

Research News & Funding

KU's Resource for Research Information

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UNIVERSITY NEWS

KUCR Announces Internal Competition for NSF Major Research Instrumentation (MRI) Program

KUCR is holding an internal competition for principal investigators interested in applying to the National Science Foundation's Major Research Instrumentation Program (MRI). The internal competition requires interested principal investigators to submit up to a two-page abstract describing the project scope, key personnel, and approximate project cost to Barbara Earl at KUCR, by 5:00 p.m. on December 16, 2002.



Details regarding the internal competition are available at www.research.ku.edu/kucr/events/announce/index.shtml. For more information, contact Barbara Earl, Manager of Proposal Services at 864-7781 or bearl@ku.edu.

AGENCY UPDATES

Whitaker Foundation Announces Final Deadlines for Biomedical Engineering Grant Programs

The Whitaker Foundation, a prominent sponsor of biomedical engineering research, is beginning to phase out its grants programs to coincide with its planned closing in 2006. As a result, the foundation has announced the **final grant deadlines** for the following programs: Biomedical Engineering Research Grants (December 2, 2002 for preliminary applications); Graduate Fellowships in Biomedical Engineering (December 11, 2002); Industrial Internships (December 16, 2002); and Teaching Materials (January 2, 2003 for preliminary applications.) For details on individual program announcements, visit www.Whitaker.org/grants/index.html.

Funding Opportunities

Engineering and Computer Science

Deadline: 2/3/03

www.nsf.gov/cgi-bin/getpub?nsf02188

Grants for Educational and Research Institutions

(International Society for Optical Engineering)

SPIE Grants are available to educational and research institutions. Uses of SPIE grants may include sending students to SPIE-sponsored events; developing new courses; efforts at general public education (e.g. public workshops); books and library subscriptions; and on occasion, purchase of supplemental teaching and research tools or equipment. Grants are not meant to support research. Maximum grant amount: \$5,000.

Deadline: 1/31/03

www.spie.org/web/courses/schol.html

Humanities

U.S. - Japan Policy

(U.S. - Japan Foundation)

This foundation supports a variety of policy-related studies, initiatives, and exchanges to promote stronger ties between the United States and Japan.

Deadline: 1/15/03, 7/15/03

<http://www.us-jf.org/policy.htm>

NSF/ONR Partnership in Electric Power Networks Efficiency & Security

(National Science Foundation and Office of Naval Research)

The goal of this solicitation is to build cross-interdisciplinary partnerships, which allow more unified, coherent research to ensure reliable, secure, and efficient electric power networks. In addition, this program will address socio-economic issues, environmental issues, new pedagogy and curricula to prepare a future workforce, and development of integrated tools provided by ONR or a credible utility system.

National Endowment for the Humanities Fellowships

(Newberry Library)

The Newberry Library is an independent research library concentrating in the humanities. It houses a non-circulating collection of rare books, maps, and manuscripts. The library's holdings span the history and culture of Western Europe from the Middle Ages to the mid-twentieth century and the Americas from the time of first contact between Europeans and Native Americans. The National Endowment for the Humanities Fellowships is for

established scholars to support projects in any field appropriate to the library's collections.

Deadline: 1/21/03

www.newberry.org/nl/research/L3rfellowships.html

Law

Research Grant Program

(Law School Admission Council)

This program funds empirical research related to legal education in the U.S. and in the common law schools of Canada. The program welcomes research proposals proceeding from any of a variety of methodologies, a potentially broad range of topics, and time frames that range from students' undergraduate consideration of legal education to their first jobs following law school.

Deadline: 2/1/03, 9/1/03

<http://www.lsac.org/LSAC.asp?url=lsac/lsac-legal-education-grant-program.asp>

Museums and Libraries

Museum Learning

(Institute of Museum and Library Services)

Applications are being invited for museums to use their collections, exhibits and services to strengthen learning in schools, in the home, and with other community organizations. Projects should focus on one or more of the following strategic goals: building public access; expanding educational services; reaching families and children; and using technology more effectively.

Deadline: 1/15/03

www.imls.gov/grants/museum/mus_gen.asp

Medicine and Life Sciences

Fellow-To-Faculty Transition Award

(American Heart Association)

This program provides funding for trainees with outstanding potential for careers as physician-scientists in cardiovascular or stroke research during the crucial period of career development that spans the completion of research training through the early years of the first faculty/staff position. The intent of the award is to provide a supportive mentored experience during this period of transition. It is anticipated that this award will 1) greatly enhance the awardee's chances of obtaining a high-quality faculty/staff appointment, 2) improve the awardee's success and retention in an investigative career in cardiovascular

science, and 3) develop the mentoring skills of the awardee as a potential future mentor.

