

# Funding Opportunities Bulletin

## July 2005

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

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### **BUSINESS**

#### **Call for Proposals**

KU Center for Research in Entrepreneurial Activity

Deadlines: None; applications accepted on a rolling basis

The KU Center for Research in Entrepreneurial Activity (CREA) has funds to support research on topics that will add to our understanding of the sources and effects of entrepreneurship. Interested faculty at the University of Kansas are invited to apply for funding from the Center to support their work. These grants are made possible through the generosity of the Kauffman Foundation of Kansas City. CREA will fund two types of projects: (1) **Research grants** are intended to support work intended for a top journal or other prominent academic outlet, or to lead to a proposal for additional funding from another external agency to support projects of a larger scope than those funded by the Center. The grants will typically provide support for summer salary and other needs relevant for a major research project (e.g., research assistance, data, or travel), the average award will be approximately \$30,000. (2) **Pre-proposals or literature reviews** are intended to allow a scholar to survey and get acquainted with an area but without the expectation of a research publication. The pre-proposals or literature reviews will receive funding of \$2,000.

For more information: <http://www.ku.edu/pri/CREA/>.

### **EDUCATION**

#### **Comprehensive Center Program**

U.S. Department of Education

Deadline: **July 18, 2005**

A central focus of the U.S. Department of Education is to support efforts to close achievement gaps and help all students achieve to high academic standards. Under the Elementary and Secondary Education Act of 1965 (ESEA) as amended by the No Child Left Behind Act of 2001

(NCLB), the Department is committed to helping States, districts, and schools adopt scientifically based strategies to improve instruction, develop assessment and accountability systems to evaluate student and school performance, and implement reforms to restructure and redesign school districts and schools in need of improvement. The Comprehensive Center Program will award discretionary grants to establish technical assistance centers that will help States raise student achievement and reach the goals of NCLB. Centers established under this program will replace the former Comprehensive Regional Assistance Centers, the Regional Technology in Education Consortia, the Eisenhower National Clearinghouse for Mathematics and Science Education, and the Regional Mathematics and Science Education Consortia. Under the Comprehensive Centers program, the Department expects to award funds to support 21 centers. Sixteen Regional Centers will serve States within defined geographic boundaries. Five awards will support Content Centers, each having a specific content expertise and focus. These five Content Centers are: the Center on Assessment and Accountability, the Center on Instruction, the Center on Teacher Quality, the Center on Innovation and Improvement, and the Center on High Schools.

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

### **Reading and Writing Education Research**

Institute of Education Sciences

U.S. Department of Education

Deadline: **July 21, 2005**

Through its Read/Write research program, the Institute intends to contribute to improvement of reading and writing skills by (1) identifying curriculum and instructional practices that are potentially effective for improving reading or writing outcomes as well as mediators and moderators of the effects of these practices; (2) developing interventions for teaching individuals reading or writing or for addressing the underlying causes of reading or writing difficulties (e.g., poor oral language skills); (3) establishing the efficacy of existing interventions and approaches for teaching reading or writing or for reducing/preventing reading or writing difficulties with efficacy or replication trials; (4) providing evidence on the effectiveness of reading or writing interventions implemented at scale; and (5) developing and validating assessments that can be used in instructional settings to identify sources of read/write difficulties. The long-term outcome of this program will be an array of tools and strategies (e.g., assessments, instructional approaches) that have been documented to be effective for improving reading and writing.

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

### **Child Care Access Means Parents in School Program**

U.S. Department of Education

Deadline: **July 22, 2005**

The Child Care Access Means Parents in School Program supports the participation of low-income parents in the postsecondary education system through the provision of campus-based

childcare services. The Higher Education Act of 1965, as amended, authorizes the Secretary of Education to award grants to institutions of higher education to assist the institution in providing campus-based child care services to low-income students. Eligible activities include, but are not limited to: Supporting or establishing a campus-based child care program primarily serving the needs of low-income students enrolled at the institution; Establishing or expanding childcare programs for infants and toddlers as well as providing before and after school services for older children to the extent necessary to enable low-income students enrolled at the institution of higher education to pursue postsecondary education; Subsidizing the costs of the childcare services for your low-income students; Programs involving parents; Faculty, staff, program, and curriculum development; Travel for professionals; Supplies and equipment; Costs for personnel; Minor renovations and repairs.

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

### **Early Intervention and Assessment for Young Children with Disabilities—Special Education Research**

Institute of Education Sciences

U.S. Department of Education

Deadline: **July 28, 2005**

The purpose of the Early Intervention research program is to contribute to the improvement of cognitive, linguistic, social, and emotional outcomes of young children with disabilities or to prevent the development of learning disabilities by: (a) identifying curriculum and instructional practices that are potentially effective for improving cognitive, linguistic, social, and emotional outcomes of young children with disabilities; (b) developing new, or modifying existing, preschool curricula, including appropriate teacher professional development, to address the cognitive, linguistic, social, and emotional needs of young children with disabilities or at risk for learning disabilities; (c) establishing the efficacy of existing preschool curricula for teacher professional development for teaching young children with disabilities or young children at high risk for learning disabilities; (d) providing evidence on the effectiveness of preschool curricula or teacher professional development implemented at scale that are designed to address the cognitive, linguistic, social, and emotional needs of young children with disabilities or at high risk for learning disabilities; and (e) developing and validating early assessment tools that can be used by practitioners to identify and monitor preschool children who are in need of intensive early intervention. Interventions appropriate for development and/or evaluation under this program are interventions intended to improve cognitive, linguistic, social, and emotional outcomes of children with disabilities or children at high risk for disabilities in pre-kindergarten or kindergarten.

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

## **Education Finance, Leadership, and Management Research**

Institute of Education Sciences

U.S. Department of Education

Deadline: **July 28, 2005**

The Institute intends for the Education Finance, Leadership, and Management (Finance/Management) research program to address five goals (1) identifying finance, leadership, and management practices that are potentially effective for enhancing the teaching and learning environment and thereby improving student outcomes (e.g., student learning, high school graduation and dropout rates); (2) developing new finance, leadership, and management practices; (3) evaluating the efficacy of finance, leadership, and management practices; (4) providing evidence on the effectiveness of finance, leadership, and management 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.

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

## **Mathematics and Science -- Special Education Research**

Institute of Education Sciences

U.S. Department of Education

Deadlines: Letter of Intent: **September 12, 2005**; Full Proposal: November 17, 2005

The Institute intends for the Special Education – Math/Science research program to fulfill five goals: (1) identifying curriculum and instructional practices that are potentially effective for improving mathematics or science outcomes for students with identified disabilities and students at high risk for disabilities, as well as mediators and moderators of the effects of these practices; (2) developing new interventions and approaches to mathematics and science education for students with identified disabilities and students at high risk for disabilities that will eventually result in improving mathematics and science achievement; (3) establishing the efficacy of existing interventions and approaches to mathematics and science education for students with identified disabilities and students at high risk for disabilities; (4) providing evidence on the effectiveness of mathematics and science interventions implemented at scale; and (5) developing and validating assessments for mathematics and science learning. Interventions appropriate for development and/or evaluation under this program are interventions intended to improve mathematics or science achievement of students with disabilities and students at high risk for disabilities. Mathematics interventions may be for students from kindergarten through adult education; science interventions may be for students from kindergarten through high school. The long-term outcome of this program will be an array of tools and strategies (e.g., curricula, programs) that have been demonstrated to be effective for improving mathematics and science learning and achievement.

