

Funding Opportunities Bulletin

May 2006

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

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BUSINESS

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EDUCATION

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Technology and Media Services for Individuals with Disabilities--Access to Emerging Technologies (CFDA 84.327C)

U.S. Department of Education

Deadline: **May 30, 2006**

The Individuals with Disabilities Education Act (IDEA) supports captioning and video description appropriate for use in the classroom setting of: television programs; videos; and other materials, including programs and materials associated with new and emerging technologies, such as CDs, DVDs, video streaming, and other forms of multimedia. The priority of this solicitation is to enhance learning opportunities for children with disabilities and support the development and demonstration of advances in technology to promote the accessibility of educational programs. All projects must ensure that the programming or material contains descriptions and captions. New technologies may be used, for example, to provide enhanced web, CD, or DVD delivery of programming to the student or classroom by utilizing expanded descriptions, definitions of captioned material, real-time simulations, clarification of program content, or other enhancements that may benefit students with disabilities. The Department of Education expects to make three awards for up to \$376,650/year, for project periods of up to 60 months.

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

NSF Academies for Young Scientists (NSFAYS)

National Science Foundation (NSF)

Deadlines: Letter of Intent (required): **May 31, 2006**

Full Proposal: June 30, 2006

NSF seeks to support NSFAYS Projects that will create, implement, evaluate, and disseminate effective models to attract K-8 students to prepare them for, and retain them in, science, technology,

engineering, and mathematics (STEM) disciplines, leading to an increase in the pool of students continuing in STEM coursework in high school and considering careers in STEM fields. Models must be built on sustainable partnerships of formal and informal education providers, business/industry, and Colleges of Education. The Foundation solicits highly innovative projects that expose students to innovative out-of-school time (OST) learning experiences that demonstrate effective synergies with in-school curricula, and take full advantage of the special attributes of each educational setting in synergistic ways. Projects should structure highly motivational experiences for students while providing essential STEM preparation. Professional development for classroom teachers and OST education providers will be critical to the success of NSFAYS Projects. The portfolio of NSFAYS Projects is intended to explore a variety of implementation models in urban, rural and suburban settings representing diverse student populations. This portfolio of projects, taken as a whole, should inform NSF and the broader educational community of what works and what does not, for whom, and in what settings. One NSFAYS Research and Evaluation Center will be funded to provide research and evaluation support for the NSFAYS program. It is anticipated that the Center will synthesize research emerging from the funded NSFAYS Projects and have responsibility for national dissemination of program models, findings, and best practices.

For more information: <http://www.nsf.gov/pubs/2006/nsf06560/nsf06560.htm>.

Education Policy, Finance, and Systems Research Grants

Institute for Education Science (IES)

U.S. Department of Education

Deadlines: Letter of Intent: **June 1, 2006**

Full Proposal: July 27, 2006

The IES intends for the Education Policy, Finance, and Systems (Policy/Finance) research program to address five goals (1) identifying policies, systemic programs or practices, and education finance programs or practices that are associated with more effective teaching and learning environments as indicated by better student outcomes (e.g., student learning, high school graduation and dropout rates); (2) developing new policies, education finance, and systemic practices; (3) evaluating the efficacy of education policies, education finance programs and practices, and systemic programs and practices; (4) providing evidence on the effectiveness of policies, finance programs and practices, and other systemic practices, implemented at scale; and (5) developing and testing cost accounting tools and measurement systems that will enable education administrators to link student-level resources to student-level achievement data. IES will accept proposals for different topics at two different deadlines in 2006. Topics with July 27, 2006 Transmittal Deadline:

- Reading and Writing
- Mathematics and Science Education
- Teacher Quality – Reading and Writing
- Teacher Quality – Mathematics and Science Education
- Education Leadership
- Education Policy, Finance, and Systems
- Postdoctoral Research Training

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

Special Education Research Grants

Institute for Education Sciences (IES)

U.S. Department of Education

Deadlines: Letter of Intent: **June 1, 2006**

Full Proposal: July 27, 2006

Children with disabilities are now included in state academic assessments under the No Child Left Behind Act, as well as other state and local assessment systems that are used for accountability purposes. This program addresses questions related to how assessments, measures of progress, assessment standards, and accountability provisions should be designed to capture and represent growth in high priority skills among children with disabilities. The overall goal of this program is the design and implementation of assessment systems that are valid and that provide information that can be used to promote the highest levels of achievement for all children. Applications will be accepted for the Special Education Research Grants under two competitions in 2006. For the July 27, 2006 deadline applications will be accepted for the following research topics:

- Early Intervention, Early Childhood Special Education, and Assessment for Young Children with Disabilities
- Mathematics and Science Education
- Reading, Writing, and Language Development
- Serious Behavior Disorders
- Assessment for Accountability

For more information: <http://www.ed.gov/about/offices/list/ies/programs.html> (scroll down to “84.324 Special Education Research Request for Applications”).

Education Policy, Finance, and Systems Research Grants

Institute for Education Science (IES)

U.S. Department of Education

Deadlines: Letter of Intent: **September 14, 2006**

Full Proposal: November 16, 2006

The IES intends for the Education Policy, Finance, and Systems (Policy/Finance) research program to address five goals (1) identifying policies, systemic programs or practices, and education finance programs or practices that are associated with more effective teaching and learning environments as indicated by better student outcomes (e.g., student learning, high school graduation and dropout rates); (2) developing new policies, education finance, and systemic practices; (3) evaluating the efficacy of education policies, education finance programs and practices, and systemic programs and practices; (4) providing evidence on the effectiveness of policies, finance programs and practices, and other systemic practices, implemented at scale; and (5) developing and testing cost accounting tools and measurement systems that will enable education administrators to link student-level resources to student-level achievement data. IES will accept proposals for different topics at two different deadlines in 2006. Topics with November 16, 2006 Transmittal Deadline:

- Reading and Writing

- Interventions for Struggling Adolescent and Adult Readers and Writers
- Mathematics and Science Education
- Teacher Quality – Reading and Writing
- Teacher Quality – Mathematics and Science Education
- Cognition and Student Learning
- High School Reform
- Postsecondary Education

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

Special Education Research Grants

Institute for Education Sciences (IES)

U.S. Department of Education

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- Individualized Education Programs and Individualized Family Service Plans
- Secondary and Transition Services
- Quality of Teachers and Other Service Providers
- Autism Spectrum Disorders
- Response to Intervention

For more information: <http://www.ed.gov/about/offices/list/ies/programs.html> (scroll down to “84.324 Special Education Research Request for Applications”).

ENGINEERING & COMPUTER SCIENCE

Also see listings under MULTIPLE DISCIPLINES

Technological Challenges in Hybrid Communications Systems

National Science Foundation

Deadline: **June 6, 2006**

The National Science Foundation (NSF), through the Divisions of Electrical and Communications Systems, Chemical and Transport Systems, and Design and Manufacturing

Innovations in the Directorate for Engineering, and the Office of International Science and Engineering, announces a solicitation on technological challenges in hybrid communications systems. This topic, with broad disciplinary research and educational activities, integrates wireless optical, and RF/microwave communications systems, for domain specific applications. The solicitation seeks proposals on novel concepts in hybrid communications systems including advanced photonic and wireless integrated circuits; new approaches and methodologies to develop architectures for hybrid networks; and new mathematical models to simulate the performance of components, interfaces, sub-systems, systems and interfaces to advance seamless integration of wireless optical and RF/microwave communications. An individual may participate in only one proposal, whether as PI, co-PI, or non-senior personnel.

For more information: <http://www.nsf.gov/pubs/2006/nsf06547/nsf06547.htm>.

Electronics and Electrical Engineering (EEL) Grants Program

National Institute of Standards and Technology (NIST)

Deadline: **June 30, 2006**

The Electronics and Electrical Engineering Grants Program solicits proposals to support specific programs in the areas of metrology for semiconductors (including mainstream silicon, power devices, and compound semiconductors), superconductors (including cryoelectronics and bulk superconductors), electronic instrumentation, radio-frequency technology (including microwave and millimeter-wave, antennas, and electromagnetic compatibility/interference), optoelectronics, magnetics (including bulk magnetic materials and magnetic data storage), video (including flat-panel displays), electronic commerce as applied to electronic products and devices, the transmission and distribution of electrical power, national electrical standards (fundamental, generally quantum-based physical standards), and law enforcement (clothing, communication systems, emergency equipment, investigative aids, protective equipment, security systems, vehicles, speed-measuring equipment, weapons, and analytical techniques and standard reference materials used by the public safety community).

For more information:

<http://a257.g.akamaitech.net/7/257/2422/01jan20051800/edocket.access.gpo.gov/2005/05-24424.htm>.

FINE ARTS

Arts Exchanges on International Issues Program

U.S. Department of State

Deadline: **May 11, 2006**

The Cultural Programs Division of the Office of Citizen Exchanges, Bureau of Educational and Cultural Affairs announces an open competition for grants to implement programs that utilize the arts to engage underserved youth in selected countries abroad, and foster linkages and build partnerships between U.S. and overseas non-profit arts and cultural organizations. These international arts exchange projects will encourage democracy building by demonstrating the

opportunities for freedom of thought and expression and underscoring the importance of empowerment in an open society. Proposed projects should:

- Engage U.S. and overseas artists and arts educators with young artists, underserved youth and youth influencers (including teachers, artists and community leaders) through exchange projects in which one or more artistic discipline is the core content of the program.
- Increase mutual respect and create partnerships between key professionals in arts education and youth arts programs in the United States and in other countries through multi-phased people-to-people exchange projects taking place over eighteen to twenty-four months.

