) and Senior Associates (normally 5 years or more beyond the doctorate).

For a complete list of participating federal laboratories see the information at the Programs website (below).

For more information: <http://www4.nationalacademies.org/pga/rap.nsf>.

Technology and Media Services for Individuals with Disabilities—Center To Support Technology Innovation for Students with Disabilities

Office of Special Education Programs

U.S. Department of Education

Deadline: **February 2, 2006**

During the past 20 years, the Office of Special Education Programs (OSEP) has funded projects that develop and study a range of assistive and instructional technologies to improve outcomes for children with disabilities. Technology innovations, however, will not result in widespread and long lasting benefits to students with disabilities unless they are shared beyond the field of special education. Commercially developed products may not benefit children with disabilities unless they are designed to meet their needs. Likewise, special education researchers and technology developers cannot draw upon technology innovations and trends unless they are aware of them. Over the past five years, OSEP has supported initiatives and sponsored communication efforts designed to bridge the gaps among researchers, developers, vendors, and other entities. Although this work has been fruitful in improving communication, a permanent

and more formal mechanism is needed. A Center would enable the array of stakeholders to develop strategic partnerships and to share cutting edge information thereby increasing innovative use of current technology while encouraging the development of new tools. This solicitation will support a Center to advance learning opportunities and achieve better results for children with disabilities by--(a) Developing and implementing a network of collaborative partnerships; (b) Promoting the distribution and use of technology-related products and approaches to improve results for children with disabilities; and (c) Tracking technology innovation developments in government, private industry, early intervention, education policy, and other sectors and analyzing existing and anticipating emerging needs, issues, and trends to foster technology innovation that will improve results for children with disabilities.

For more information: <http://www.ed.gov/programs/oseptms/applicant.html#84327z>.

Field Initiated (FI) Projects

National Institute on Disability and Rehabilitation Research (NIDRR)

U.S. Department of Education

Deadline: **February 6, 2006**

The purpose of the Field Initiated (FI) program is to develop methods, procedures, and rehabilitation technology that maximize the full inclusion and integration into society, employment, independent living, family support, and economic and social self-sufficiency of individuals with disabilities, especially individuals with the most severe disabilities; and to improve the effectiveness of services authorized under the Rehabilitation Act of 1973, as amended. FI projects carry out either research activities or development activities. NIDRR makes two types of grants under the FI program: research grants (CFDA 84.133G-1) and development grants (CFDA 84.133G-2). Applicants must indicate in their applications whether they are applying for a research grant (84.133G-1) or a development grant (84.133G-2).

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

National Network for Environmental Management Studies (NNEMS) Fellowship Program

U.S. Environmental Protection Agency (EPA)

Deadline: **February 13, 2006**

In recognition of the growing interest in environmental issues and careers, the EPA established the National Network for Environmental Management Studies (NNEMS) Fellowship Program in 1986 to encourage students to pursue environmental careers. The NNEMS program is a comprehensive fellowship program that provides students an opportunity to participate in a fellowship project that is directly related to their field of study. Each year, the NNEMS program offers approximately 40 research projects, developed and sponsored by EPA Headquarters in Washington, D.C. and in EPA's 10 regional offices and laboratories throughout the U.S. The projects are specifically narrow in scope, allowing students to complete the research project while working full-time at EPA during the summer or part-time during the school year. Typically, the research is conducted at an EPA office or laboratory, although other arrangements

can be made in certain circumstances. The research projects are organized among five key areas: Environmental Policy, Regulation, & Law; Environmental Management & Administration; Environmental Science; Public Relations and Communications; Computer Programming & Development. For more information on the specific projects see the full solicitation at the link below. Recipients of NNEMS fellowships receive a stipend based on the student's level of education and the duration and location of the project.

For more information: <http://www.epa.gov/enviroed/NNEMS/index.html>.