Deadline: 1/13/03

www.americanheart.org

Radiopharmaceutical and Molecular Nuclear Medicine Science

(Department of Energy)

Applications are being invited for research to support the Office of Biological and Environmental Research Medical Applications Program in radiopharmaceuticals and molecular nuclear medicine. Program areas of interest involve multifunctional, highly designed tracer molecules for precise in vivo tagging and noninvasive imaging assay of cellular and subcellular elements at the dynamic organ function, onset and progression of disease, and response to successful or failing therapy. (Nov 22 *Federal Register*)

Deadline: 1/2/03 (LOI); 2/24/03 (Application)

<http://e-center.doe.gov>

Breast Cancer and the Environment Research Centers

(National Institutes of Health)

Applications are being invited to create a network of research centers in which multidisciplinary teams of scientists, clinicians, and breast cancer advocates work collaboratively on a unique set of scientific questions that focus on how chemical, physical, biological, and social factors in the environment work together with genetic factors to cause breast cancer.

Deadline: 12/31/02 (LOI); 2/11/03 (Application)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-03-001.html>

Signal Transduction and Cellular Regulation

(National Science Foundation)

This program supports the study of intracellular and transmembrane signal transduction mechanisms and functions. This includes signal reception, second messenger or signaling cascades, cellular mechanisms of recognition and defense, and the regulation of cell cycle progression.

Deadline: 1/10/03; 7/10/03

www.nsf.gov/bio/mcb/mcbcell.htm#ster

Animal Developmental Mechanisms

(National Science Foundation)

This program supports research on the nature, control, and evolution of those processes that comprise the life cycle of organisms. Approaches range from molecular genetic analysis of developmental processes to the experimental manipulation of whole organisms.

Deadline: 1/10/03; 7/10/03

www.nsf.gov/bio/ibn/ibndevelop.htm#ad

Ecosystem Studies

(National Science Foundation)

This program supports mechanistic or empirical investigations of whole-system ecological processes and relationships in the following areas: biogeochemistry, such as studies of decomposition, global and regional elemental budgets, and biotic versus abiotic controls of nutrient cycles; primary productivity, particularly ecophysiology within an ecosystem framework; and landscape dynamics with an emphasis on quantitative models of disturbances ecosystem resilience, and successional patterns.

Deadline: 1/10/03; 7/10/03

www.nsf.gov/bio/deb/debecological.htm

Pharmacy

Molecular Targets for Cancer Drug Discovery: Exploratory Grant

(National Institutes of Health)

The purpose of this program is to promote a full utilization of the base of knowledge of cancer biology for cancer-relevant target validation and drug discovery for treatment and prevention. This initiative is intended to attract young investigators to embark on career choices that include drug discovery, and also experienced investigators to apply their expertise to new ventures into cancer therapeutics.

Deadline: 2/1/03

<http://grants.nih.gov/grants/guide/pa-files/PA-03-020.html>

Physical Sciences and Mathematics

Mentoring Travel Grants for Women

(Association for Women in Mathematics)

The objective of the Mentoring Travel Grants for Women program is to help junior women to develop a long-term working and mentoring relationship with a senior mathematician. This relationship should help the junior mathematician to establish her research program and eventually receive tenure. Each grant will fund travel, subsistence, and other required expenses for an untenured women mathematician to travel to an institute or department to do research with a specified individual for one month.

Deadline: 2/1/03

www.awm-math.org/travelgrants.html#mentor

High Temperature Polymer Matrix Composites for Propulsion Transition

(Department of Defense)

The purpose of this exploratory and advanced development phased acquisition is to develop technology for affordable high temperature polymer matrix composites for near-term turbine engine applications. Processing, performance, scalability, and

system affordability are required to be demonstrated in this two-phase project.

Deadline: 12/16/02

<http://fundingopps.cos.com/cgi-bin/getRec?id=75064>

Scientific Computing Research Environments for the Mathematical Sciences (SCREMS)

(National Science Foundation)

The Division of Mathematical Sciences of the NSF plans a limited number of grants for the support of computing environments for research in the mathematical sciences. SCREMS proposals are for computing environments dedicated to research in the mathematical sciences. Proposals may request support for the purchase of computing equipment and limited support for professional systems administrators or programmer personnel for research computing needs. These grants are intended to support research projects of high quality that require access to advance computing

Deadline: 1/31/03

<http://www.nsf.gov/pubs/2003/nsf03504/nsf03504.htm>

National Space Weather Program

(National Science Foundation)

The National Space Weather Program (NSWP) is a multi-agency Federal program whose goal is to mitigate the adverse effects of space weather by providing timely, accurate, and reliable space environment observations, specifications and forecasts. Proposals are requested for basic research in solar, heliospheric, magnetospheric, ionospheric, and thermospheric physics aimed at meeting the goals of the NSWP.