Proposals will be accepted for projects in the following artistic disciplines; Film, Video and Digital Media; Performing Arts including Dance, Music, Traditional Arts and Theater; and Visual Arts including photography. Proposals will only be accepted for exchange projects with the countries listed below within the six Department of State geographic regions. Proposals that include countries not listed below will be declared technically ineligible and given no further consideration in the review process. Applicants may submit proposals for projects that encompass several of the following countries or regions: AF—Senegal, Mali, Nigeria, Kenya, Tanzania ; EAP—Burma, Cambodia, China, Thailand, Vietnam; EUR—Balkan Region [Projects should include at least three of the Balkan Countries: Albania, Bosnia/Herzegovina, Croatia, Kosovo, Macedonia, and Serbia/Montenegro], Belarus, Georgia, Turkey, Ukraine; NEA—Bahrain, Jordan, Morocco, Oman, Saudi Arabia; SCA—Bangladesh, Pakistan, Sri Lanka, Kyrgyzstan, Kazakhstan, Tajikistan, Uzbekistan; WHA—Bolivia, Brazil, Colombia and Venezuela.

For more information: <http://exchanges.state.gov/education/rfgps/mai011rfgp.htm>.

Summer Schools in the Arts

National Endowment for the Arts

Deadlines: Letter of Intent: **May 22, 2006**

Invitation to Apply Issued: The week of July 17, 2006

Formal Application Deadline: August 28, 2006

To raise the quality and availability of arts education in communities nationwide, the Arts Endowment created the Summer Schools in the Arts program. This program supports rigorous, challenging summer arts education programs that enable children and youth to acquire knowledge and skills in the arts as well as gain lifelong interests in the arts and culture. Summer arts education programs offer several advantages for quality arts learning by providing:

- Challenging and engaging arts education opportunities during the summer.
- Immersion experiences where students spend consecutive hours each day for multiple weeks.
- Comprehensive arts instruction that otherwise would not be available because of limited resources.

The Arts Endowment anticipates awarding fewer than 50 grants ranging from \$15,000 to \$35,000. All grants require a nonfederal match of at least 1 to 1. The Arts Endowment expects that the grantee will allocate no less than \$2,500 for project evaluation. In addition, the costs of travel and subsistence for one person to attend the evaluation and assessment training workshop

in Washington, DC, must be included in the project budget. Summer school programs must take place during the summer of 2007. The Arts Endowment's period of support for this program may start no earlier than April 1, 2007, and must end no later than May 31, 2008. This period of support is intended to allow for planning, evaluation, and close out as well as instructional time. An organization may submit only one application on its own behalf (including a Statement of Interest under this program) for FY 2007 funding under either these Summer Schools in the Arts guidelines or the Arts Endowment's Grants for Arts Projects guidelines.

For more information: <http://www.arts.gov/grants/apply/SummerSchools.html>.

HUMANITIES

Humanities Grants (Major and Mini)

Kansas Humanities Council

Deadlines: Summer: Preliminary Proposal: **May 12, 2006**

Full Proposal: June 9, 2006

Fall: Preliminary Proposal: September 15, 2006

Full Proposal: October 20, 2006

Humanities Grants are intended to connect people with ideas; to support projects that engage the out-of-school, general public with the humanities. Through the humanities, KHC believes all Kansans can use insights gained from history, the power of shared stories and appreciation of sense of place to bring greater meaning to our lives and strengthen our sense of community. Past humanities grants have supported lecture series, forums where public issues can be discussed from historical and philosophical perspectives, book discussions, film discussions, interpretive museum exhibitions, conferences, scholar residencies, and media projects. Major Humanities Grants are awards of above \$3,500. These are more extensive projects and are reviewed three times each year in a competitive review process. Mini Humanities Grants are awards of up to \$3,500, are smaller in scope and reviewed year-round.

For more information: <http://www.kansashumanities.org/grants/humanities/humanities.html>.

INTERNATIONAL AREA STUDIES

See listings under FINE ARTS

MEDICINE & LIFE SCIENCES

Also see listing under SOCIAL SCINECES, and MULTIPLE DISCIPLINES

Improving Patient Safety through Simulation Research

Agency for Healthcare Research and Quality (AHRQ),

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

Full Application: May 22, 2006

The Agency for Healthcare Research and Quality (AHRQ) is interested in funding research and evaluation of simulation and the roles it can play in improving the safe delivery of health care.

Simulation is described as a strategy – not a technology – to mirror, anticipate, or amplify real situations with guided experiences in a fully interactive way. Simulation can complement other organizational change methods to facilitate adoption and implementation of best practices and new technologies. In these projects, AHRQ is interested in the use of and/or adaptation of simulation tools in diverse health care settings and the evaluation of its impact on improving patient safety.

For more information: <http://grants1.nih.gov/grants/guide/rfa-files/RFA-HS-06-030.html>.

Integrated Preclinical/Clinical AIDS Vaccine Development (IPCAVD) Program (U19)

National Institutes of Health

Deadlines: Internal Competition: **May 15, 2006**

Agency deadline for LOI (NOT required): June 23, 2006

Agency deadline for Full Proposal: July 24, 2006

The purpose of the IPCAVD program is to support the more advanced stages of vaccine research and development including: Advanced stage preclinical research (such as vaccine optimization studies); Good Laboratory Practice (GLP) preclinical toxicology and safety studies; Good Manufacturing Practice vaccine production; Pre-Investigational New Drug (IND) and IND preparation and submission; and Clinical testing. The manufacture of vaccine product and the initiation of human studies over the duration of the award must be a feasible and established goal. Based on previous IPCAVD awards, the average amount of funding for individual awards will be approximately \$2M per year in direct costs. An institution may submit only one application annually; therefore KUCR will hold an internal competition to select KU's proposal from among those interested in applying. If you plan to submit an internal 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 internal 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 May 15, 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/pa-files/PA-06-286.html>.

Diabetes Research Centers (P30)

National Institutes of Health

Deadlines: Internal Competition: **May 22, 2006**

Agency deadline for LOI (NOT required): June 26, 2006

Agency deadline for Full Proposal: July 26, 2006

This RFA solicits new and competing continuation applications for Diabetes Endocrinology Research Centers (DERCs) and Diabetes Research and Training Centers (DRTC's). DERCs

support 3 primary research-related activities: biomedical research cores, a Pilot and Feasibility (P&F) program, and an Enrichment program. DRTCs possess all elements of a DERC, with additional dedicated core services and P&F awards to support research in diabetes prevention and control. An applicant for a DERC may request a project period of up to 5 years and a budget for direct costs up to \$1M per year. An applicant for a DRTC may request a project period of up to 5 years and a budget for direct costs up to \$1.25M per year. These budget limits are exclusive of (a) first year equipment costs, (b) direct costs on subcontracts for the purpose of establishing collaborations and providing access to the research infrastructure to investigators at historically black colleges and universities (HBCUs), health departments, community health centers or other agencies that focus on underserved populations to foster health disparities research in populations disproportionately affected by diabetes, and (c) F&A costs on consortium and subcontract arrangements. Investigating institutions may submit one Diabetes Center 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 May 22, 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-DK-06-012.html>.

CNS Therapy Development for Lysosomal Storage Disorders (R21)

National Institutes of Health

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

The goal of this Funding Opportunity Announcement (FOA) is to solicit applications on lysosomal storage disorders (LSDs) focused on improving CNS treatment outcomes, enhancing the effectiveness of delivery and targeting of cells, enzymes, drugs and genes into the brain, and developing novel therapeutic modalities, such as implantable biocapsules and micro-electro-mechanical systems (MEMS)-based devices. This announcement specifically encourages the transition from basic studies in LSDs to translational research for improved delivery of therapeutic cells, proteins, genes, and small molecules across the blood-brain barrier.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PAS-06-202.html>.

Developmental Biology and Regeneration of the Liver (R01)

National Institutes of Health

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

This initiative is based on the scientific recommendations proposed by the working group on developmental biology and regeneration of the liver in the recently approved trans-NIH Action

Plan for Liver Disease Research (<http://liverplan.niddk.nih.gov>). The purpose of this funding opportunity is to invite qualified scientific investigators to submit applications on liver development and regeneration to fully define the molecular and cellular mechanisms underlying these processes in health and disease and to apply these findings to developing improved therapies for liver disease.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-231.html>.

For information on the R21 mechanism of support for this solicitation:

<http://grants.nih.gov/grants/guide/pa-files/PA-06-232.html>.

Epidemiological Research on Disorders of Hearing, Balance, Smell, Taste, Voice, Speech, and Language (R01)

National Institutes of Health

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

The purpose of this Program Announcement is to encourage investigator-initiated epidemiological research focused on communication disorders of hearing, balance, smell, taste, voice, speech, and language. Approximately one of every six Americans experiences some form of communication disorder (NIDCD, 2005).

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-257.html>.