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

## **Mathematics and Science Education Research**

Institute of Education Sciences

U.S. Department of Education

Deadlines: Letter of Intent: **September 12, 2005**; Full Proposal: November 3, 2005

The research program on Mathematics and Science Education (Math/Science) is intended to fulfill five goals: (1) identifying curriculum and instructional practices that are potentially effective for improving mathematics or science outcomes, as well as mediators and moderators of the effects of these practices; (2) developing new interventions and approaches to mathematics and science education that will eventually result in improving mathematics and science achievement; (3) establishing the efficacy of existing interventions and approaches to mathematics and science education with small efficacy or replication trials; (4) providing evidence on the effectiveness of mathematics and science interventions implemented at scale; and (5) developing and validating assessments for diagnosing sources of mathematics difficulties. The long-term programmatic outcome will be an array of tools and strategies that have been demonstrated to be effective for improving mathematics and science achievement.

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

## **Teacher Quality Reading and Writing Education Research**

Institute of Education Sciences

U.S. Department of Education

Deadline: Letter of Intent: **September 12, 2005**; Full Proposal: November 3, 2005

The purpose of the Teacher Quality Reading and Writing Education research program is to identify effective strategies for improving the performance of teachers in ways that lead to improvements in students' reading and writing skills, and to develop practical assessments of teacher knowledge and validate these assessments against measures of students' reading and writing performance. Through this program, the Institute will support research on the development and evaluation of teacher preparation programs, teacher professional development programs, and assessments of teacher knowledge.

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

## **Special Education Teacher Quality Research Grants Program—Reading and Writing**

U.S. Department of Education

Deadline: **November 17, 2005**

The general purpose of the Special Education Teacher Quality research program is to identify effective strategies for preparing future teachers of students with disabilities or improving the performance of current teachers of students with disabilities in ways that increase student learning and school achievement.

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

## **ENGINEERING & COMPUTER SCIENCE**

### **Electric Transmission and Distribution**

U.S. Department of Energy

Deadline: **July 8, 2005**

The Department of Energy, Office of Electricity Delivery and Energy Reliability (OEDER) seeks applications responding to the topic areas defined below. These topic areas address key technical challenges and high-priority activities identified in two Multi-Year Plans for three of the operating programs within the OEDER, namely, Electric Distribution Transformation (EDT) Program, GridWise Program, and GridWorks Program. The EDT Program and GridWise Program have jointly developed the Electric Distribution Multi-Year Research, Development, Demonstration, and Deployment (RD3) Technology Roadmap Plan: 2005-2009 (December 2004) and the GridWorks Program has developed its GridWorks Multi-Year Plan, March 2005. The Plans further define specific activities with milestones to address several critical technology areas outlined in the National Electric Delivery Technologies Roadmap (November 2003). The critical technology area addressed by the Electric Distribution RD3 Plan is primarily on “Distributed Sensors, Intelligence, Smart Controls, and Distributed Energy Resources”; and the GridWorks Plan addresses key aspects of the critical technologies on “Advanced Conductors” and “Power Electronics.” Thus this announcement seeks to support implementation of the Multi-Year Plans of the combined EDT/GridWise Programs (hereafter referred to as electric distribution R&D) and the GridWorks Program by addressing identified technology gap areas in the respective Plans which are of the utmost technical and programmatic significance.

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/83189341197E7F7D85257014006FD7D6?OpenDocument>.

### **Energy Efficient Building Technologies**

U.S. Department of Energy

Deadline: **July 28, 2005**

The Department of Energy seeks applications for the development of innovative technologies and approaches that have the potential to yield significant energy savings in residential and commercial buildings. The projects sought will advance the development or adoption of energy-efficient equipment, envelope, and whole building technologies. The objective is to accelerate high-payoff technologies and approaches that, because of their risk, are unlikely to be developed in a timely manner without a partnership between industry and the Federal government. This Announcement contains four Areas of Interest: 1) projects for windows research and development, focusing on the next generation of high efficiency fenestration products; 2) projects that will promote increased penetration of energy efficient windows in today’s marketplace; 3) projects for an integrated systems approach to development of more energy efficient technologies, production methods and design approaches applicable to the industrialized housing industry; and 4) projects for further advancement of DOE’s EnergyPlus design analysis tool and coordination of others’ efforts in this area.

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/8df825feb86675de852564650046faea/686751b0b46cff508525701c0049aff?OpenDocument>.

## **Integrative, Hybrid and Complex Systems (IHCS)**

Division of Electrical & Communications Systems

National Science Foundation

Deadline: **October 7, 2005**; February 7, 2006

The Integrative, Hybrid and Complex Systems (IHCS) program supports innovative research in areas that integrate device concepts and systems principles in the design, development and implementation of new nano/micro/macro hybrid and complex systems with engineering solutions for domain specific applications. Hybrid systems incorporating both continuous and discrete representations are of increasing interest in the study of distributed networks. Proposals are sought that address fundamental research issues associated with modeling, design, simulation and development of engineering systems with applications in telecommunications, homeland security, biotechnology and manufacturing. Areas of current interest include: hybrid and complex systems at the nano, micro and macro scales. Some of the technology areas include: Machine Intelligent Systems; System-on-a-Chip; System-in-a-package; Organic and Silicon-based Hybrid Systems; Quantum Information Systems; Optical and Wireless Communications Systems; Cyberengineering Systems.

For more information: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13381](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13381).

## **FINE ARTS**

### **The Arts on Radio and Television**

National Endowment for the Arts

Deadline: **September 9, 2005**

Through this category the National Endowment for the Arts seeks to make the excellence and diversity of the arts widely available to the American public through nationally distributed television and radio programs. Grants are available to support the development, production, and national distribution of radio and television programs on the arts. Priority will be given to artistically excellent programs that have the potential to reach a significant national audience, regardless of the size or geographic location of the applicant organization. Only programs of artistic excellence and merit, in both the media production and the subject, will be funded. Projects may include high profile multi-part television and radio series, single documentaries, performance programs, or arts segments for use within an existing series. Programs may deal with any art form (e.g., visual arts, music, dance, literature, design, theater, musical theater, opera, film/video/audio art, folk & traditional arts). Programs targeted to children and youth also are welcome.

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

## **HUMANITIES**

See also listings under SOCIAL SCIENCES

### **Humanities Grants**

Kansas Humanities Council (KHC)

Deadlines: Project Outline: **September 15, 2005**

Final Applications: October 20, 2005

Humanities grants are awards of up to \$10,000 for projects that engage the *general public* with the humanities (history, literature, philosophy, etc). Grants support lecture series, a public symposium, a museum exhibition, film discussion series, book discussion series, radio series, or a television documentary. Before submitting an application to KHC, it is recommended that potential applicants contact the staff to inquire about the availability of grant funds. KHC staff will answer questions about the application process and assist in making proposals as competitive as possible.

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

### **Grants for Teaching and Learning Resources and Curriculum Development**

National Endowment for the Humanities (NEH)

Deadline: **October 3, 2005**

Grants for Teaching and Learning Resources and Curriculum Development support projects to improve specific areas of humanities education and are intended to serve as national models of excellence. They must draw upon scholarship in the humanities and use scholars and teachers as advisers. NEH is especially interested in projects that offer solutions to problems frequently encountered by teachers. Two types of grants will be awarded: Curriculum Development Project grants provide up to \$100,000 in outright funds, matching funds, or a combination of the two, depending on the applicant's preference and the availability of NEH funds; Materials Development Project grants provide up to \$200,000 in outright funds, matching funds, or a combination of the two, depending on the applicant's preference and the availability of NEH funds.

