

Funding Opportunities Bulletin **January 2008**

This random compilation of funding opportunities is provided by KUCR Proposal Services as a resource for Kansas University Researchers. We encourage you to utilize the campus subscription to *Community of Science (COS)* to find funding opportunities specifically tailored to your research area based on keywords you provide. *COS* is easy to use and offers other valuable services that are helpful to researchers. Access is available at this site: <http://www.cos.com/> If questions regarding *COS*, please contact Alicia Reed at amreed@ku.edu or 864-7771, or Dan Coonfield at dcoonfie@ku.edu or 864-7404.

Click on the links below to go directly to the named section

[BUSINESS](#)

[EDUCATION](#)

[ENGINEERING & COMPUTER SCIENCE](#)

[FINE ARTS](#)

[HUMANITIES](#)

[INTERNATIONAL AREA STUDIES](#)

[MEDICINE & LIFE SCIENCES](#)

[PHYSICAL SCIENCES & MATHEMATICS](#)

[SOCIAL SCIENCES](#)

[MULTIPLE DISCIPLINES](#)

BUSINESS

See also opportunities listed under MULTIPLE DISCIPLINES

Business Organizations

Alfred P. Sloan Foundation, Standard of Living and Economic Performance Industries

Deadline: Continuous - Letters of inquiry are the recommended initial step

The Business Organizations program (formerly "Role of the Corporation") supports academic research and scholarship aimed at painting a realistic picture of how corporations and other business organizations function, with special emphasis on how the people in them actually behave, how they are motivated, and how they are rewarded. The foundation has sought to increase understanding of these organizations because of the enormous effect they have on the standard of living and quality of life for most people in the United States and around the world.

Much of the academic work concerned with the nature and purpose of business organizations has been carried out over the years by scholars in economics, corporate law, and business. The foundation has supported work in each of these areas, and plans to continue supporting innovative work in these fields as well as others, such as sociology, anthropology, political science and business history.

For further information: http://www.sloan.org/programs/stdnrd_role.shtml

Research Projects

Chartered Institute of Management Accountants (CIMA); Research and Development Program
Deadline: Continuous-applications for sponsorship can be made at any time during the year on an ad hoc

CIMA (the Chartered Institute of Management Accountants) is a global body that represents members and supports the wider financial management and business community. Its key activities relate to business strategy, information strategy, and financial strategy. Its focus is to qualify students, to support both members and employers, and to protect the public interest.

CIMA's global research and development activities include, but are not limited to, sponsoring

- self-nominated (ad hoc) research project funding;
- calls for research projects into specific areas (initiatives);
- directed research (a direct invitation to a specific researcher for a proposal on a given topic);
- and attending conferences, workshops and seminars;
- a program of lectures by visiting professors; and
- the CIMA Professor of Accounting and Financial Management.

The purpose of these activities is to add value to members and more widely to accountants in business, either by producing written output, or providing discussion opportunities for members and researchers. Participants in the research program include volunteer members, technical staff, academics, consultants, and other business partners.

To support and complement the technical development agenda the research agenda follows major development themes. CIMA encourages research effort into a wide range of topics.

Examples of some of the current themes are

- the impact of climate change on business,
- customer value,
- enterprise governance,
- narrative reporting,
- risk management,
- corporate governance,
- external reporting and board effectiveness,
- transformation of the finance function,
- improving effectiveness in organizations,
- performance management, and
- management insight and analysis to improve decision making.

CIMA Technical does not fund research into accounting education.

For further information: <http://www.cimaglobal.com/cps/rde/xchg/SID-0AAAC544-64B2638E/live/root.xml/1551.htm>

Gordon Cain Fellowship in Technology, Policy, and Entrepreneurship

Chemical Heritage Foundation; Arnold and Mabel Beckman Center

Deadline: January 15, 2008

The Chemical Heritage Foundation (CHF) invites applications for the Gordon Cain Fellowship in Technology, Policy, and Entrepreneurship. The Gordon Cain fellow will spend the year in residence at CHF and will carry out historical research on the development of the chemical industries. The outcome of this research should further our understanding of the relationship between science, technology, policy, and entrepreneurship and shed light on the complex development of modern society and commerce. At the beginning of the fellowship year, the Cain Fellow and CHF will convene a committee of leading academics to discuss the historical territory around policy, technology, and entrepreneurship, providing counsel and feedback to both the fellow and to CHF.