Erythroid Lineage Molecular Toolbox (R01)

National Institutes of Health

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

The National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK) announces a new program designed to stimulate research in erythroid cells. The aim of this program is to contribute to a complete description of expressed erythroid molecular biological components and to create reagents useful for study of the erythroid cell lineages. Components include genes that are expressed in erythroid cells, either during development or during differentiation, and the proteins that are translated in erythroid cells, potentially with post-translational modifications or subcellular localizations that are unique to erythroid cells. A long range goal of this program is to unify genetics and the study of function by facilitating characterization of the structure-function relationships between the expressed genes in the erythroid lineages and cell morphology, physiology, and disease phenotypes. Development of new technologies to facilitate applications of this genomic information is also encouraged.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-169.html>.

For information on the R21 mechanism of support for this solicitation:

<http://grants.nih.gov/grants/guide/pa-files/PA-06-170.html>.

Exploratory/Developmental Program for Translational Research in Muscular Dystrophy (R21)

National Institutes of Health

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

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 Funding Opportunity Announcement (FOA) 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 and access to the U1 (Cooperative Agreement) mechanism of support for this solicitation: <http://grants1.nih.gov/grants/guide/pa-files/PAR-06-203.html>.

Gene Discovery for Complex Neurological and Neurobehavioral Disorders (R21)

National Institutes of Health

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

The goal of this funding opportunity announcement (FOA) is to promote the identification of susceptibility genes for complex neurological and neurobehavioral disorders. The total project period may not exceed two years.

For more information and access to the R01 mechanism of support for this solicitation: <http://grants1.nih.gov/grants/guide/pa-files/PAS-06-204.html>.

Grants for Alzheimer's Disease Drug Discovery (R21)

National Institutes of Health

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

In this FOA, participating institutes invite qualified researchers to submit research grant applications directed toward the discovery, development, and preclinical testing in cellular, tissue, and animal models of novel compounds for the prevention and treatment of the cognitive impairment and behavioral symptoms associated with Alzheimer's disease (AD).

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PAS-06-261.html>.

Imaging - Science Track Award for Research Transition (I/START) [R03]

National Institutes of Health

Deadline: Letters of Intent: 30 days prior to submission deadline (**May 1**)

Full proposal: **June 1**, October 1, February 1

This Funding Opportunity Announcement (FOA) issued by the National Institute on Drug Abuse (NIDA), National Institutes of Health (NIH), is intended to facilitate the entry of investigators to

the area of neuroimaging, including both new investigators and established investigators seeking to adopt neuroimaging methodologies in their research programs.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PAR-06-311.html>.

Mechanisms of Alcohol-Associated Cancers (R01)

National Institutes of Health

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

The National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Cancer Institute (NCI), and Office of Dietary Supplements (ODS) invite research grant applications that will employ an integrative approach using state-of-the-art technologies to gain insight into the molecular and biochemical mechanisms by which chronic alcohol consumption leads to the development of cancers of various organs such as oral cavity, pharynx, larynx, esophagus, stomach, large intestine, liver, and breast. This includes investigating roles of various factors such as acetaldehyde, cytochrome P450 2E1 (CYP2E1), vascular endothelial growth factor (VEGF), impaired immune function, and alcohol-induced impaired metabolism of S-adenosylmethionine (S-AdoMet), folate, betaine, iron, and vitamin A.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-269.html>.

For information on the R21 mechanism of support for this solicitation:

<http://grants1.nih.gov/grants/guide/pa-files/PA-06-270.html>.

Memory T Lymphocytes in Cancer Immunology

National Institutes of Health

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

This funding opportunity announcement (FOA) solicits Exploratory/Developmental (R21) grant applications from applicant organizations that propose to conduct basic research studies that are relevant to anti-tumor immunity and that are focused on memory T lymphocytes and/or the cells and molecules that interact with memory T lymphocytes. Such research may include investigations of T memory cell differentiation, maintenance, and re-activation. Investigations may entail both human and animal studies, and both in vitro and in vivo analyses. Innovative uses of existing technologies and reagents, as well as the development of new technologies and reagents, are encouraged. We anticipate that the results of such research will ultimately improve the prospects for successful cancer immunotherapies and cancer vaccine development.

For more information (and information on the R21 mechanism of support):

<http://grants1.nih.gov/grants/guide/pa-files/PA-06-350.html>.

Neurovascular Mechanisms of Brain Function and Disease (R21)

National Institutes of Health

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

The National Institute of Neurological Disorders and Stroke (NINDS) invites applications for studying the integration of neurobiological and cerebrovascular mechanisms in the adult, aged and pediatric brain in health and disease.

For more information (and access to the R01 mechanism of support for this solicitation):
<http://grants1.nih.gov/grants/guide/pa-files/PAS-06-200.html>.

NINDS Exploratory/Developmental Projects in Translational Research (R21)

National Institutes of Health

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

National Institute of Neurological Disorders and Stroke (NINDS) requests applications for exploratory/developmental projects intended to discover potential targets for therapeutic intervention, to identify candidate therapeutics, to develop assays, animal models, devices, or technologies for screening or developing therapeutics, or to obtain preliminary data on the efficacy of candidate therapeutics. This FOA will utilize the (NIH) exploratory/developmental (R21) award mechanism, but runs in parallel with three other program announcements recently released by NINDS. No basic/mechanistic Aims may be included in the research plan.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-189.html>.

Pancreatic Development and Regeneration: Toward Cellular Therapies for Diabetes (R01)

National Institutes of Health

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

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) invites applications to understand how endogenous pancreatic beta cells are made by studying pancreatic development, with the goal of making pancreatic islets in culture, to explore the potential of animal or human stem/progenitor cells (embryonic or adult; if human embryonic, only NIH approved human embryonic stem cell lines may be used) as a source for making pancreatic islets, and to determine the basic mechanisms underlying beta cell regeneration in the adult as a basis for producing new cellular therapies for diabetes. This PA is intended to stimulate the application of advances made in developmental biology, stem cell biology, and diabetes to develop new strategies for diabetes therapy, either through cell replacement or regeneration. This PA is intended to intensify investigator-initiated research, to attract new investigators to the field, and to encourage interdisciplinary approaches to research in this area.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-271.html>.

For information on the R21 mechanism of support for this solicitation:

<http://grants1.nih.gov/grants/guide/pa-files/PA-06-272.html>.

Pilot and Feasibility Program in Hematologic Diseases (R21)

National Institutes of Health

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

The primary intent of this initiative is to encourage new, exploratory and developmental research projects by providing support for the early stages of their development. For example, such

projects could assess the feasibility of a novel area of investigation or a new experimental system that has the potential to enhance health-related research. The R21 is intended to foster research by newly independent investigators or by established investigators developing a new line of research. Information thus obtained would allow subsequent submission of R01 applications focusing on research problems relevant to the study of hematologic diseases and their complications.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-150.html>.

Science and Ecology of Early Development (SEED)

National Institutes of Health

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

This Funding Opportunity Announcement (FOA), jointly issued by the Demographic and Behavioral Sciences Branch (DBSB) and the Child Development and Behavior Branch (CDBB) of the National Institute of Child Health and Human Development (NICHD) and the National Institute on Drug Abuse (NIDA), invites research grant applications that seek to develop a comprehensive program of research focused on the mechanisms through which social, economic, cultural, and community-level factors, and their interactions, impact the early cognitive, neurobiological, socio-emotional, and physical development of children.

For more information (and information on the R03 mechanism of support):

<http://grants2.nih.gov/grants/guide/pa-files/PA-04-113.html>.

Testing Stem Cell Therapy in Mouse Models of Premature Aging (R21)

National Institutes of Health

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

The National Institute on Aging (NIA) is encouraging applications that explore the potential use of stem cell therapy in basic aging research. Stem cells are currently viewed as a promising venue in the treatment of a variety of lesions and pathologies, but their possible role in ameliorating the quality and/or extent of life in aged, otherwise healthy organisms has not been tested. The purported ability of some stem cells to migrate and “home” in tissues in need of repair makes them an extremely attractive target in basic aging research. This Funding Opportunity Announcement (FOA) encourages applications that test stem cell therapy in mouse models of accelerated aging, defined as mouse strains in which a genetic or other manipulation results in a shortened lifespan, and an accelerated appearance of a significant subset of age-related pathologies.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-137.html>.

For more information on the R01 mechanism of support for this solicitation:

<http://grants.nih.gov/grants/guide/pa-files/PA-05-136.html>.

Understanding and Preventing Brain Tumor Dispersal (R21)

National Institutes of Health

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

The goal of this Funding Opportunity Announcement (FOA) is to promote studies that 1) identify the properties of brain tumor cells that cause them to migrate; 2) determine how interaction of tumor cells with normal brain elements affects migration; and 3) translate understanding of these parameters into interventions that target invading tumor cells.

For more information (and access to the R01 mechanism of support for this solicitation):
<http://grants1.nih.gov/grants/guide/pa-files/PAS-06-201.html>.