Rehabilitation Engineering Research Centers (RERC) on Low Vision and Blindness

U.S. Department of Education

Deadline: **February 14, 2006**

The Rehabilitation Engineering Research Centers (RERC) on Low Vision and Blindness program is authorized under the Rehabilitation Act of 1973, as amended. The purpose of this program is to award grants to eligible applicants to focus research, development, and training activities in order to enhance opportunities for meeting the needs of, and addressing the barriers confronted by, individuals with disabilities in all aspects of their lives through innovative technological solutions, new knowledge, and concepts that promote the health, safety, independence, employment, active engagement in daily activities, and quality of life. The funded Low Vision and Blindness RERC must research and develop technologies that will improve assessment of vision impairments and promote independence for individuals with low vision and blindness, including those who are deaf/blind. The maximum amount, in any year for this grant is \$950,000 and includes both direct and indirect costs.

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

3rd Annual P3 Award: A National Student Design Competition for Sustainability Focusing on People, Prosperity, and the Planet

U.S. Environmental Protection Agency

Deadline: **February 20, 2006**

The P3 competition will provide grants to teams of college students to research, develop, and design solutions to challenges to sustainability. P3 highlights people, prosperity, and the planet – the three pillars of sustainability – as the next step beyond P2 or pollution prevention. The P3 Award program is a partnership between the public and private sectors to progress toward sustainability by achieving the mutual goals of economic prosperity, protection of the natural systems of the planet, and providing a higher quality of life for its people. EPA and its partners offer the P3 Award competition to respond to the technical needs of the developed and developing world in moving towards the goal of sustainability. This announcement, which addresses the first phase of the competition for Phase I awards, requests innovative design proposals from eligible institutions to obtain support for a student team to compete for the P3 Award. In Phase I, EPA will fund approximately 50 student design projects from around the country during the 2006-2007 academic year for research and development of their sustainable

designs. Phase II will occur in the Spring of 2007 when the student teams and their faculty advisor (the Principal Investigator on the grant) will be invited to submit their completed Phase I design to compete for the P3 Award.

For more information: http://es.epa.gov/ncer/rfa/2006/2006_p3.html.

Microbial Genome Sequencing Program FY 2006

National Science Foundation and
U.S. Department of Agriculture
Deadline: **March 2, 2006**

As a collaborative, interagency effort, the National Science Foundation (NSF), and the Cooperative State Research, Education, and Extension Service (CSREES) of the U.S. Department of Agriculture invite research proposals (i) to support high-throughput sequencing of the genomes of microorganisms (including viruses, bacteria, archaea, fungi, oomycetes, protists and agriculturally important nematodes) and (ii) to develop and implement strategies, tools and technologies to make currently available genome sequences more valuable to the user community. The availability of genome sequences provides the foundation for understanding how microorganisms function and live, and how they interact with their environments and with other organisms. The sequences are expected to be available to and used by a community of investigators to address issues of scientific and societal importance including:

- novel aspects of microbial biochemistry, physiology, metabolism, development and cellular biology;
- the diversity and the roles microorganisms play in complex ecosystems and in global geochemical cycles;
- the impact that microorganisms have on the productivity and sustainability of agriculture and natural resources (e.g., forestry, soil and water), and on the safety and quality of the nation's food supply; and
- the organization and evolution of microbial genomes, and the mechanisms of transmission, exchange and reshuffling of genetic information.

A Microbial Genomics Workshop is held annually; all current awardees in this interagency program are expected to attend.

For more information: <http://www.nsf.gov/pubs/2006/nsf06513/nsf06513.htm>.

Global Learning and Observations to Benefit the Environment (GLOBE) Integrated Earth Systems Science Programs (IESSP)

National Science Foundation
Deadline: **March 8, 2006**

This program will facilitate reform in geoscience education by funding programs that connect the work of scientists to the practice of teaching and learning science in the classroom. To achieve this goal, the National Science Foundation (NSF) is seeking to establish new partnerships between GLOBE program participants and scientists associated with Integrated Earth Systems

Science Programs (IESSP), defined as major NSF- or NASA-funded research programs related to Earth system science. This solicitation seeks proposals from IESSP teams for projects that can be used to facilitate inquiry-based investigations of the environment and the Earth systems via the GLOBE program. An individual may be listed as a Principal Investigator on no more than one proposal and may be listed as a co-Investigator on no more than one other proposal.