The successful candidate for the Gordon Cain Fellowship should have a Ph.D. or equivalent in hand at the time of application.

For further information: <http://www.chemheritage.org/research/research-nav1-cain.html>

EDUCATION

See also opportunities listed under MULTIPLE DISCIPLINES

Research Grants Program

American Educational Research Association (AERA)

Deadline: January 4, 2008; February 22, 2008

With support from the National Science Foundation (NSF) and the National Center for Education Statistics (NCES) of the Institute of Education Sciences, the American Educational Research Association (AERA) Grants Program announces its Research Grants Program. The program's goals are (1) to stimulate research on issues related to U.S. education policy and practice using NCES and NSF data sets; (2) to improve the educational research community's firsthand knowledge of the range of data available at the two agencies and how to use them; and (3) to increase the number of educational researchers using the data sets. The program supports research projects that are quantitative in nature, include the analysis of existing data from NCES and NSF, and have U.S. education policy relevance. AERA invites education policy- and practice-related research proposals using NCES, NSF, and other national data bases.

Applications are encouraged from a variety of disciplines, such as but not limited to, education, sociology, economics, psychology, demography, statistics, and psychometrics. Research topics may cover a wide range of policy- or practice-related issues that include but are not limited to,

- science and mathematics education;
- the supply (pipeline) of students taking mathematics and science courses;
- teachers and teaching, including supply, quality, and demand;
- policies and practices related to student achievement and assessment;
- policies and practices that influence student and parental attitudes;
- contextual factors (individual, curricular, and school related) in education;

- educational participation and persistence (kindergarten through career entry);
- at-risk students;
- early childhood education;
- U.S. education in an international context;
- school finance;
- the quality of educational institutions; and
- methodological studies.

Researchers must include the analysis of data from at least one NSF or NCES data set in the project. Additional large-scale nationally representative data sets may be used in conjunction with the obligatory NSF or NCES data set. If international data sets are used, the study must include U.S. education.

Successful principal investigators may consult with NCES or NSF staff regarding their proposed research projects and the handling of NCES, NSF, and other federal agency data sets pertinent to their projects. Successful applicants will be expected to submit for review a progress report and a final report. Research grantees' final reports should be of a quality and in a format suitable for publication in a scholarly journal.

For further information: http://www.aera.net/grantsprogram/res_training/res_grants/RGFly.html

Research Grant Program

Association for Institutional Research (AIR); AIR/IES-NCES/NSF/NPEC Grant Program - Improving Institutional Research in Postsecondary Education Institutions

Deadline: January 16, 2008

The Association for Institutional Research (AIR), with support from the Institute of Education Sciences and National Center for Education Statistics (IES-NCES), the National Science Foundation (NSF), and the National Postsecondary Education Cooperative (NPEC), sponsors a grant program titled: Improving Institutional Research in Postsecondary Educational Institutions. The goals of the program are to provide professional development opportunities to doctoral students, institutional researchers, educators and administrators, and to foster the use of the federal databases for institutional research in postsecondary education.

The Research Grant Program component of the AIR/IES-NCES/NSF/NPEC Grant Program provides grants to principal investigators (PIs) to conduct research on postsecondary education using the IES-NCES and NSF national databases or conduct studies that increase the understanding and knowledge of a specific issue area identified by the NPEC Executive Committee as critically important to the postsecondary education community. This year the NPEC focus is "Preparation, Access, and Success of Underserved and/or Understudied Students in Postsecondary Education." Funded projects promise a significant contribution to the national knowledge of the nature and operation of postsecondary education and contribute to the professional development of personnel working in postsecondary education. Research grant projects must use one or more of the national postsecondary education databases of IES-NCES

or NSF, must focus on the area of preparation for postsecondary education, broadly defined, or both. AIR will accept proposals for doctoral dissertation improvement research grants.