Regional Environmental Monitoring and Assessment Program

U.S. Environmental Protection Agency

Deadline: **June 13, 2006**

The purpose of the solicited research is to provide States and Tribes with methods and approaches for incorporating statistically valid ecological monitoring data into their environmental decision making. For the 2006 solicitation, EPA is seeking proposals which meet specific priority needs within EPA's Regions 3, 4, 6, and 7. These include:

- The use of probabilistic monitoring to develop a Fish Index of Biotic Integrity (IBI) as an indicator of biological condition in large warm water streams of Pennsylvania's Atlantic slope. (Region 3).
- Monitoring and Assessment of Wetlands in the Mid-Atlantic States of Region 3 using a stratified, statistically-valid sample survey design that will allow extrapolation of wetland condition throughout ecological regions of the Mid-Atlantic.
- Assessment of the extent, condition and environmental significance of headwater streams in the Appalachian eco-regions at risk from mountaintop surface coal mining operations. (Region 4).
- The use of a probabilistic approach to answer questions about the condition and fate of geographically isolated wetlands in coastal plain regions of the southeast in Region 4.
- The use of a probabilistic design to assess the condition of streams in the Western Gulf Plains Eco-region of Louisiana that will facilitate the refinement of existing aquatic life use categories and water quality criteria. (Region 6).
- Using a probabilistic sample design approach to assess the condition of the major large tributaries of the Missouri and Mississippi Rivers in Region 7.
- The use of a probabilistic design to assess and characterize fish tissue contamination in water bodies, especially lakes, in Region 7.

EPA expects to make 2 awards in Region 3 and 1 in each of Regions 4, 6, and 7. Awards may be made in full or in increments at the discretion of EPA and is dependent on the timing and amount of future EPA appropriations and allocations to the REMAP program. Projects are typically funded for 2 years with annual increments of \$192,000 per year.

For more information: <http://www.epa.gov/emap/remap/html/projects/2006RFA.pdf> (PDF File).

Plant Genome Comparative Sequencing Program (PGCSP)

National Science Foundation

Deadline: **June 16, 2006**

The goal of this program is to support the development of genome sequence resources that would contribute to a conceptual framework for the interpretation of the structure, function and evolution of genomes of economically important plants. Projects are solicited that focus on a biological question that is enabled by the proposed sequence resources and was unanswerable with existing resources. Proposers must provide clear justification for the plant or plants selected and the type of resource to be generated. Projects should also advance the goals of the Plant Genome Research Program (PGRP). Types of sequence resource to be supported include, but are not limited to, whole genome sequences of varying coverage, survey sequences (including gene-enriched and end sequences of large insert clones), as well as Expressed Sequence Tags (ESTs). Plant sequencing targets may include, but are not limited to, key nodes of plants in the tree of Life, members of a specific taxon, genus or family, or intraspecific populations.

For more information: <http://www.nsf.gov/pubs/2006/nsf06555/nsf06555.htm>.

Consequences of Global Change for Air Quality

U.S. Environmental Protection Agency

Deadline: **June 20, 2006**

The Environmental Protection Agency (EPA) Office of Research and Development (ORD), National Center for Environmental Research (NCER), in cooperation with the EPA Global Change Research Program, announces an extramural funding competition supporting research into the consequences for air quality of global change - including climate, climate variability, land-use, economic development, and technology. EPA is interested in analysis of pollutant emissions related to tropospheric ozone, particulate matter, and mercury that may be altered by future global changes. A better understanding of the consequences of global change for regional air quality will be useful for both fully accounting for the impacts of global change and for state and local government emission control strategies to meet air quality standards. Potential funding per grant will be \$900,000, including direct and indirect costs, with a project duration of 3 or 4 years.

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

NIDCD Translational Research Grants (R21)

National Institutes of Health

Deadlines: Letters of Intent Receipt Date(s): **June 22, 2006**; January 22, 2007

Full Application Submission Dates(s): July 22, 2006; February 22, 2007

The purpose of the Funding Opportunity Announcement (FOA) issued by the National Institute on Deafness and Other Communication Disorders (NIDCD), National Institutes of Health (NIH), is to encourage applications in translational research in the NIDCD mission areas of hearing,

balance, smell, taste, voice, speech, and language. The intent of this Program Announcement with Special Review (PAR) funding opportunity is to provide a new avenue for basic scientists and clinicians or clinical scientists to jointly explore, initiate, and conduct translational research projects. The scope of this funding opportunity includes a range of activities to encourage translation of basic research findings to have a practical impact on the diagnosis, treatment, and prevention of communication disorders. Multi-institutional, multi-disciplinary, and academic-industrial collaborations studies are encouraged. This funding opportunity is not intended for outcome studies, the extension of ongoing clinical research studies, or the optimization of current clinical protocols. This FOA will use the NIH Exploratory/Developmental Research Grant (R21) award mechanism and runs in parallel with a FOA of identical scientific scope, PAR-05-023, that solicits applications under the Research Project (R01) grant mechanism.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PAR-06-095.html>.

PHYSICAL SCIENCES & MATHEMATICS

Also see listings under MULTIPLE DISCIPLINES

Central Production of Hydrogen from Coal

U.S. Department of Energy

Deadline: **June 8, 2006**

Hydrogen is viewed as a potential energy carrier for the future. Its ability to transform its intrinsic energy to fuel transportation, power generation, and industrial processes with only water as a by product makes it an efficient and clean fuel to meet growing energy demands against an increasing awareness for environmental preservation. The large scale production of hydrogen from coal is faced with several challenges that must be overcome before its widespread use becomes a reality. In FY 2004, DOE's Office of Fossil Energy (FE) initiated the Hydrogen from Coal Research, Development, and Demonstration (RD&D) Plan to support the President's Hydrogen Fuel Initiative, the Hydrogen Posture Plan, and the FutureGen project. This funding opportunity announcement requests applications for research and development relating to the Central Production of Hydrogen from Coal element of the Hydrogen from Coal RD&D Plan and focuses on the following two areas of interest: Area of Interest 1 –Development and Scale-Up of Novel Polishing Filter Materials and Devices; Area of Interest 2- Process Intensification.

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/AF7B6FB2719FFA398525713F0061E230?OpenDocument>.

Computational Science Training for Undergraduates in the Mathematical Sciences

National Science Foundation

Deadlines: **June 27, 2006**; October 17, annually thereafter

The goal of Computational Science Training for Undergraduates in the Mathematical Sciences (CSUMS) is to enhance computational aspects of the education and training of undergraduate students in the mathematical sciences -- mathematics and statistics -- and to better prepare these students to pursue careers and graduate study in fields that require integrated strengths in

computation and the mathematical sciences. The core of the activity is long-term research experiences for cohorts of at least six undergraduates. Projects must focus on research topics that require interplay between computation and mathematics or statistics. They should expose students to contemporary mathematics, statistics, and computation, addressed with modern research tools and methods. That is, projects must be genuine research experiences rather than rehearsals of research methods. Interdisciplinary projects are encouraged, and appropriate mentorship from the disciplines involved is welcomed. In addition, we expect that projects will strengthen the research and education capacity, infrastructure, and culture of the participating institutions. To this end, we welcome projects that create models for education in the mathematical sciences and influence the direction of academic programs for a broad range of students. CSUMS is a joint effort of the Education and Human Resources (EHR) and the Mathematical and Physical Sciences (MPS) directorates at the National Science Foundation.

For more information: <http://www.nsf.gov/pubs/2006/nsf06559/nsf06559.htm>.

Coupling, Energetics, and Dynamics of Atmospheric Regions (CEDAR)

National Science Foundation

Deadlines: **July 10, 2006**; May 10, annually thereafter

CEDAR is a broad-based, community-initiated, upper atmospheric research program. The goal is to understand the behavior of atmospheric regions from the middle atmosphere upward through the thermosphere and ionosphere into the exosphere in terms of coupling, energetics, chemistry, and dynamics on regional and global scales. These processes are related to the sources of perturbations that propagate upward from the lower atmosphere as well as to solar radiation and particle inputs from above. The activities within this program combine observations, theory and modeling.

For more information: <http://www.nsf.gov/pubs/2006/nsf06561/nsf06561.htm>.

EarthScope

National Science Foundation

Deadline: **July 16**, annually

EarthScope is an Earth science program to explore the 4-dimensional structure of the North American continent. The EarthScope Program provides a framework for broad, integrated studies across the Earth sciences, including research on fault properties and the earthquake process, strain transfer, magmatic and hydrous fluids in the crust and mantle, plate boundary processes, large-scale continental deformation, continental structure and evolution, and composition and structure of the deep-Earth. In addition, EarthScope offers a centralized forum for Earth science education at all levels and an excellent opportunity to develop cyberinfrastructure to integrate, distribute, and analyze diverse data sets. The nucleus of the Program is the EarthScope Facility, consisting of the Plate Boundary Observatory (PBO), the San Andreas Fault Observatory at Depth (SAFOD), and the USArray. The EarthScope Facility is a multi-purpose array of instruments and observatories that will greatly expand the observational

capabilities of the Earth Sciences and permit us to advance our understanding of the structure, evolution and dynamics of the North American continent. The Facility is designed to continually incorporate technological advances in geophysics, seismology, geodesy, information technology, drilling technology, and downhole instrumentation. This Solicitation calls for single or collaborative proposals to conduct scientific research associated with the EarthScope Facility and support activities that further the scientific and educational goals of EarthScope.

For more information: <http://www.nsf.gov/pubs/2006/nsf06562/nsf06562.htm>.