For more information: <http://www.nsf.gov/pubs/2006/nsf06515/nsf06515.htm>.

Materials Use: Science, Engineering, and Society (MUSES)

National Science Foundation

Deadlines: **March 13, 2006** and February 7, 2007

MUSES is aimed at soliciting new multidisciplinary activities that encourage researchers in engineering, physical and life sciences, social and behavioral sciences, economics, mathematics, and education to reach beyond their disciplinary boundaries in order to address complex issues related to materials use in the environment. There are two challenges: (a) to propose exploratory research issues that are viable and (b) to create new teams of researchers with the necessary expertise who can work together.

For more information: <http://www.nsf.gov/pubs/2006/nsf06518/nsf06518.htm>.

Carbon and Water in the Earth System

National Science Foundation

Deadline: **March 15, 2006**

This solicitation invites proposals aimed at closing significant gaps in our understanding of the complex relationships between and within the global water and carbon cycles. In particular, we seek proposals that cross the interfaces of land, atmosphere and oceans. Proposals should span traditional interdisciplinary boundaries and should not duplicate efforts currently supported in NSF core programs as determined by discussion with one or more of the cognizant NSF Program Officers. Studies of related biologically or geochemically reactive substances will be considered only if they pertain directly to the carbon or water cycles. Proposers are strongly encouraged to contact a Program Officer to discuss their proposals before submission.

For more information: <http://www.nsf.gov/pubs/2006/nsf06514/nsf06514.htm>.

Broad Agency Announcement 2006-1

Air Force Office of Scientific Research (AFOSR)

Deadline: Proposals may be submitted at any time

The Air Force Office of Scientific Research (AFOSR) manages all basic research investment for the U.S. Air Force under this Broad Agency Announcement (BAA). To accomplish this task, AFOSR solicits proposals for research through this general BAA and specialized BAAs. This

BAA outlines the Air Force Defense Research Sciences. AFOSR invites proposals for research in many broad areas, outlined below.

Aerospace and Materials Sciences

Structural Mechanics; Mechanics of Materials and Devices; Unsteady Aerodynamics and Hypersonics; Turbulence and Rotating Flows; Combustion and Diagnostics; Space Power and Propulsion; Metallic Materials; Ceramic and Nonmetallic Materials; Organic Matrix Composites

Physics and Electronics

ElectroEnergetic Physics; Electromagnetic Disruption; Space Electronics; Atomic and Molecular Physics; Remote Sensing and Imaging; Optoelectronics: Components and Information Processing; Laser and Optical Physics; Quantum Electronic Solids; Semiconductor Materials; Sensors in the Space Environment; High Density Optical Memory; Space Sciences

Chemistry and Life Sciences

Polymer Chemistry; Surface and Interfacial Science; Biophysical Mechanisms; Theoretical Chemistry; Molecular Dynamics; Chronobiology; Biomimetics, Biomaterials, and Biointerfacial Sciences; Cognition and Decision; Sensory Systems; Biological Response Profiling and Assessment

Mathematics and Information Sciences

Dynamics and Control; Physical Mathematics and Applied Analysis; Computational Mathematics; Information Forensics and Process Integration for Networked Operations; Optimization and Discrete Mathematics; Signals Communication and Surveillance; Software and Systems; Information Fusion and Artificial Intelligence; Electromagnetics

Further information on each area of interest and AFOSR program officer contacts are contained in the full announcement. AFOSR technical personnel are willing to give advance opinions on any proposed research. These opinions will provide the proposer guidance prior to the start of any extensive effort in the development of a detailed proposal and are based on the assumption that there is a valid Air Force need for the suggested objectives. Prior contact with Air Force technical personnel listed in the AFOSR Research Interests Pamphlet is not required, but is encouraged.

For more information: <http://www.afosr.af.mil/index.html> (click on “Broad Agency Announcement (BAA 2006-1)”).