For further information: <http://www.airweb.org/?page=818>

Youth Violence Prevention through Community-Level Change (U49)

Department of Health and Human Services (HHS)

Deadline: February 5, 2008

The purpose of the program is to announce the availability of fiscal year (FY) 2008 funds for a cooperative agreement to assess the efficacy or effectiveness of interventions designed to change community characteristics and social processes to reduce rates of youth violence perpetration and victimization. Youth violence has been linked to a variety of factors, including individual, family, community, and societal characteristics. Although much research has been conducted on interventions to change the characteristics of individuals and families, fewer interventions have focused on changing variables at the broader community level. Funds are available to examine the effects of a community-level intervention on rates of youth violence. Funds are intended to support new evaluations rather than to supplement or support long-term extensions of existing effectiveness studies of community-level interventions.

For further information: <http://grants1.nih.gov/grants/guide/rfa-files/RFA-CE-08-001.html>

Informal Science Education (ISE) - NSF 06-520

National Science Foundation (NSF)

Deadline: March 13, 2008

The Informal Science Education (ISE) program invests in projects that develop and implement informal learning experiences designed to increase interest, engagement, and understanding of science, technology, engineering, and mathematics (STEM) by individuals of all ages and backgrounds, as well as projects that advance the theory and practice of informal science education. Projects may target either public audiences or professionals whose work directly affects informal STEM learning. ISE projects are expected to demonstrate strategic impact, collaboration, and innovation.

For further information: <http://www.nsf.gov/pubs/2006/nsf06520/nsf06520.htm>

ENGINEERING & COMPUTER SCIENCE

See also opportunities listed under MULTIPLE DISCIPLINES

Broadening Participation Research Initiation Grants in Engineering (BRIGE) NSF 07-589

National Science Foundation (NSF)

Deadline: February 8, 2008

With the goal of broadening participation to all engineers including members from groups underrepresented in the engineering disciplines, the Directorate for Engineering (ENG) at NSF offers a research initiation grant funding opportunity.

These grants are intended to increase the diversity of researchers who apply for and receive ENG funding to initiate research programs early in their careers, including those from under-represented groups, engineers at minority-serving institutions, and persons with disabilities.

By providing these funding opportunities, ENG intends to further broaden participation of engineering researchers who share NSF's commitment to diversity in the following ways:

- Expand the population of role models who will interact with an increasingly diverse student population, the workforce of the future;
- Increase the number of engineering researchers at minority serving institutions actively and competitively engaged in research as independent investigators, thereby creating new research opportunities for students from underrepresented groups; and
- Fund engineering research projects that use innovative ways to attract and retain members of under-represented groups to careers in engineering.

For further information: <http://www.nsf.gov/pubs/2007/nsf07589/nsf07589.htm>

Strategic Technologies for Cyberinfrastructure (STCI)

National Science Foundation (NSF)

Deadline: February 14, 2008

The primary purpose of the Strategic Technologies for Cyberinfrastructure Program (STCI) is to support work leading to the development and/or demonstration of innovative cyberinfrastructure services for science and engineering research and education that fill gaps left by more targeted funding opportunities. In addition, it will consider highly innovative cyberinfrastructure education, outreach and training proposals that lie outside the scope of targeted solicitations.

The National Science Foundation provides a number of targeted funding opportunities for the development of cyberinfrastructure, for the provision of cyberinfrastructure services, and for related education, outreach and training. However, cyberinfrastructure technology and training are broad continua. It is anticipated that, at any given time, there will be ideas that do not map neatly onto the extant portfolio of cyberinfrastructure solicitations yet have a high potential impact on research and education. Accordingly, the Strategic Technologies for Cyberinfrastructure program will accept proposals for cyberinfrastructure development,

demonstration, education, outreach and training activities that are not aligned with the specific goals of other existing cyberinfrastructure funding opportunities and which have the potential to transform multiple areas of research or education.