SOCIAL SCIENCES

Also see listings under MEDICINE & LIFE SCIENCES and MULTIPLE DISCIPLINES

Child Care Bureau Research Scholars

Administration on Children, Youth and Families

Department of Health & Human Services

Deadlines: Letter of Intent (encouraged): **April 24, 2006**

Full Proposal: May 23, 2006

The purpose of this program is to help develop a national infrastructure for high-quality child care policy research by increasing the number of upcoming researchers investigating child care issues consistent with the Bureau's research goals. The specific goals of the Child Care Research Scholar Grants are: 1. To directly support students' graduate training and professional development as researchers engaged in child care policy-relevant research; 2. To foster formal mentoring relationships between faculty members and graduate students who are pursuing doctoral-level research in the child care field; 3. To encourage active communication, networking, and collaboration among graduate students, their mentors, and other prominent child care researchers; 4. To encourage active communication, networking, and collaboration among graduate students, their mentors, and policymakers. understanding of child care policies and practices. CCB is interested in research proposals in the following areas:

- What is the impact of State- and local-level child care subsidy and administrative policies on low-income parent's ability to obtain non-parental child care for their children in order to secure and maintain employment?
- How do eligibility, co-payment, and reimbursement rate-setting policies and practices at the State and local levels impact access and affordability to a range of child care settings that meet the needs of low-income, working families?
- What are the effects of incentives and other initiatives on increasing the supply of child care for special populations (e.g., language, ethnic and racial minorities, children with special needs, and infants and toddlers)?
- What are cost-effective strategies (e.g., professional development interventions, child care environment improvement strategies) to improve child care quality, which support children's healthy development and family well-being?

Applicants must address at least one of these four research questions.

For more information: <http://www.acf.hhs.gov/grants/open/HHS-2006-ACF-ACYF-YE-0010.html>.

University Centers for Excellence in Developmental Disabilities Education, Research, and Service (UCEDDs)

Administration on Developmental Disabilities (ADD)

U.S. Department of Health and Human Services

Deadlines: Letter of Intent: **May 11, 2006**

Full Proposal: May 26, 2006

The Administration on Developmental Disabilities (ADD) within the Administration for Children and Families (ACF), U.S. Department of Health and Human Services (HHS) announces the availability of Fiscal Year (FY) 2006 funds to award grants to support the expansion of the National Network of University Centers for Excellence in Developmental Disabilities Education, Research, and Service (UCEDDs). The Developmental Disabilities Assistance and Bill of Rights Act authorizes the expansion of the National Network of UCEDDs, ‘... for States or populations that are unserved or underserved by Centers due to such factors as (1) population; (2) a high concentration of rural or urban areas; or (3) a high concentration of unserved or underserved populations.’ Applicants should have expertise in addressing the health disparities and education issues of ethnic and racial minority groups. This funding opportunity will support the administration and operation of up to three new UCEDDs that are interdisciplinary education, research, and public service units of universities, or public or not-for-profit entities associated with universities that engage in four core functions (e.g., interdisciplinary pre-service preparation and continuing education; exemplary community services, programs and technical assistance; research; and information dissemination) addressing, directly or indirectly, one or more of the areas of emphasis (e.g., quality assurance, education and early intervention, child care, health, employment, housing, transportation, recreation, and other services available or offered to individuals in a community, including formal and informal community supports, that affect their quality of life). Successful applicants must be able to demonstrate the capacity or the development of the capacity to fully implement the UCEDD four core functions.

For more information: <http://www.acf.hhs.gov/grants/open/HHS-2006-ACF-ADD-DD-0096.html>.

Behavioral Science Track Award for Rapid Transition (B/START) (R03)

National Institutes of Health

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

This Funding Opportunity Announcement (FOA) issued by the National Institute on Drug Abuse (NIDA), National Institutes of Health (NIH), seeks to facilitate the entry of beginning investigators into the field of behavioral science research related to drug abuse. To be appropriate for a B/START award, research must be primarily focused on behavioral processes and research questions. Budgets for direct costs up to \$50,000 for a project period of one year only may be requested.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PAR-06-300.html>.

Effect of Racial and Ethnic Discrimination/Bias on Health Care Delivery

National Institutes of Health

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

The purposes of this Program Announcement (PA) are: (1) to improve the measurement of racial /ethnic discrimination in health care delivery systems through improved instrumentation, data collection and

statistical/analytical techniques; (2) to enhance understanding of the influence of racial/ethnic discrimination in health care delivery and its association with disparities in disease incidence, treatment and outcomes among disadvantaged racial/ethnic minority groups; and (3) to reduce the prevalence of racial/ethnic health disparities through the development of interventions to reduce the influence of racial/ethnic discrimination on health care delivery systems in the United States.

For more information (and information on the R03 and R21 mechanisms of support):
<http://grants.nih.gov/grants/guide/pa-files/PA-05-006.html>.

Decision Making in Health: Behavior Maintenance

National Institutes of Health

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

The purpose of this initiative is to invite applications for research projects that will expand our knowledge of basic decision-making processes underlying initiation and long-term maintenance of healthy lifestyle behaviors that may reduce one's risk of cancer and other chronic diseases, such as cardiovascular disease, diabetes, and addiction. The NCI, NIDA, and NIAAA encourage collaborations between basic judgment and decision-making researchers, and applied cancer control or addiction researchers that will elucidate the basic cognitive and affective processes involved in decisions that are made repeatedly over time, such as adhering to weight-loss programs or smoking cessation programs.

For more information (and information on the R21 mechanism of support):
<http://grants.nih.gov/grants/guide/pa-files/PA-05-016.html>.

Drug Abuse Prevention Intervention Research

National Institutes of Health

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

The goals of this program announcement are to encourage investigations of cognitive, behavioral, and social processes as they relate to: 1) the development of novel drug abuse prevention approaches; 2) the efficacy and effectiveness of newly developed and/or modified prevention programs; 3) the processes associated with the selection, adoption, adaptation, implementation, sustainability, and financing of empirically validated interventions; and 4) methodologies appropriate for studying complex aspects of prevention science.

For more information (including R03 and R21 mechanisms of support):
<http://grants.nih.gov/grants/guide/pa-files/PA-05-118.html>.

Methodology and Measurement in the Behavioral and Social Sciences

National Institutes of Health

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

The goal of this program announcement is to encourage research that will improve the quality and scientific power of data collected in the behavioral and social sciences, relevant to the missions of the participating NIH Institutes and Centers. The participating Institutes and Centers

invite qualified researchers to submit research grant applications aimed at improving and developing methodology and measurement in the behavioral and social sciences through innovations in research design, data collection techniques, measurement, and data analysis techniques. Research that addresses methodology and measurement issues in diverse populations, issues in studying sensitive behaviors, issues of ethics in research, issues related to confidential data and the protection of research subjects, and issues in developing interdisciplinary, multimethod, and multilevel approaches to behavioral and social science research is particularly encouraged, as are approaches that integrate behavioral and social science research with biological, physical, or computational science research or engineering.

For more information (and information on the R03 and R21 mechanisms of support):

<http://grants.nih.gov/grants/guide/pa-files/PA-05-090.html>.

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

National Institutes of Health

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

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.

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

For more information on the R21 mechanism of support for this solicitation:

<http://grants1.nih.gov/grants/guide/pa-files/PA-06-234.html>.

For information on the R03 mechanism of support for this solicitation:

<http://grants.nih.gov/grants/guide/pa-files/PA-06-233.html>.

Retirement Economics

National Institutes of Health

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

The National Institute on Aging (NIA) invites applications for research on retirement economics. The research objectives of this funding opportunity announcement (FOA) include, but are not limited to: (1) the determinants of retirement behavior, (2) the variation in work patterns in later life, (3) the evolution of health and economic circumstances of individuals through retirement and into later life, (4) time use and life satisfaction before and during retirement, (5) the implications of retirement trends, (6) retirement expectations, (7) international comparisons of retirement and (8) the development of innovative retirement modeling techniques.

For more information (and information on the P01, R03 and R21 mechanisms of support):

<http://grants.nih.gov/grants/guide/pa-files/PA-05-036.html>.

Women's Mental Health and Sex/Gender Differences Research

National Institutes of Health

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

This Funding Opportunity Announcement (FOA) invites research grant applications on women's mental health and sex/gender differences in mental health across the lifespan. The epidemiology and disability burden of mental disorders provide clear evidence of the value of a focus on sex differences research. There are differences in both the prevalence and clinical course of mental disorders between men and women.

For more information (and information on the R21 mechanism of support):

<http://grants1.nih.gov/grants/guide/pa-files/PA-06-333.html>.

Cognitive Neuroscience

National Science Foundation

Deadlines: **July 14** and January 14, annually

Cognitive neuroscience has emerged in the last decade as an intensely active and influential discipline, forged from interactions among the cognitive sciences, neurology, neuroimaging (including physics and statistics), physiology, neuroscience, psychiatry, and other fields. Of particular importance for this discipline have been new methods for non-invasive functional neuroimaging of humans performing psychological tasks. As this field is reaching maturity, the National Science Foundation intends for the new cognitive neuroscience emphasis to spur the development of highly novel techniques and models directed toward enabling basic scientific understanding of a broad range of issues involving brain, cognition, and behavior. The emphasis at NSF will be placed on integration of the cognitive sciences, social and economic sciences, and engineering in service of insights into healthy functions of brain, cognition, and behavior.

For more information: <http://www.nsf.gov/pubs/2006/nsf06557/nsf06557.htm>.

Mechanism for Time-Sensitive Research Opportunities

National Institutes of Health

Deadlines: Letter of Intent: **Four (4) weeks prior to submission date**

Full proposal: The 9th of each month

This PA is intended to support public mental health and/or substance abuse services research in rapidly evolving areas (e.g., changes in service systems, health care financing, policy, etc) where opportunities for empirical study are, by their very natures, only available through expedited award of support. There are three distinguishing features of an eligible study: 1) the study's scientific value and feasibility are clear, 2) rapid review and funding are required in order for the scientific question to be answered and for the research design to be carried out, and 3) the knowledge gained from the study cannot be obtained through the regular NIH cycle of review and award. It should be clear that the research question offers an uncommon and scientifically

significant services research opportunity that could only become available if the project is initiated with minimum delay.