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

### **Collaborative Research Grants**

National Endowment for the Humanities

Deadline: **November 1, 2005**

Collaborative Research Grants support: original research undertaken by a team of two or more scholars; or research coordinated by an individual scholar that, because of its scope or complexity, requires additional staff and resources beyond the individual's salary. Eligible projects include: research that significantly adds to knowledge and understanding in the humanities; conferences on topics of major importance in the humanities that will benefit

ongoing research; archaeology projects that interpret and communicate the results of archaeological fieldwork. Projects may encompass excavation, materials analysis, laboratory work, field reports, and preparation of interpretive monographs; translations into English of works that provide insight into the history, literature, philosophy, and artistic achievements of other cultures; and research that uses the knowledge, methods, and perspectives of the humanities to enhance understanding of science, technology, and medicine. These grants support full-time or part-time activities for periods of one to three years. Support is available for various combinations of scholars, consultants, and research assistants; project-related travel; field work; applications of information technology; and technical support and services. All grantees are expected to communicate the results of their work to the appropriate scholarly and public audiences.

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

### **Scholarly Editions Grants**

National Endowment for the Humanities

Deadline: **November 1, 2005**

Scholarly Editions Grants support the preparation by a team of at least two editors and staff of texts and documents that are currently inaccessible or available in inadequate editions. Projects involving significant literary, philosophical, and historical materials are typical in this grant program, but other types of work, such as musical notation, are also eligible. Applicants should demonstrate familiarity with the best practices recommended by the Association for Documentary Editing or the Modern Language Association Committee on Scholarly Editions. Editions produced with NEH support contain scholarly and critical apparatus appropriate to the subject matter and format of the edition.

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

## **INTERNATIONAL AREA STUDIES**

### **Fulbright Scholar Program**

Council for International Exchange of Scholars

U.S. Department of State

Deadline: **August 1, 2005**

Administered by the Council for International Exchange of Scholars, the Fulbright Scholar Program is sponsored by the United States Department of State, Bureau of Educational and Cultural Affairs. Under a cooperative agreement with the Bureau, the Council for International Exchange of Scholars (CIES) assists in the administration of the Fulbright Scholar Program for faculty and professionals. The traditional Fulbright Scholar Program for U.S. Scholars sends 800 faculty and professionals abroad each year. Grantees lecture and conduct research in a wide variety of academic and professional fields. Awards offered vary by country; please consult the complete Fulbright Scholar information at the website below. Beyond the traditional Fulbright

Scholar Awards, The Fulbright Scholar Program also offers awards for Distinguished Chairs, Senior Specialist, and International Education Administrators under separate competitions each year (see [http://www.cies.org/us\\_scholars/](http://www.cies.org/us_scholars/) for more information on these awards).

For more information: [http://www.cies.org/us\\_scholars/us\\_awards/](http://www.cies.org/us_scholars/us_awards/).

### **New Perspectives on Chinese Culture and Society**

American Council of Learned Societies

Deadline: **August 1, 2005**

The American Council of Learned Societies in cooperation with the Chiang Ching-kuo Foundation for Scholarly Exchange announces a program of support for conferences and publications on “New Perspectives on Chinese Culture and Society.” The Program will award funds in support of planning meetings, workshops, and/or conferences leading to publication of scholarly volumes. This program is intended to support projects in the humanities and related social sciences that bridge disciplinary or geographic boundaries, engage new kinds of information, develop fresh approaches to traditional materials and issues, or otherwise bring innovative perspectives to the study of Chinese culture and society. Proposals are expected to be empirically grounded, theoretically informed, and methodologically explicit. The Program especially encourages proposals concerning pre-modern China.

For more information: <http://www.acls.org/cck.htm>.

### **Fulbright Program for U.S. Students**

Institute of International Education

U.S. Department of State

Deadline: **October 21, 2005**

The Fulbright Program for U.S. Studies is administered by the Institute of International Education and sponsored by the U.S. Department of State. The program for U.S. Students offers four types of grants for students pursuing international studies. **Full Grants** (Include roundtrip transportation, a stipend for the academic year, supplemental health insurance, book and research allowances, and language orientation, among other benefits); **Travel Grants** (Available only to: Germany, Hungary, Italy); **Business Grants** (Opportunities available in Germany, Mexico, and Spain); English Teaching Assistantships (Opportunities to teach English language and conversation classes are available in select countries); **Islamic Civilization Initiative Awards** (Designed to enhance the knowledge and understanding of Islam and of Islamic history and culture as broadly defined, these awards are for research and study in any country where there is a U.S. Student Fulbright Program and a significant Muslim population). Check the website below for full details on each award and the application process.

For more information: [http://www.fulbrightonline.org/us/thinking\\_general.html](http://www.fulbrightonline.org/us/thinking_general.html).

## **MEDICINE & LIFE SCIENCES**

### **National Established Investigator Award**

National Research Program  
American Heart Association  
Deadline: **July 12, 2005**

The National Research Program funds research broadly related to CVD and stroke and encourages applications in such areas. The objective of the National Established Investigator Award is to support mid-term investigators with unusual promise and an established record of accomplishments; candidates have a demonstrated commitment to cardiovascular or cerebrovascular science as indicated by prior publication history and scientific accomplishments. A candidate's career is expected to be in a rapid growth phase. Awards are for a maximum of \$100,000 per year for up to five years.

For more information: <http://www.heart.org/presenter.jhtml?identifier=3019795>.

### **National Scientist Development Grant**

National Research Program  
American Heart Association  
Deadline: **July 12, 2005**

The National Research Program funds research broadly related to CVD and stroke and encourages applications in such areas. The objective of the National Scientist Development Grant is to support highly promising beginning scientists in their progress toward independence by encouraging and adequately funding research projects that can bridge the gap between completion of research training and readiness for successful competition as an independent investigator.

For more information: <http://www.americanheart.org/presenter.jhtml?identifier=3004142#SDG>.

### **Predocctoral Fellowships, Postdoctoral Fellowships, Beginning Grant-In-Aid and Grant-in-Aid**

Heartland Affiliate  
American Heart Association  
Deadline: **July 13, 2005**

These award support research broadly related to cardiovascular function and disease, stroke, or to related clinical, basic science, bioengineering or biotechnology, and public health problems. Awards range from \$25,000 for pre-doctoral fellowships to \$71,500 for Grant-in-Aid.

For more information: <http://www.americanheart.org/presenter.jhtml?identifier=2492>.

## **Aquatic Foodbase Research Activities--Identifying Pathways Linking Lower Trophic Levels with Native and Non-native Fish in the Colorado River, Grand Canyon**

Grand Canyon Monitoring and Research Center

U.S. Geological Survey

Deadline: **July 15, 2005**

The Grand Canyon Monitoring and Research Center (GCMRC), U.S. Geological Survey, is soliciting proposals of assistance to conduct research on the aquatic food web of the Colorado River. Previous research provides a clear picture of food web structure in the upper reaches of the Colorado River Ecosystem (CRE), but considerable uncertainty remains regarding the food web structure and trophic linkages at downstream reaches. The purpose of this solicitation is to initiate collaborative research with GCMRC scientists that will identify food web structure and trophic pathways that are of importance to both native and non-native fishes throughout the CRE. GCMRC will provide all the logistical support (i.e., vehicles, boats and skilled boatmen, food, camping gear, research sampling and collection equipment) required to conduct this research. Period of performance for this collaborative effort will be from one to three years. Initial funding will be for one year, and may or may not be renewable annually on the basis of available funding and adequate progress. Anticipated funding is ~\$100-200k per year, with an additional ~\$85,000 annually for logistical support (i.e., river trips, equipment, etc.).