Deadline: 1/16/03

www.nsf.gov/pubs/2003/nsf03500/nsf03500.htm

Collaborations in Mathematical Geosciences

(National Science Foundation)

The purposes of this program are to: 1) enable collaborative research at the intersection of mathematical sciences and geosciences, and 2) to encourage cross-disciplinary education through summer graduate training activities. Research topics should fall under two broad themes: 1) mathematical and statistical modeling of large, complex geosystems, or 2) representing uncertainty in geosystems.

Deadline: 2/20/03

www.nsf.gov/pubs/2003/nsf03508/nsf03508.htm

Social Sciences

Data Analysis Grants

(Alcoholic Beverage Medical Research Foundation)

This foundation supports innovative research on the use, and prevention of misuse of alcoholic beverages. Funding is provided for interdisciplinary research in the biological, medical, epidemiological, behavioral, and social sciences in this field.

Data Analysis grants are provided for the analysis of previously collected data. They include such major data sets in the U.S. as the various National Health and Nutrition Examination Surveys, National Health Interview Surveys, Multiple Causes of Death, Mortality Detail, and Fatal Accident Reporting System.

Deadline: 2/1/03, 9/1/03

www.abmrf.org/grants.htm

Substance Abuse Replication and Evaluation

(Department of Justice)

The Office of Juvenile Justice and Delinquency Prevention is seeking applications for an initiative to replicate the effectiveness of two school-based substance abuse prevention program models. OJJDP seeks to determine if positive outcomes from substance abuse prevention programs can be repeated in different communities and sustained over time. (November 15 *Federal Register*)

Deadline: 12/30/02

www.ncjrs.org/pdffiles1/ojjdp/s1000480.pdf

Graduate Research Fellowships

(Department of Justice)

The NIJ is inviting applications for dissertation research support in the areas of crime and justice. Successful candidates must demonstrate that the proposed research addresses a gap in knowledge critical to understanding a crime and justice issue; and employs a rigorous design appropriate to pursuing the research.

Deadline: 1/15/03, 9/15/03

www.ojp.usdoj.gov/nij

Multiple Disciplines

Professional Exchanges and Training with Former Soviet State

(Department of State)

Applications are being requested to encourage the growth of democratic institutions through international exchange programs in the U.S. and overseas involving current or potential leaders in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, the Kyrgyz Republic, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine and Uzbekistan. Supported projects may include internships, study tours, short-term non-technical experimental learning, and extended and intensive workshops and seminars. Proposed

projects must address specific themes, which vary by country.

Deadline: 1/10/03

<http://exchanges.state.gov/education/rfgps>

Transportation Statistics Research

(Department of Transportation)

Applications are being invited for projects that support the development of the field of transportation statistics and/or involve research or development in transportation statistics. Areas of interest include: quantifying the "safety culture" of transportation companies and identifying minimum data required and assessing its ability to predict accident risk; researching the utility of narrative text in accident and near-miss reports to identify precursors of an accident and developing tools to extract information from accident reports and measuring the vulnerability of the transportation system and users to crime and terrorism. (Nov. 5 *Federal Register*)

Deadline: 1/31/03

www.gpo.gov/su_docs/aces/aces140.html

Environmental Justice: Partnerships for Communication

(Environmental Protection Agency)

Applications are being requested to promote research that addresses the disproportionate effects of environmental toxicants and occupational hazards in low-income, immigrant, and minority communities. The program is designed to encourage community outreach, training, research, education, and evaluation efforts that will catalyze activities to reduce exposure to and health impact of environmental and occupational stressors on underserved populations.

Deadline: 12/13/02 (LOI); 1/14/03 (Application)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-03-002.html>

Bioengineering Research Partnerships

(National Institutes of Health)

Applications are invited for R01 awards to support Bioengineering Research Partnerships (BRP) basic and applied multi-disciplinary research that addresses important biological or medical research programs. A BRP is a multi-disciplinary research team applying an integrative, systems approach to develop knowledge and/or methods to prevent, detect, diagnose, or treat disease or to understand health and behavior. The partnership must include appropriate bioengineering or allied quantitative sciences in combination with biomedical and/or clinical investigators.

Deadline: 12/20/02, 7/22/03 (LOI); 1/23/03, 8/22/03

(Application)

<http://grants.nih.gov/grants/guide/pa-files/PAR-03-032.html>

Research News and Funding is a bulletin that provides funding opportunity information for the faculty and research community at the University of Kansas. Subscriptions are available by campus mail, e-mail, or on-line at <http://www.research.ku.edu/kucr/fundops/index.shtml>. Please contact Angie Loving (864-7472 or aloving@ku.edu) for subscription requests.