For more information (and information on the R03, R21 and R34 mechanisms of support):
<http://grants.nih.gov/grants/guide/pa-files/PAR-05-150.html>.

MULTIPLE DISCIPLINES

Basic Research Program in Chemical, Biological, Radiological and Nuclear Defense of the Joint Science and Technology Office, Physical Science and Technology Division – 2007

U.S. Army Research Office

Deadlines: White Papers (NOT required): **April 27, 2006**

Full Proposal: June 20, 2006

The U.S. Army Research Office (ARO) announces the availability of Broad Agency Announcement (BAA) No. W911NF-06-R-0005 for Basic Research Program in Chemical, Biological, Radiological and Nuclear Defense of the Joint Science and Technology Office, Physical Science and Technology Division – 2007. The BAA sets forth basic research areas of interest to the Physical Science and Technology Basic Research Program of the Joint Chemical and Biological Defense Program. Basic research is systematic study directed toward greater knowledge or understanding the fundamental aspects of phenomena and has the potential for broad, rather than specific, application. Proposals for basic research are solicited in the following sciences: Atmospheric and Space Sciences, Biological and Life Sciences, Chemistry, Cognitive and Neural Sciences, Computing and Information Science, Electronics, Mathematical Science, Materials Science, Mechanical Science, Physics, Terrestrial and Ocean Sciences, and Nanoscience. The BAA provides specific interests within each of the sciences listed above along with instructions for white paper and full proposal preparation and submission. White papers are encouraged but are not required. White papers are due by 4:00 PM Eastern Daylight Saving Time on April 27, 2006. Full proposals are due by 4:00 PM Eastern Daylight Saving Time on June 20, 2006.

For more information: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=8734>.

Effects of a Transition to a Hydrogen Economy on Employment in the United States

U.S. Department of Energy

Deadline: **May 2, 2006**

The use of hydrogen as an energy carrier will bring about significant changes in the United States. During the transition to the hydrogen economy, it is expected that new employment will be generated as a result of the growth of the hydrogen industry, which is likely to impact the current workforce in all energy-related industries. Although the hydrogen economy may be several years away from full implementation, to smooth the transition, it is essential to understand its potential effects on overall employment in the United States. Proposals are sought

to analyze the possible effects of a transition to a hydrogen economy on overall employment in the United States. Deliverables should include the following analyses:

- New jobs created to support the hydrogen economy
- Replacement effects of new goods and services on current industries
- Near-term and long-term impacts from international competition
- Workforce training requirements
- Multiple possible fuel cycles, including usage of raw materials
- Rates of market penetration of technologies
- Regional variations based on geography.

The study should consider various market penetration scenarios and infrastructure deployment pathways. End-use technologies should include transportation, and stationary and portable power applications. Applicants should discuss the methodologies that will be employed in completing the study, as well as the approach to defining the underlying assumptions and boundaries that will be used. The first draft of the report will be due no later than October 2, 2006. The final report will be due no later than October 31, 2006. Approximately \$750,000 is expected to be for one grant under this solicitation.

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/7346515D0BD8B12685257139005D1394?OpenDocument>.

Alliances for Broadening Participation in STEM (ABP)

Program Track: Bridge to the Doctorate (BD)

National Science Foundation

Deadline: **May 5, 2006**

The two programs and one supplemental activity included under the Alliances for Broadening Participation in Science and Engineering (ABP) solicitation seek to increase the number of students successfully completing quality degree programs in science, technology, engineering and mathematics (STEM). Particular emphasis is placed on supporting groups that historically have been underrepresented in STEM: African Americans, Alaskan Natives, American Indians, Hispanic Americans and Native Pacific Islanders. ABP support begins at the baccalaureate level with the Louis Stokes Alliances for Minority Participation (LSAMP) program. For eligible students, significant financial support is continued for two years of graduate study via the Bridge to the Doctorate (BD) activity. BD awards are only given as supplements to LSAMP awards. Rounding out the ABP cluster are Alliances for Graduate Education and the Professoriate (AGEP), which further the graduate education of minority students through the doctorate level, preparing them for fulfilling opportunities and productive careers as STEM faculty and research professionals (see separate announcements for the AGEP—Internal Competition Due: May 8, 2006—and LSAMP—Due to NSF October 15, 2006—programs below).

For more information: <http://www.nsf.gov/pubs/2006/nsf06552/nsf06552.htm>.

Alliances for Broadening Participation in STEM (ABP)

Program Track: Alliances for Graduate Education and the Professoriate (AGEP)

National Science Foundation

Deadlines: Internal Competition: **May 8, 2006**

Letter of Intent to NSF (REQUIRED): June 15, 2006

Full Proposal to NSF: June 30, 2006

The programs and activity encompassed by ABP provide complementary support to institutions of higher learning and minority students seeking baccalaureate and advanced degrees in STEM disciplines (including social sciences). Program goals are accomplished principally through the formation of alliances among institutions of higher education and between academe, industry and the community. Specific objectives of AGEP are: (1) to develop and implement innovative models for recruiting, mentoring, and advancing minority students in STEM doctoral programs, and (2) to develop effective strategies for identifying and supporting underrepresented minorities who want to pursue academic careers. It is anticipated that 1-2 AGEP awards of up to \$5M over 5 years will be made. AGEP proposals are limited to alliances consisting of two or more doctoral degree-granting institutions serving STEM graduate education needs. The Provost or Graduate Dean of the lead institution should serve as the Principal Investigator. Only one proposal may be submitted per alliance. Individuals considering a pre-proposal, please contact KUCR's training coordinator, John Augusto (jaugusto@ku.edu, 864-7351), to discuss this initiative as soon as possible. Also please alert Barbara Earl (bearl@ku.edu, 864-7781) that you will be submitting a pre-proposal at least one week prior to the internal deadline. 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 May 8, 2006. 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://www.nsf.gov/pubs/2006/nsf06552/nsf06552.htm>.

Research and Development for On-Board Vehicular Hydrogen Storage

U.S. Department of Energy

Deadlines: Preliminary Application (required): **May 10, 2006**

Full Proposal (by invitation): September 8, 2006

The Department of Energy (DOE) is soliciting applications with the objective of supporting the President's Hydrogen Fuel Initiative in developing a pathway to a hydrogen economy. To support this initiative, this DOE Hydrogen Program Funding Opportunity Announcement seeks to fund the research and development of viable hydrogen storage technologies for on-board vehicular applications. Applications are requested in the following two categories:

- Category 1: Applications are sought for projects that are supportive of and complementary to the activities of any of the existing Hydrogen Storage Centers of Excellence in Metal Hydrides, Chemical Hydrogen Storage, and Carbon-Based Materials. Such projects must help establish important new technical approaches or capabilities not

presently available at the Centers. A funded project may become a Center partner, provided that the applicant signs an existing non-disclosure agreement that has been signed by each of the existing Center partners.

- Category 2: Applications are sought for independent research and development projects that address one of three technical topics: 1) Materials Discovery; 2) Engineering Science; or 3) Systems, Safety and Environmental Analyses.

Please note that there is a Preliminary Application phase and a Final Application phase. Preliminary Applications are due 5/10/06. The Final Application, due by 9/8/06, is by invitation only.

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/53A7A27BA6C302DB8525713E007E32A3?OpenDocument>.

Environmental Remediation Sciences Program Integrated Field-Scale Subsurface Research Challenge

U.S. Department of Energy

Deadlines: Preapplication: **May 11, 2006**

Full Proposal: July 27, 2006

The U.S. Department of Energy (DOE) announces its interest in receiving applications for the establishment of integrated subsurface research teams under the auspices of the Environmental Remediation Sciences Division (ERSD). The goal is to establish field research site(s) where integrated science teams manage and conduct field-site research over a five year period. These multidisciplinary science teams will be expected to undertake hypothesis-based field research on key processes influencing the subsurface transport, immobilization or remobilization of metal and radionuclide contaminants at DOE sites and to manage the field site(s). The Integrated Field-Scale Subsurface Research Challenge is intended to provide the necessary funding to enable large teams of interdisciplinary scientists to make significant advances in the understanding and simulation of subsurface processes affecting contaminant transport at the field scale as well as to provide short-term access and samples to other ERSD investigators interested in taking advantage of the site. This solicitation challenges researchers to carefully identify major gaps in the understanding of subsurface contaminant transport and/or in situ remediation processes at the field scale, select an appropriate DOE site, assemble an interdisciplinary team and carry out a hypothesis-driven research plan that will advance the science of subsurface contaminant transport and resolve the previously identified knowledge gaps. The environment of interest is the terrestrial subsurface below the zone of root influence including both the vadose zone (unsaturated) and the saturated zone (groundwater and sediments) on DOE property or lands for which DOE has cleanup responsibility. Investigations of phytoremediation research are not addressed in this notice. Contaminants of concern for this notice are DOE-relevant metals and radionuclides. Non-aqueous phase liquid (NAPLs) contaminants are not addressed in this notice.

For more information: <http://www.science.doe.gov/grants/FAPN06-16.html>.