For more information: [http://www.gcmrc.gov/news\\_info/rfps-jobs/rfps-jobs.htm](http://www.gcmrc.gov/news_info/rfps-jobs/rfps-jobs.htm) (Scroll down to "Aquatic Food Base Solicitation").

## **COBRE Grant 2006 Competition**

Kansas NIH-COBRE Center for Cancer Experimental Therapeutics

Deadlines: Nomination of a COBRE mentor by the applicant: **July 15, 2005**

Proposal submission: **August 1, 2005**

COBRE Awards are grants that stimulate competitive extramural research funding for faculty members early in their careers and for tenured faculty who plan a change of research direction. Individual awards may be requested for up to \$250,000 for two years or \$100,000 for two years, depending on the investigator's needs. COBRE expects to make several awards for high quality, well-developed research proposals, with the understanding that the award monies will be used to prepare an NIH grant application. The awards are to be used to generate adequate preliminary data or to strengthen existing preliminary data to be able to submit competitive NIH RO1 applications. In some instances, awardees may apply for 3rd year funding after 2nd year funding ends. Faculty who are not currently, or have not previously been a principal investigator (P.I.) of an RO1 research grant from the National Institutes of Health, are eligible. COBRE First Award recipients and NIH First Award recipients are also eligible. Priority will be given to non-tenured, tenure-track faculty who are within the initial three years of their first academic position at Kansas University, Kansas University Medical Center, Kansas State University or Wichita State University. Senior investigators are also eligible to apply if either of the following conditions is met: (a) they have not been a P.I. on a previous NIH grant and wish to obtain sufficient data to apply for NIH funding; (b) they have had previous NIH support and plan a change of research direction. Research eligible for funding by the NIH will be considered.

Proposals in the general area of experimental cancer therapeutics have highest priority for funding. Proposals for basic research that expect to contribute to the general understanding of cancer development, diagnosis or treatment, which are funded by other NIH agencies, are encouraged. Each applicant must nominate a mentor by July 15, 2005.

For more information: <http://www2.kumc.edu/cobre>.

### **Inflammation, Inflammatory Mediators and Aging**

National Institute on Aging  
National Institutes of Health

Deadlines: Letter of Intent: **August 15, 2005**; Full Proposal: September 14, 2005

Inflammatory processes, particularly those mediating chronic inflammation, have been implicated as predictors or initiators of, or contributors to, chronic diseases and conditions of aging including cardiovascular disease, osteoarthritis, osteoporosis, Alzheimer's Disease, insulin resistance and diabetes, muscle wasting, and frailty. Altered cytokine profiles due to aging of the innate immune system and/or of non-immune cell types, and/or to age-related changes in body composition and other factors, have been proposed to contribute to age-related changes in the structure and function of tissues, pathophysiologic changes, and the development of chronic diseases of aging. However, there is insufficient knowledge about the effects of age-related alterations in the levels or activity of inflammatory mediators. More information is needed on the extent to which age-related changes in inflammatory mediators: Occur independently of age-related conditions, or are responses to them, and Affect progression of age-related pathologies, or risk of clinical and functional outcomes. This RFA seeks studies to determine relationships of age-related changes in inflammation and inflammatory mediators to physiologic and pathophysiologic aging changes, risks and progression of age-related morbidity and disability, and changes in tissue and organ function.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-05-011.html>.

### **Cooperative Study Group for Autoimmune Disease Prevention**

National Institutes of Health

Deadlines: Letter of Intent: **September 12, 2005**; Full Proposal: October 12, 2005

Single institutions or consortia of institutions are invited to participate in a cooperative research group focusing on prevention of human autoimmune diseases, with an emphasis on type 1 diabetes. In FY 2006, the co-sponsoring NIH Institutes and the Juvenile Diabetes Research Foundation International (JDRFI) anticipate awarding a total of \$4.5 million to fund four to six awards, using the single-project (U01) and multi-project (U19) cooperative agreement award mechanisms. Additional discretionary funds of approximately \$2.5 million will be allocated to the Study Group to fund innovative collaborative, discovery-based, and/or pilot and feasibility projects consistent with the overall goal of autoimmune disease prevention.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-05-026.html>.

### **Development of Disease Biomarkers**

National Institutes of Health

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

This Program Announcement will provide resources to validate candidate biomarkers for well-defined human diseases of liver, kidney, urological tract, digestive and hematologic systems, and endocrine and metabolic disorders, diabetes and its complications, and obesity, for which there are no or very few biomarkers, or for which standard biomarkers are currently prohibitively invasive or expensive. A biomarker is an indicator of a disease process, and could replace hard clinical end points as a measure of the effect of new therapies. Responsive studies will validate candidate biomarkers in well-defined patient populations, provide new technologies to monitor biomarkers or establish reliable assays for validated markers.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-05-098.html>.

### **Mechanisms of Transmission and Dissemination of Transmissible Spongiform Encephalopathies (TSEs)**

National Institute of Neurological Disorders and Stroke (NINDS)

National Institutes of Health

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

The National Institute of Neurological Disorders and Stroke encourages investigator-initiated research grant applications to study the mechanisms of transmission and dissemination of transmissible spongiform encephalopathies (TSEs). TSEs or “prion diseases” are neurodegenerative disorders that can lead to dementia, motor dysfunction and eventually death. Iatrogenic transmission of prion disease has been reported (transplantation of cadaveric cornea or dura mater, or injection of cadaveric human growth hormone); however the best known mechanism of natural transmission of TSEs is via the gastrointestinal tract through ingestion of contaminated food. Once in the digestive tract, prions are able to disseminate to the peripheral lymph organs and the Central Nervous System (CNS). This PA is intended to expand research on how these diseases can spread within an affected population and how infectious prions are then distributed through the body and ultimately to the CNS.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-05-096.html>.

### **Pilot and Feasibility Program Related to the Kidney**

National Institutes of Health

Deadline: Letter of Intent: **October 1**, February 1, and June 1, annually

The Division of Kidney, Urologic and Hematologic Diseases (DKUHD) of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), the Division of Cancer Biology of the National Cancer Institute (NCI), the National Heart, Lung, and Blood Institute (NHLBI) and the Biology of Aging Program of the National Institute on Aging (NIA) invite applications through the exploratory/developmental (R21) grant mechanism from investigators with research interests

related to the kidney and fall within the purview of the NIH mission. The primary intent of this initiative is to foster the development of high-risk pilot and feasibility research by newly independent or established investigators, to develop new ideas sufficiently to allow for subsequent submission of R01 applications focusing on research problems relevant to the study of both acute and chronic kidney diseases, and their complications, in both the adult and pediatric populations.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-05-103.html>.