For further information:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=500066&org=NSF&sel_org=NSF&from=fund

Process and Reaction Engineering

National Science Foundation (NSF)

Deadline: March 1, 2008

The Process and Reaction Engineering portion of the Chemical Reaction Processes Program funds research in: chemical reaction engineering, process design and control, and reactive polymer processing. Within these three areas, research supported is focused as follows:

1. Chemical Reaction Engineering - the area encompasses the interaction of transport phenomena and kinetics in reactive systems and the use of this knowledge in the design of complex chemical reactors. Present focus areas include non-traditional reactor systems such as membrane reactors and reactions in supercritical fluids; novel activation techniques such as plasmas, acoustics, and microwaves; and multifunctional systems synthesis such as "smart" molecules, "chemical laboratory on a chip", and "chemical factory on a chip" concepts.
2. Process Design and Control - these areas encompass the design and optimization of complex chemical processes and the dynamic modeling and control of process systems and individual process units. High priority research topics include simultaneous product and process design; increased plant efficiency by algorithms that communicate across design levels and incorporate multiple criteria such as profitability, safety, operability, environmental sustainability and societal concerns; and new sensor development to measure composition, product properties, morphology, etc.
3. Reactive Polymer Processing - program scope is limited in the polymerization area to research that integrates synthesis (chemical reaction of monomers to form polymer chains or complexes) and processing steps (steps that orient and anneal polymer melts and affect the long range conformations and consequently their properties). Typical projects are in the areas of emulsion and miniemulsion polymerization, reaction injection molding, etc. Program focus is on addressing environmental concerns while producing tailor-made molecules and materials.

For further information:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13361&org=CBET

Fluid Dynamics

National Science Foundation (NSF)

Deadline: March 1, 2008

The Fluid Dynamics and Hydraulics Program supports fundamental research and education on mechanisms and phenomena that govern fluid flow. Topics include: hydrodynamic stability; transitional flows and turbulence; Newtonian and non-Newtonian fluid mechanics; sediment transport, waves and coastal engineering; multi-scale, multi-phenomena models and computations; bio-fluid mechanics, micro and nanoscale flow phenomena, and microfluidics. Proposed research should contribute to the basic understanding of fluid dynamics, thus enabling the better design, predictability, efficiency and control of systems that involve fluids. Proposals addressing innovative uses of fluids in materials development, manufacturing, biotechnology, nanotechnology, clinical diagnostics and drug delivery, sensors development and integration, energy and the environment, are encouraged.

For further information:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13365&org=CBET

Chemical and Biological Separations (CBS)

National Science Foundation (NSF)

Deadline: March 1, 2008

The Chemical and Biological Separations (CBS) program supports fundamental research on novel methods and materials for separations processes at the molecular level. These separations processes are central to the chemical, biochemical, 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 the process-oriented 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 coupled with knowledge creation, and must integrate education and research.

Newer areas of emphasis include separation of biological molecules and separations that lead to environmentally benign processing. Much of the current work involves the investigation of new membrane materials such as novel polymers, zeolites, mixed matrix materials, carbon nanotubes, biological and biomimetic materials, and glasses. Projects on modeling transport processes--especially at the molecular level--in membranes are supported by the program. For the hydrogen economy membranes that selectively transport atomic, molecular or ionic hydrogen and oxygen are required. In fuel cells, current membrane materials often lack sufficient selectivity to eliminate critical contaminants or to prevent leakage transport between fuel-cell compartments; CBS supports work to overcome these barriers. Adsorption on materials ranging from hydrogels to microporous materials is being studied. New processes for drinking water purification rely on the development of new materials for membranes and adsorbents, which are supported by CBS.