Partnerships for Innovation (PFI)

National Science Foundation

Deadlines: Internal Competition: **May 15, 2006**

Letter of Intent to Sponsor (NOT required): June 28, 2006

Full Proposal to Sponsor: August 30, 2006

The goals of the PFI program are as follows: Stimulate the transformation of knowledge created by the research and education enterprise into innovations that create new wealth, build strong local, regional and national economies, and improve the national well-being; broaden the participation of all types of academic institutions and all citizens in NSF activities to more fully meet the broad workforce needs of the national innovation enterprise; and catalyze or enhance enabling infrastructure necessary to foster and sustain innovation in the long-term. In order to accomplish these goals, proposals may include any one or a combination of the following activities: 1) Research, technology transfer, and/or commercialization; 2) workforce education and/or training; 3) establishing the infrastructure to accomplish or enable innovation. NSF will fund total budgets of up to \$600K for award durations of 2 or 3 years. No organization may be a partner in more than two Partnership proposals per competition. An eligible U.S. academic institution may submit only one Partnership proposal as a lead institution. 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 May 15, 2006. 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://www.nsf.gov/pubs/2006/nsf06550/nsf06550.htm>.

Study and Analysis of Fuel Consumption and Emissions Reductions Associated with an Innovative Technology Package for Heavy Duty Diesel Trucks

U.S. Environmental Protection Agency

Deadline: **May 15, 2006**

This notice announces the availability of funds and solicits applications from eligible institutions for the study and analysis of fuel consumption and emissions reductions associated with the use of innovative technologies for heavy duty diesel trucks as part of an overall kit design. The total estimated funding for this competitive opportunity is not expected to exceed \$350,000, subject to the availability of funds and the quality of applications received. EPA seeks to fund one or more cooperative agreements.

For more information: <http://www.epa.gov/oar/grants/#trans> (scroll down to “RFA # EPA-OAR-STP-06-07”).

Campus Suicide Prevention Grants

Substance Abuse and Mental Health Services Administration

U.S. Department of Health and Human Services

Deadline: **May 16, 2006**

The Substance Abuse and Mental Health Services Administration (SAMHSA) Center for Mental Health Services (CMHS) announces the availability of Fiscal Year (FY) 2006 funds for Campus Suicide Prevention Grants. The purpose of the Campus Suicide Prevention Grants Program is to provide funding to support grants to institutions of higher education to enhance services for students with mental and behavioral health problems, such as depression, substance abuse, and suicide attempts, which can lead to school failure. Approximately \$2.3 million per year for 3 years will be available to fund up to 31 awards. The amount of the awards is expected to be \$75,000 in total costs (direct and indirect), plus an equivalent match from the applicant organization. Proposed budgets cannot exceed \$75,000 in any year of the proposed project. An equivalent match is required.

For more information: http://www.samhsa.gov/Grants06/RFA/SM_06_004_campus_suicide.aspx.

Alcohol Use Disorders: Treatment, Services Research, and Recovery (R01)

National Institutes of Health

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

The National Institute of Alcohol Abuse and Alcoholism invites applications to support research on behavioral and pharmacological treatment for alcohol use disorders; organizational, financial, and management factors that facilitate or inhibit the delivery of services for alcohol use disorders; and phenomenon of recovery from alcohol use disorders.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-258.html>.

Epidemiology of Drug Abuse

National Institutes of Health

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

The major goal of this PA is to stimulate innovative investigations that enhance our understanding of: (1) drug use patterns and trends within and across populations; (2) interplay of social interactions, social environment, structural context with individual behavioral characteristics and genetic vulnerability; (3) the phenotypic heterogeneity of drug abuse; (4) causal mechanisms leading to onset, maintenance, and remittance of drug abuse, as well as protective mechanisms that reduce the risk of drug abuse; and (5) drug abuse over the life course, including developmental processes that influence drug use trajectories and behavioral, health, and social consequences of drug abuse. In addition, research is encouraged to develop methodologies to improve the accuracy, efficiency, scope, timeliness, and analytic yield of drug abuse epidemiologic data.

For more information (and information on the R03 and R21 mechanisms of support):

<http://grants2.nih.gov/grants/guide/pa-files/PA-04-100.html>.

Health Research with Diverse Populations (R01)

National Institutes of Health

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

The purpose of this Program Announcement is to invite grant applications for biological, behavioral, social, mental health, and drug and alcohol abuse research bearing on the health of lesbian, gay, bisexual, transgender, intersex, and related populations. Proposed research should be appropriate for the missions of one or more of the participating Institutes.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-218.html>.

Information Technologies and the Internet in Health Services and Intervention Delivery (R01)

National Institutes of Health

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

While much progress has been made in developing guidelines to ease the use of Internet technologies for service intervention delivery, still relatively little is known about the impact of the Internet and other electronic research tools in delivering interventions that have been tested in a traditional care setting. Targeted research is needed to test the effectiveness of adapted "Internet-based" interventions, the effectiveness of the Internet and other technologies as a mechanism to deliver health information to consumers, and the impact of technology use on consumer health. More broadly, research is needed to develop theory-based HIT (health information technology) implementation, and to explore the use of HIT as a vehicle, not a new intervention, to deliver effective health treatments to consumers. Of particular interest is the use of HIT in mental health and cancer prevention areas.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-226.html>.

For information on the R03 mechanism of support for this solicitation:

<http://grants.nih.gov/grants/guide/pa-files/PA-06-225.html>.

For information on the R21 mechanism of support for this solicitation:

<http://grants.nih.gov/grants/guide/pa-files/PA-06-224.html>.

Prescription Drug Abuse

National Institutes of Health

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

The purpose of this Funding Opportunity Announcement (FOA) from the National Institute on Drug Abuse is to encourage research aimed at reducing prescription drug abuse while supporting appropriate medical use of therapeutic agents with abuse liability. A range of research is needed to combat prescription drug abuse--from specifying the extent and nature of the problem (including health and social consequences) and identifying their determinants, to discovering effective clinical practices that identify those at risk and designing and disseminating prevention and treatment interventions.

For more information (and information on the R03 and R21 mechanisms of support):

<http://grants.nih.gov/grants/guide/pa-files/PA-04-110.html>.

Research on the Economics of Diet, Activity, and Energy Balance (R21)

National Institutes of Health

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

Obesity has become a major focus of public health efforts at the national, State, and local levels. The major focus of this FOA is to solicit projects that enhance the state-of-the-science on the causes of obesity and to inform Federal decision making on effective public health interventions for reducing the rate of obesity in the United States. Research strategies that nest economic analysis within a broader interdisciplinary context of other social and behavioral sciences as well as the epidemiological, bio-statistical, medical, and biological disciplines relevant to public health policy are especially encouraged.

For more information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-292.html>.

Understanding Mechanisms of Health Risk Behavior Change in Children and Adolescents

National Institutes of Health

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

The goal of this PA is to promote optimal physical and mental health in children and adolescents. This may be accomplished by research to enhance our understanding of the origin, evolution, and termination of health risk behaviors and, ultimately, by the development of effective prevention and intervention strategies designed to maintain healthy behaviors and prevent health risk behaviors. Interdisciplinary research is sought to explore the biological, genetic, physiological, psychological, and social/environmental factors and mechanisms that influence health risk behavior change in children and adolescents. A better understanding of theory-driven, causal pathways and recognition of mediators and moderators will aid in the identification of the etiology of health risk behaviors, precursors of health risk behaviors, and associated risk and resilience factors. The research findings will have the potential to inform the development of more comprehensive and effective prevention and intervention strategies in the fields of substance abuse, obesity, and injuries.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-04-121.html>.

For more information on the R21 mechanism of support:

<http://grants1.nih.gov/grants/guide/pa-files/PA-06-298.html>.

University Transportation Center (UTC) Program

Research and Innovative Technology Administration

U.S. Department of Transportation

Deadline: **June 1, 2006**

The Research and Innovative Technology Administration (RITA) of the U.S. Department of Transportation (US DOT) plans to establish and maintain one University Transportation Center (UTC) in each of the ten standard federal regions. The purpose of the Centers is to advance U.S. technology and expertise in the many disciplines comprising transportation through the

mechanisms of education, research, and technology transfer. To accomplish this purpose, RITA will provide up to \$2 million per Center for each of two consecutive years starting in 2007 and then up to \$2,225,000 for a third year. Each Center is required to obtain matching funds from non-federal sources in an amount at least equal to the US DOT grant amount. US DOT funding will be awarded in annual increments, on the basis of each Center's success in attaining the goals of the program in the prior year and subject to the availability of funding.

For more information: <http://utc.dot.gov/comp2006.html> (click on "UTC Regional Grant Competition" link).

Women, Sex/Gender Differences and Drug Abuse

National Institutes of Health

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

The purpose of this Funding Opportunity Announcement (FOA) is to encourage sex/gender-based drug abuse research that focuses on the mechanisms, origins, and consequences of drug abuse, as well as prevention and treatment interventions and services. It also encourages the study of female-specific issues in all areas of drug abuse.

For more information (and information on the R03 and R21 mechanisms of support):
<http://grants2.nih.gov/grants/guide/pa-files/PA-03-139.html>.