### **Pilot Studies in Pancreatic Cancer**

National Institutes of Health

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

This funding opportunity is intended to promote innovative research across multiple disciplines for better understanding of the biology, etiology, detection, prevention, and treatment of pancreatic cancer. Examples of appropriate research areas include, but are not limited to: Identification of genetic aberrations (e.g., mutations, epigenetic changes, etc.) or combinations of aberrations alterations that initiate or promote pancreatic cancer; Development of experimental models for human pancreatic cancer to facilitate the understanding of molecular carcinogenesis, to help to identify promising molecular targets, and to test new preventive/therapeutic strategies; Exploration of molecular pathways using human cell lines and/or tissues to identify possible novel targets for prevention or therapeutic development; Identification of markers for early detection of cancer; Conduct of preclinical studies to identify candidate chemopreventive drug(s) and dietary factors for prevention and to characterize the molecular mechanism(s) of the agent's activity; Conduct of small exploratory clinical trials with a potential chemopreventive agent (e.g., a farnesyltransferase inhibitor or a statin) assessing response via endoscopic ultrasound or another similar technology; Development of early-stage clinical trials in pancreatic cancer prevention and therapy; Assessment of any associations of tumor pathophysiology on tumor development, progression, and preventive/therapeutic response; Conduct of exploratory studies to identify and evaluate biomarkers (with associated assay development) to determine prognosis and predict response to therapy in pancreatic cancer; Evaluation of combination therapies for pancreatic cancer; Identification 'of new' environmental exposures (e.g., adverse energy balance) that may contribute to pancreatic cancer development, including adverse energy balance; Assessment of the impact of pancreatic cancer on health-related quality of life of patients and their caregivers; and Conduct of pilot surveillance studies and generation of survivorship registries.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-05-116.html>.

### **Secondary Analyses in Obesity, Diabetes, Digestive and Kidney Diseases**

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

National Institutes of Health

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

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) invites applications to support the secondary analysis of existing data sets relevant to diabetes and endocrine and metabolic diseases; digestive diseases and nutrition, including obesity and eating disorders; and kidney, urological, and hematological diseases. A major subject of this announcement is the support of research on overweight and obesity. The goal of this NIDDK program is to facilitate performance of short term projects that explore innovative approaches that are not readily supported by other funding mechanisms and that can be conducted using existing data sets. This PA will use the NIH exploratory/development (R21) award mechanism. The applicant may request a project period of up to 2 years with a combined budget for direct costs of up \$275,000 for the 2-year period.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-05-094.html>.

### **Secondary Data Analyses Based on the NICHD Study of Early Child Care and Youth Development**

National Institute of Child Health and Human Development (NICHD)

National Institutes of Health

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

The National Institute of Child Health and Human Development (NICHD) encourages scientists in the US and internationally to address research questions about family, child care, school, and child development through analyses of existing data sets from the NICHD Study of Early Child Care and Youth Development. In particular, NICHD would like to see the data sets used by psychologists, sociologists, economists, statisticians, educators, policy makers, and physician scientists. NICHD is committed to facilitate the creation of a complex, multifaceted, and yet interconnected body of scientific knowledge that is based on data from the more than 1,000 families participating in the NICHD Study of Early Child Care and Youth Development. Having such a scientific body of knowledge has the potential of leading to a deep and comprehensive understanding of variations in families, child care settings, and schools, and of how such variations are linked to the development of children from different walks of life. Moreover, new analyses of the data sets, from different scientific perspectives, will increase understanding of the ways in which the interconnections between the child-rearing environment and children's developmental outcomes unfold with maturation over time.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-05-093.html>.

## **Population Research Infrastructure Program**

National Institutes of Health

Deadlines: Letter of Intent: **October 19, 2005**; Full Proposal: November 16, 2005

This RFA invites applications for infrastructure grants in support of population research relevant to the mission of the Demographic and Behavioral Sciences Branch (DBSB), Center for Population Research (CPR), NICHD. Applicants may request funds to support infrastructure development and/or research designed to: (1) enhance the quality and quantity of population research conducted at an institution; and (2) develop new research capabilities to advance population research through innovative approaches. A central goal of this program is to facilitate interdisciplinary collaboration and innovation in population research while providing essential and cost-effective core services in support of the development, conduct, and translation of population research based in centers or comparable administrative units. This announcement invites applications for Research Infrastructure Awards. A separate announcement (available at: <http://grants.nih.gov/grants/guide/pa-files/PAR-04-138.html>) invites applications for Developmental Infrastructure Awards, which are intended to support the development and demonstrate the feasibility of programs that have high potential for advancing population research, but have not yet fully developed the necessary resources and mechanisms to be competitive for a Research Infrastructure Award. Only one application is permitted per institution. An internal competition announcement is forthcoming.

For more information: <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-05-028.html>.

## **PHYSICAL SCIENCES & MATHEMATICS**

### **2001 Mars Odyssey Participating Scientists**

National Aeronautics and Space Administration

Deadline: Notice of Intent: **July 1, 2005**; Full Proposal: September 1, 2005

Principal Investigators of selected proposals for this opportunity will become Odyssey Participating Scientists during the Odyssey extended mission and will join the appropriate Odyssey science investigation depending on the nature of their proposals. Participating Scientist proposals include investigations that are instrument specific or interdisciplinary in nature and must include both science analysis and an operational component in order to be considered. The selected Participating Scientists will coordinate their activities and analyses with the present investigators on Odyssey. Each Participating Scientist selected under this solicitation will have full rights of access to mission data and be expected to participate in data analysis, archiving, and publication. Each selected Participating Scientist will participate in mission operations. Each Participating Scientist will be assigned to an instrument investigation even in cases of interdisciplinary investigations. Notices of Intent to propose are due July 1, 2005, and proposals are due September 1, 2005.

For more information: <http://nspires.nasaprs.com/> (select "Solicitations" then "Open Solicitations" then "NNH05ZDA001N" then go to Appendix B.23, "2001 Mars Odyssey Participating Scientists")

## **Living With a Star Targeted Research and Technology**

National Aeronautics and Space Administration

Deadline: Notice of Intent: **July 8, 2005**; Full Proposal: September 9, 2005

The goal of NASA's Living With a Star (LWS) program is to develop the scientific understanding needed for the United States to effectively address those aspects of the connected Sun Solar System that may affect life and society. The LWS Targeted Research and Technology (TR&T) program element solicits proposals leading to a physics-based understanding of the integral system linking the Sun to the Solar System both directly and via the heliosphere, planetary magnetospheres, and ionospheres. The TR&T program's objectives can be achieved by data analysis, theory, and modeling, and the development of tools and methods (e.g., software for data handling). LWS is a crosscutting initiative whose goals relate to many of NASA's exploration objectives.

For more information: <http://nspires.nasaprs.com/> (select "Solicitations" then "Open Solicitations" then "NNH05ZDA001N" then go to Appendix A.21 "Living With a Star Targeted Research and Technology").

## **High Temperature, Low Relative Humidity Polymer-Type Membranes**

U.S. Department of Energy

Deadline: **August 4, 2005**

The Department of Energy invites applicants to develop high temperature, low relative humidity polymer electrolyte-type membrane materials suitable for use in a polymer electrolyte-type membrane fuel cell. Development of alternative materials with performance at 120°C and 25-50% relative humidity exceeding that of Nafion® (at 80°C and 100% relative humidity) is desired. Current polymer electrolyte membranes (PEMs) used in fuel cells depend on the presence of water to obtain high proton conductivity. Therefore, fuel cells based on these membranes are limited to operating temperatures of 60-80°C and require external humidification to maintain optimum performance. Membranes that conduct protons at low relative humidity (RH) (i.e., 25-50% RH) and temperatures ranging from room temperature to 120°C have been identified as critical components in achieving system targets for automotive fuel cell applications. Based on the early stage of development of such membranes, this Announcement seeks innovative research leading to new candidate materials.

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/A1B4738B38518CAD852570140071FD3E?OpenDocument>.

## **Cottrell Scholar Awards**

Research Corporation

Deadline: **September 1, 2005**

The Cottrell Scholar Awards are designed for institutions and faculty members who wish to excel at both teaching and research. They enable recipients to implement their plans to become outstanding scientists and educators as well as tomorrow's academic and scientific leaders. The

awards also seek to reinforce faculty mentoring, communication, and a heightened appreciation for instruction in university science departments. Applicants should be tenure-track beginning faculty members whose primary appointment is in a Ph.D.-granting department of astronomy, chemistry, or physics. Eligibility is limited to those in the third year of their first tenure-track position during the calendar year of application. Those appointed to their first academic position in September of one year are eligible two years later. Faculty who assumed their tenure-track positions anytime in calendar year 2003 are eligible for applications with deadline for receipt of September 1, 2005. Consult the complete program guidelines for full details. Qualified faculty should request an application package from Research Corporation (see website below).

For more information: <http://www.rescorp.org/csa/csa.htm>.

### **Separation and Purification Processes (SPP)**

Division of Chemical and Transport Systems

National Science Foundation

Deadlines: **September 15, 2005**; March 1, 2006

The Separation and Purification Processes (SPP) subelement supports fundamental research on novel processes and materials for the separation of chemical species. These processes are central to the chemical, materials, energy, and pharmaceutical industries. A fundamental understanding of the interfacial, transport, and thermodynamic behavior of multi-phase chemical systems as well as quantitative descriptions of processing characteristics in these industries is critical for efficient resource management and effective environmental protection. The program encourages proposals that address emerging research areas and technologies, have a high degree of interdisciplinary thought and knowledge creation, and integrate education and research.

For more information: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13363](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13363).

### **Foundations**

Division of Mathematical Sciences

National Science Foundation

Deadline: First Tuesday in October, annually (**October 4, 2005**)

The program in Foundations supports research in mathematical logic and the foundations of mathematics, including proof theory, recursion theory, model theory, set theory, and infinitary combinatorics.

For more information: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5548](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5548).

## **Polymers**

Division of Materials Research

National Science Foundation

Deadline: **November 3, 2005**

Supports basic research and education on the materials aspects of polymer science that are largely experimental and multidisciplinary, with strong components of chemistry, physics, and materials science. The program addresses synthesis, structure, morphology, processing, characterization, and structure-property relationships of polymers at the molecular level, with particular focus on new materials or materials with superior properties. The polymers studied are principally synthetic, but there is also an interest in biopolymers.

For more information: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5357](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5357).

## **SOCIAL SCIENCES**

### **Healthy Marriage Research Initiative**

Administration for Children and Families

Department of Health & Human Services

Deadlines: Letter of Intent: **June 27, 2005**; Full Proposal: July 26, 2005

The Office of Planning, Research and Evaluation (OPRE), within the Administration for Children and Families (ACF), announces the availability of FY 2005 funds to support new research under the Healthy Marriage Research Initiative. Applications for both short-term (12-17 months) and long-term (up to 60 months) studies will be considered. OPRE will consider applications in three broad categories of evaluation and research: intervention studies; basic studies; and methodological and analytical studies.

For more information: <http://www.acf.hhs.gov/grants/open/HHS-2005-ACF-OPRE-OJ-0090.html>.

### **Cultural Anthropology Program**

National Science Foundation

Deadlines: **August 1** and January 1, annually

The Cultural Anthropology Program promotes basic scientific research on the causes and consequences of human social and cultural variation. The program solicits research proposals of theoretical importance in all substantive and theoretical subfields within the discipline of Cultural Anthropology. This program offers funding for both Senior and Dissertation Research.

For more information: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5388](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5388).

**National Quality Improvement Center on the Privatization of Child Welfare Services**  
Administration on Children, Youth and Families  
U.S. Department of Health and Human Services  
Deadline: **August 5, 2005**

The purpose of this funding announcement is to award a cooperative agreement for the creation of a national Quality Improvement Center (QIC) focused on identifying effective practices in the privatization of child welfare services. The QIC will assess needs and resources, then plan and implement research and demonstration activities to develop knowledge about improving child welfare services and systems through privatization. The QIC will be awarded funds for a planning period and an implementation phase. During the planning period, the QIC will engage in a collaborative process to review the literature, clarify the focus and refine the implementation plan for the remainder of its child welfare privatization knowledge-building activities. During the implementation phase, the QIC will sponsor (through sub-grants), monitor and evaluate research or demonstration projects that test a variety of privatization models or hypotheses at multiple sites. The QIC will also provide technical assistance to its sub-grantees, funded under this initiative.

For more information: <http://www.acf.hhs.gov/grants/open/HHS-2005-ACF-ACYF-CA-0027.html>.

**Documenting Endangered Languages**  
National Science Foundation  
National Endowment for the Humanities  
Deadline: **September 15, 2005**

This multi-year funding partnership between the National Science Foundation (NSF) and the National Endowment for the Humanities (NEH) supports projects to develop and advance knowledge concerning endangered human languages. Made urgent by the imminent death of an estimated half of the 6000-7000 currently used human languages, this effort aims also to exploit advances in information technology. Funding will support fieldwork and other activities relevant to recording, documenting, and archiving endangered languages, including the preparation of lexicons, grammars, text samples, and databases. Funding will be available in the form of one- to three-year project grants as well as fellowships for up to twelve months. At least half the available funding will be awarded to projects involving fieldwork. Limit on Number of Proposals: One proposal per prospective PI.

For more information: <http://www.nsf.gov/pubs/2005/nsf05590/nsf05590.htm>.

## **Drug Abuse Prevention Intervention Research**

National Institutes of Health

Deadlines: **October 1**, February 1, and October 1, annually

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: <http://grants.nih.gov/grants/guide/pa-files/PA-05-118.html>.

## **MULTIPLE DISCIPLINES**

### **Support of Advanced Coal Research at U.S. Colleges and Universities**

U.S. Department of Energy

Deadline: **July 7, 2005**

Applications cannot be submitted under the Master Announcement (DE-PS26-05NT42472-00). There are eighteen (18) separate Areas of Interest, identified below, to which an application can be submitted. The areas are: 1) Partitioning and Mechanism Studies for Mercury and Other Trace Metals within Coal-Fired Processes; 2) Water Usage in Future Power Generation Systems; 3) Gas Separations; 4) Computer-Aided Design of High-Temperature Materials; 5) Surface Modification of Alloys for Ultrasupercritical Coal-Fired Boilers; 6) Hydrogen Storage Materials; 7) Advancements in Assessment of Geological Reservoirs for CO<sub>2</sub> Sequestration; 8) Syngas and Hydrogen Combustion Reduced Order Reactions and Rate Constants; 9) Characterization of Atomic and Electronic Structure of Electrochemically Active SOFC Cathode Surfaces; 10) Gasification Transport Properties; 11) Coarse Grid Modeling; 12) Measurement and Analysis to Quantify the Contribution of Coal-Fired Utility Boiler Emissions to Ambient PM<sub>2.5</sub>; 13) Advanced Nitrogen Oxides; 14) Computational Chemistry in Support of Hydrogen from Coal; 15) SOFC Sealing Materials and Systems; 16) Separation and Handling of Nano-Sized Particles; 17) Development of Robust Sensor Networks for Intelligent Control of Advanced Coal Combustion Systems; 18) Innovative Concepts Phase II Program

For more information:

<https://e-center.doe.gov/iips/faopor.nsf/UNID/AFDC3E3018D30D1C8525700C005DB010?OpenDocument>.