Center for Research and Exploration in Space Science and Technology (CRESST)

National Aeronautics and Space Administration (NASA)

Deadline: **June 2, 2006**

NASA Goddard Space Flight Center is soliciting proposals to establish a Cooperative Agreement (CA) for basic and applied research in areas related to NASA strategic space science mission objectives. The primary focus is the establishment of a center of excellence for collaborative research in the Space Sciences between NASA, and Educational, or Not for Profit Science organizations. The Goddard "Center for Research and Exploration in Space Science and Technology" (CRESST) will carry out observational, experimental, and theoretical research in support of NASA strategic science mission objectives relating to:

- The Sun and solar system, stars, galaxies, and the universe at large;
- The informational and computational sciences related to the unique needs of data systems required to interpret data from the space sciences;
- The development of the technology required to achieve these scientific challenges

The partner(s) to establish the CRESST will be selected through an open competitive process. Proposals will be accepted from Universities, and not for profit research organizations. Proposals from teams of these entities are also welcome. The CRESST will be implemented through a cooperative agreement. Where multiple organizations are teaming, it is expected the primary interface will be a single team lead. The intent of this solicitation is to award a single Cooperative Agreement. It is anticipated the period of performance shall be a base period of five (5) years with a possible five (5) year extension which would best serve the Governments needs

in the most effective manner possible. It is anticipated that the level of funding available to support any award resulting from this CAN is approximately \$8M - \$10M per year.

For more information: <http://prod.nais.nasa.gov/cgi-bin/eps/synopsis.cgi?acqid=119266>.

Basic Research for Solar Energy Utilization

U.S. Department of Energy

Deadlines: Preapplication: **June 5, 2006**

Full Proposal (by invitation): November 14, 2006

In keeping with its mission to assist in strengthening the Nation's scientific research enterprise through the support of fundamental science and the experimental tools to perform basic research, the U.S. Department of Energy (DOE), announces its interest in receiving applications for basic research in the area of solar energy utilization. This Notice solicits innovative basic research applications to establish the scientific basis that underpins the efficient capture, conversion, and utilization of solar energy in a cost-effective manner. We seek to support outstanding fundamental research programs that will lead to key discoveries and conceptual breakthroughs to make sunlight as the practicable solution to meet our compelling need for clean, abundant sources of energy. Potential applicants are **REQUIRED** to submit a brief preapplication. Only those preapplicants that receive notification from DOE encouraging a formal application may submit a formal application.

For more information: <http://www.science.doe.gov/grants/FAPN06-15.html>.

Environmental Remediation Science Program

U.S. Department of Energy

Deadline: **June 15, 2006**

The U.S. Department of Energy (DOE) announces interest in receiving applications for research grants in the Environmental Remediation Sciences Program (ERSP). The goal of the ERSP is to support innovative, fundamental research investigating coupled chemical, biological and physical processes affecting the transport of DOE-relevant contaminants within the subsurface at DOE sites leading to new or improved subsurface remediation techniques and a sound foundation for remedial action decisions important to long-term site stewardship. This solicitation addresses several science elements previously addressed under the Natural and Accelerated Bioremediation Research (NABIR) program and the Environmental Management Science Program (EMSP) and reflects the merger of these two programs into the ERSP. Applications should address hypothesis-driven research to define biologically-mediated and/or hydrogeochemical processes influencing the form and mobility of DOE contaminants and provide the basis for development of new remediation concepts or strategies for long term stewardship. Applications should address the applicability of the proposed research to DOE relevant contaminant transport processes occurring in the field. The environment of interest is the terrestrial subsurface below the zone of root influence including both the vadose zone (unsaturated) and the saturated zone (groundwater and sediments). Phytoremediation is not

addressed in this Notice. Specific Science Elements of interest to this Notice include: 1) Subsurface Biogeochemistry; 2) Subsurface Microbial Ecology and Community Dynamics; 3) Innovative Field-scale Remediation and Long-Term Stewardship Research; 4) Novel Measurement and Monitoring Concepts, and; 5) Exploratory Research.

For more information: <http://www.science.doe.gov/grants/FAPN06-12.html>.

Atlantis Program

U.S. Department of Education

Deadline: **July 7, 2006**

The European Union-United States Atlantis Program is a grant competition conducted cooperatively by the U.S. Department of Education's Fund for the Improvement of Postsecondary Education (FIPSE) and the European Commission's Directorate General for Education and Culture (DG EAC). The purpose of this competition is to promote a student-centered, transatlantic dimension to higher education and training in a wide range of academic and professional disciplines. The Atlantis Program will fund collaborative efforts to develop programs of study leading to joint or dual undergraduate degrees. The program will also fund a small number of policy-oriented grants. A new agreement with the European Union, covering 2006-2013, provides new grant formats and funding levels for FY 2006. Funding will support grants for four years and include student travel stipends, faculty travel stipends, and administrative costs.

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

Geobiology and Low-Temperature Geochemistry Program

National Science Foundation

Deadlines: **July 16** and January 16, annually

The Geobiology and Low-Temperature Geochemistry Program supports research on 1) the interactions between biological and geological systems at all scales of space and time; 2) geomicrobiology and biomineralization processes; 3) the role of life in the evolution of the Earth's system; 4) inorganic and organic geochemical processes occurring at or near the Earth's surface now and in the past, and at the broad spectrum of interfaces ranging in scale from planetary and regional to mineral-surface and supramolecular; 5) mineralogy and chemistry of soils and sediments; 6) surficial chemical and biogeochemical systems and cycles and their modification through natural and anthropogenic change; and 7) development of tools, methods, and models for low-temperature geochemistry and geobiological research. The Geobiology and Low-Temperature Geochemistry Program facilitates cross-disciplinary efforts to harness new bioanalytical tools – such as those emerging from molecular biology – in the study of the terrestrial environment.

For more information: <http://www.nsf.gov/pubs/2006/nsf06563/nsf06563.htm>.

Geomorphology and Land-Use Dynamics

National Science Foundation

Deadlines: **July 16** and January 16, annually

Geomorphology and Land-Use Dynamics supports innovative research into processes that shape and modify landscapes over a variety of length and time scales. The program encourages research that investigates quantitatively the coupling and feedback between such processes, their rates, and their relative roles, especially in the contexts of variation in climatic and tectonic forcings and in light of changes due to human impact.

For more information: <http://www.nsf.gov/pubs/2006/nsf06564/nsf06564.htm>.

Sedimentary Geology and Paleobiology

National Science Foundation

Deadlines: **July 16** and January 16, annually

Sedimentary Geology and Paleobiology supports studies of: (1) the changing aspects of life, ecology, environments, and biogeography in past geologic time based on fossil plants, animals, and microbes; (2) all aspects of the Earth's sedimentary carapace — insights into geological processes recorded in its historical records and rich organic and inorganic resources locked in rock sequences; (3) the science of dating and measuring the time sequence of events and rates of geological processes of the Earth's past sedimentary and biological record; (4) the geologic record of the production, transportation, and deposition of physical and chemical sediments; and (5) understanding the complexities of Earth's deep time climate systems. The Sedimentary Geology and Paleobiology Program especially encourages integrative studies at the national and international levels that seek to link subdisciplines, such as paleoclimatology, paleogeography, and paleoenvironmental and paleoecologic reconstructions.

For more information: <http://www.nsf.gov/pubs/2006/nsf06565/nsf06565.htm>.

Young Investigator Research Program

Air Force Office of Scientific Research (AFSOR)

Deadline: **July 20, 2006**

The AFOSR's Young Investigator Research Program (YIP) is to support scientists and engineers who have received Ph.D. or equivalent degrees in the last five years (on or after 1 May 2001) and who show exceptional ability and promise for conducting basic research. The objective of this program is to foster creative basic research in science and engineering, enhance early career development of outstanding young investigators, and increase opportunities for the young investigators to recognize Air Force mission and the related challenges in science and engineering. Proposals addressing the research areas of interest for the Air Force Research Laboratory will be considered. The basic research areas of current interest are available on-line at the AFOSR web: <http://www.afosr.af.mil/> (select "Research Opportunities" and find "AFOSR Research Interest Brochure and Broad Agency Announcement 2006-1"). AFOSR intends to

make approximately 15 awards for FY 2007, subject to the availability of funds. Each award will be funded at \$100K or more per year for three years.

For more information: <http://www.afosr.af.mil/YIP%20-%202007%20%20BAA%20-%20f.pdf> (PDF file).

Alliances for Broadening Participation in STEM (ABP)

Program Track: Louis Stokes Alliances for Minority Participation (LSAMP)

National Science Foundation

Deadline: **October 15, 2006**

The two programs and one supplemental activity included under the Alliances for Broadening Participation in Science and Engineering (ABP) solicitation seek to increase the number of students successfully completing quality degree programs in science, technology, engineering and mathematics (STEM). Particular emphasis is placed on supporting groups that historically have been underrepresented in STEM: African Americans, Alaskan Natives, American Indians, Hispanic Americans and Native Pacific Islanders. ABP support begins at the baccalaureate level with the Louis Stokes Alliances for Minority Participation (LSAMP) program. For eligible students, significant financial support is continued for two years of graduate study via the Bridge to the Doctorate (BD) activity. Rounding out the ABP cluster are Alliances for Graduate Education and the Professoriate (AGEP), which further the graduate education of minority students through the doctorate level, preparing them for fulfilling opportunities and productive careers as STEM faculty and research professionals (see separate announcements for the AGEP and BD programs).

For more information: <http://www.nsf.gov/pubs/2006/nsf06552/nsf06552.htm>.