### **Kansas Grazing Lands Conservation Initiative and the Kansas Grazing Lands Coalition**

National Resources Conservation Service

U.S. Department of Agriculture

Deadline: **July 14, 2005**

The purpose of this Request for Proposals (RFP) for a cooperative agreement between the recipient and USDA is to obtain assistance in delivering identified products which will assist

NRCS in Kansas. This assistance in the form of accomplishing and completing identified products (identified in the following information) will enable the NRCS to provide education, information, and technical assistance to landowners throughout the grazing lands in Kansas. The Kansas Grazing Lands Conservation Initiative's (Initiative) mission is to provide high quality technical assistance on privately-owned grazing lands on a voluntary basis and to increase the awareness of the importance of grazing-land resources.

For more information:

<http://www.fedgrants.gov/Applicants/USDA/NRCS/67401/USDA-GRANTS-060205-001/Grant.html>.

### **Replacement Grant to Increase Awareness of Adverse Effects of Environmental Tobacco Smoke (ETS)/Secondhand Smoke on Children**

U.S. Environmental Protection Agency (EPA)

Deadline: **July 18, 2005**

EPA seeks proposals and SF 424, 424A and B from eligible entities to undertake national education, training, and outreach projects that: promote awareness and understanding of the environmental health benefits of smoke-free environments for children, strengthen the capacity of families and communities to create and sustain a smoke-free environment for children, reduce children's exposure to ETS, and assess the effectiveness and sustainability of education and outreach strategies that reduce and/or prevent children's exposure to ETS.

For more information:

<http://www.fedgrants.gov/Applicants/EPA/OGD/GAD/OAR-ORIA-IED-05-17/Grant.html>.

### **2006 Howard Hughes Medical Institute Undergraduate Science Education Program**

Howard Hughes Medical Institute (HHMI)

Deadlines: Internal Competition: **July 22, 2005**

Agency deadline for Intent to Apply: May 12, 2005\*

Agency deadline for Application Materials: October 18, 2005

Limit on number of proposals: An invited institution may submit one proposal to this initiative (KU-Lawrence and KUMC are considered one institution). \*KU has completed the Intent to Apply (due on May 12, 2005), enabling the university to proceed with the application submission process.

This program will support initiatives that strengthen education in the biological sciences and other scientific disciplines as they relate to biology. The undergraduate program provides funding in the following four principal areas: 1) Student research and broadening access to science, 2) New, current, and future faculty development, 3) Curriculum, equipment, and laboratory development, and 4) Precollege and other outreach. Institutions may request support for any or all of these areas. The awards are expected to range from \$1.2 to \$2.2 million over a four year period. Interested proposers should submit (1) a three-page pre-proposal (describing the proposed program, including key personnel, and a generalized yearly budget) and (2) a short

vita for the PI, including funding history and current and pending support. Please submit this material electronically to Barbara Earl, manager of Proposal Services at KUCR, by 5:00 p.m. on July 22, 2005 ([bearl@ku.edu](mailto: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 proposal submissions (comprised of research administrators from KU-Lawrence and KUMC). The committee's intent is to select the proposer by August 5, 2005, thereby giving the investigator ten weeks to prepare for the proposal submission. If you have any questions about the solicitation or the process described above, please contact Barbara Earl.

For more information: <http://www.hhmi.org/grants/institutions/universities.html>.

### **Multidisciplinary University Research Initiative (MURI)**

U.S. Department of Defense

Deadlines: White Papers: **August 12, 2005**; Full Proposals: November 18, 2005

The Multidisciplinary University Research Initiative (MURI) program supports basic science and/or engineering research at institutions of higher education that is of critical importance to national defense. The program is focused on multidisciplinary research efforts that intersect more than one traditional science and engineering discipline. The Fiscal Year (FY) 2005 MURI competition is specifically for the twenty-six (26) topics listed below. Detailed descriptions of the topics can be found in Section VIII., SPECIFIC MURI TOPICS, of the full Announcement (see URL below). The areas are: (1) Cross-Disciplinary Approach to the Modeling, Analysis, and Control of Wireless Communications Networks; (2) Control of Networked Autonomous and Semi-Autonomous Vehicle Swarms Inspired by Nature; (3) Standoff Inverse Analysis and Manipulation of Electronic Systems (SIAMES); (4) Training for the Networked Battlefield; (5) Quantum Imaging; (6) Advanced Magnetic Resonance Force Microscopy to Single Nuclear Spin Detection; (7) Material Engineering of Lattice-Mismatched Semiconductor Systems; (8) Enabling Science for Future Force Insensitive Munitions; (9) Detection and Sensing Below the Shot Noise Limit; (10) Novel Dielectric Materials for High Pulsed Power Capacitors; (11) Multi-Energy Processing Science; (12) Realtime Sensing, Prediction, and Response to Evolving Nonlinear Wavefields; (13) Materials Manufacturing Processes, Interface Control, and Reliability of Nanostructure-Enhanced Devices for Energy Conversion and Realization of High Performance Systems; (14) GaN Based mm-Wave Sources; (15) Exploitation of the Coherent Structures in River and Estuarine Flows for DoD Operations in Denied Areas; (16) Magnetic Detection Science and Technology (17) Revolutionary Approaches to Hypersonic Materials; (18) Radically New Approaches for Robust Speech-to-Text; (19) Radiation Effects on Emerging Electronic Materials and Devices; (20) Extreme Light Material-Based Diagnostics; (21) Computational Modeling of Adversary Attitudes and Behaviors; (22) Water-Based Photobiological Production of Hydrogen Fuel; (23) Waveform Diversity for Full Spectral Dominance; (24) Closed-Loop Aerodynamic Flow Control; (25) Multistage Electromagnetic (EM) and Laser Launchers for Affordable, Rapid Access to Space; (26) Biomimetic Multifunctional Composites for "Autonomic" Aerospace Structures

For more information: <http://www.afosr.af.mil/oppts/afrfund.htm#Research> (scroll down to "Multidisciplinary University Research Initiative Program (MURI) Fiscal Year 2005").

### **High-End Instrumentation Grant (HEI)**

National Center for Research Resources (NCRR)

National Institutes of Health

Deadline: Letter of Intent: **August 15, 2005**; Full Proposal: September 20, 2005

The NCRR High-End Instrumentation Grant (HEI) program solicits applications from groups of NIH-supported investigators to purchase a single major item of equipment to be used for biomedical research that costs at least \$750,000. The maximum award is \$2,000,000.

Instruments in this category include, but are not limited to, structural and functional imaging systems, macromolecular NMR spectrometers, high-resolution mass spectrometers, cryoelectron microscopes and supercomputers. The NCRR intends to commit approximately \$21 million in FY2006 to fund approximately 11-16 new awards. Awards are for one year and for direct costs only. Cost sharing is not required. There is no limit on the number of applications an institution may submit provided the applications are for different types of equipment.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-05-124.html>.

### **Rehabilitation Research and Training Centers**

U.S. Department of Education

Deadline: **August 16, 2005**

Each Rehabilitation Research and Training Center (RRTC) has a major program of research in a particular area, such as mental illness, vocational rehabilitation, or independent living. The RRTCs provide long-term coordinated approaches to research and training in priority areas. The RRTCs must serve as centers of national excellence and national or regional resources for providers and individuals with disabilities and their representatives. RRTC awards are for five years, except that grants to new recipients or to support new or innovative research may be made for fewer than five years.

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

### **Small Grant Program for Conference Support**

Agency for Healthcare Research and Quality (AHRQ)

Deadlines: **August 20**, October 20, December 20, February 20, April 20, June 20, annually

The Agency for Healthcare Research and Quality (AHRQ), announces its continued interest in supporting conferences through its Small Grant Program for Conference Support. AHRQ seeks to support conferences that help to further its mission to improve the quality, safety, efficiency, and effectiveness of health care for all Americans. The types of conferences eligible for support include: 1) Research development - conferences where issues or problems in the delivery of health services are defined and a research agenda or strategy for studying them is developed; 2) Design and methodology - conferences where methodological and technical issues of major

importance in the field of health services research are addressed or new designs and methodologies are developed; 3) Dissemination conferences - where research findings are summarized and communicated broadly to organizations and individuals that have the capability to use the information to improve the outcomes, quality, access to, and cost and utilization of health care services; and/or, 4) Research Training, Infrastructure and Career Development-conferences where research faculty and students are brought together with users of research to develop, share and disseminate research products, experiences, curricula, syllabi, approaches or core competencies required to train individuals from multi- and interdisciplinary backgrounds or prepare developing or emerging research institutions to conduct and translate research related to fostering improvements in health care delivery in the US. AHRQ small conference grants are those with direct costs of \$50,000 or less over the project period.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-05-123.html>.

### **Science and Society (S&S)**

National Science Foundation

Deadlines: **August 23, 2005**; August 1 annually thereafter

S&S considers proposals that examine questions that arise in the interactions of engineering, science, technology, and society. There are four components: Ethics and Values in Science, Engineering and Technology (EVS); History and Philosophy of Science, Engineering and Technology (HPS); Social Studies of Science, Engineering and Technology (SSS); and Studies of Policy, Science, Engineering and Technology (SPS). The components overlap, but are distinguished by the different scientific and scholarly orientations they take to the subject matter, as well as by different focuses within the subject area. This program solicitation covers the following modes of support: S&S Scholars Awards; Standard Research Grants and Grants for Collaborative Research; S&S Postdoctoral Fellowships; S&S Professional Development Fellowships; Doctoral Dissertation Research Improvement Grants; Small Grants for Training and Research; Conference and Workshop Awards; Other Funding Opportunities

For more information: <http://www.nsf.gov/pubs/2005/nsf05588/nsf05588.htm>.

### **University Research Instrumentation Program (DURIP) Fiscal Year 2006**

Air Force Office of Scientific Research

U.S. Department of Defense

Deadline: **August 25, 2005**

Through this DURIP competition, the DoD intends to award approximately \$41 million for FY 2006, subject to the availability of funds. These funds will be awarded via grants made by Army Research Office (ARO), Office of Naval Research (ONR), and Air Force Office of Scientific Research (AFOSR). Grants will be for the purchase of research equipment costing more than \$50,000, for items that typically cannot be purchased within the budgets of single-investigator awards. DoD funding shall not exceed \$1,000,000 for items costing more than \$1,000,000. In FY 2005, 212 awards totaling \$43.9 million were made. Awards ranged from about \$60,000 to

\$990,000 averaging \$207,000; very few awards exceeded \$500,000. Sufficient funds are not available to meet all of the instrumentation needs of the universities. Awards, therefore, will be made to universities conducting, or demonstrably capable of conducting (with the proposed new equipment), research in areas of interest to the DoD. See the full solicitation for a list of research areas of interest to ARO, ONR, and AFOSR.

For more information: <http://www.afosr.af.mil/oppts/afrfund.htm#Research> (scroll down to “University Research Instrumentation Program (DURIP) Fiscal Year 2006”).

### **Research Experiences for Undergraduates (REU)**

National Science Foundation

Deadlines: **REU Site** proposals: **September 7, 2005**; August 17, 2006

REU Site proposals to the Antarctic Program: June 7, 2006; June 6, 2007. Note that the June 2, 2005, deadline is covered by the previous REU program solicitation, NSF 04-584.

**REU Supplement** requests: Varies with the research program. Contact the cognizant program officer for the award or proposal that would be supplemented.

The Research Experiences for Undergraduates program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects designed especially for the purpose. This solicitation features two mechanisms for support of student research: (1) **REU Sites** are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department, or on interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. A partnership with the Department of Defense supports REU Sites in DoD-relevant research areas. (2) **REU Supplements** may be requested for ongoing NSF-funded research projects or may be included as a component of proposals for new or renewal NSF grants or cooperative agreements. Undergraduate student participants in either Sites or Supplements must be citizens or permanent residents of the United States or its possessions.

For more information: <http://www.nsf.gov/pubs/2005/nsf05592/nsf05592.htm>.

### **Economics of Prevention and Treatment Services for Drug and Alcohol Abuse**

National Institutes of Health

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

This Program Announcement (PA) solicits research projects on the economics of prevention and treatment services for drug and alcohol abuse. Such research projects might emphasize any of the following subjects: (1) financing, including health insurance and/or payment mechanisms; (2) alternative delivery systems and managed care; (3) cost-benefit, cost-effectiveness, or cost-utility analyses; (4) service costs and production; and (5) methodological research.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PA-05-111.html>.

### **NIMH Career Transition Award (K22)**

National Institute of Mental Health (NIMH)

National Institutes of Health

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

The purpose of the NIMH Career Transition Award is to attract and train physician-scientists and senior postdoctoral investigators who wish to further their research and career development experience by providing support to initially train within the National Institute of Mental Health (NIMH) Division of Intramural Research Programs and then transitioning to a research program at a domestic U.S. extramural institution. The entire project period for this award consists of up to three years in an NIMH intramural laboratory, followed by continued research and career development support for up to two years at an extramural institution. The aggregate period of NIMH support under this award cannot exceed five years. Intramural Scholar Development Phase: Funds for this phase of the award will be derived from the NIMH Division of Intramural Research Programs, and will include a full-time salary (12 month employment), technical support and research expenses (supplies, travel, equipment, and health care). There are no indirect costs associated with this phase, and total costs will not exceed \$140,000 per year. Extramural Faculty Transition Phase: Allowable Costs: Funds for the extramural faculty transition phase will be provided through the non-competing K22, awarded to the domestic extramural institution to which the awardee is recruited. The NIMH will contribute up to 100 percent of the awardee's annual institutional base salary (based on a full-time, 12-month appointment) up to a maximum of \$90,000. A candidate for the NIMH Mentored Career Transition Award (K22) may not concurrently apply for or have another award pending for any other PHS award that duplicates the provisions of this award. Each applicant may submit one application.

For more information: <http://grants.nih.gov/grants/guide/pa-files/PAR-05-109.html>.

### **Jacob K. Javits Fellowships Program**

U.S. Department of Education

Deadline: **October 3, 2005**

The program provides financial assistance to students who have demonstrated: superior academic ability and achievement; exceptional promise; financial need to undertake graduate study leading to a doctoral degree or a master's degree in which the master's degree is the terminal highest degree in the selected field of study. The Department of Education awards fellowships in selected fields of study of the arts, humanities and social sciences. Application will be available July 11, 2005 from the website below.

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