For further information:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13363&org=CBET

Interfacial Processes and Thermodynamics

National Science Foundation (NSF)

Deadline: March 1, 2008

The Interfacial Processes and Thermodynamics program supports research in engineering science areas related to interfacial phenomena, mass transport phenomena, separation science, and phase equilibrium thermodynamics. Recently, emphasis is placed on molecular engineering approaches as applied to processing of soft materials, often with bio-molecular functions at the micro and nanoscale. Methods such as molecular simulation are often used, in addition to experimental confirmation. New theories and simulation approaches determining the thermodynamic properties of fluids and fluid mixtures in biological and other fluids with complex molecules in the bulk phase and at interfaces, and in a nano-environment are supported, if funds are available. The program has had a traditional focus on relevance to engineering aspects of the chemical processing industry; however, newer areas of emphasis include basic research related to advanced materials, biomedical and biotechnology industries, energy processing, microelectronics, and optics industries. Research that leads to more economical and environmentally benign processing and novel materials for sensors are other areas of interest, if funds are available.

For further information:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13362&org=CBET

FINE ARTS

Patricia and Phillip Frost Fellowship

Smithsonian Institution (SI); Smithsonian American Art Museum (SAAM)

Deadline: January 15, 2008

The Smithsonian American Art Museum and its Renwick Gallery invite applications for research fellowships in art and visual culture of the United States. Fellowships support independent research, dissertation research, or a combination of dissertation and curatorial research.

The Patricia and Phillip Frost Fellowship is offered to pursue research in American art and visual culture. Topics that match the interests of the museum and its research staff are supported.

For further information: <http://www.si.edu/ofg/fell.htm#fsaam>

Fellowships for Creative Writers

National Foundation for the Arts and the Humanities

Deadline: March 1, 2008

The National Endowment for the Arts (NEA) Literature Fellowships are awarded annually to creative writers and translators. Each fellowship area is offered every other year. The Literature

Fellowships for FY 2008 (described in this record) will be offered in the field of fiction/creative non-fiction.

For further information: <http://www.arts.endow.gov/grants/apply/Lit/Calendar.html>

Exhibition Awards

Tremaine Foundation, Emily Hall, Art Programs

Deadline: March 7, 2008

The Exhibition Award applications will be accepted on a biennial basis from any curator applying in partnership with an established non-profit exhibition space. The Tremaine Foundation invites potential candidates to develop those thematic concepts of which they have always dreamed, to rise above the conventional by the exploration and submission of ideas reflecting a unique vision.

The foundation encourages applicants to think expansively, moving beyond existing priorities and opportunities. Through the award, the foundation seeks to give life to those thematic shows that are sufficiently experimental, challenging, and focused in their theses for which funding is not yet forthcoming. This award is intended to provide funding for exhibitions at the beginning stage of their development and to provide the curator with the support needed to fully explore the concept and realize the exhibition.

Innovative contemporary art (post 1960) thematic exhibition concepts at the beginning stage of development are eligible. The exhibition space must be located within the United States.

Single artist exhibitions, retrospectives and artist collective exhibitions are ineligible.

For further information:

http://www.tremainefoundation.org/Content/The_Emily_Hall_Tremaine_Exhibition_Award.asp

HUMANITIES

See also opportunities listed under MULTIPLE DISCIPLINES

National Endowment for the Humanities (NEH) Collaborative Humanities Research Fellowship

National Council for Eurasian and East European Research (NCEEER)

Deadline: February 15, 2008

The National Endowment for the Humanities (NEH) is pleased to announce the open, merit-based competition for Collaborative Humanities Research Fellowships for the academic year 2008-2009. Postdoctoral scholars from the United States in the humanities may apply for collaborative research opportunities at universities and institutes in any country of East-Central Europe and New Independent States (NIS) of the former Soviet Union. The National Endowment

for the Humanities manages this program with funding allocated by the Congress of the United States.

Topics are not restricted to regional or area studies; however, the project must involve at least one collaborator from the region and research in the region itself. Especially encouraged are applications with a strong regional focus and the potential to broaden and strengthen international academic linkages beyond the traditional centers such as Moscow, St. Petersburg, Warsaw, and Prague.

For further information: http://www.nceeer.org/Programs/NEH_fellowship.html

NWSA Graduate Scholarship Award

National Women's Studies Association (NWSA)

Deadline: March 1, 2008

The National Women's Studies Association (NWSA) will award this scholarship to a student who, in the fall of the year of the award, will be engaged in the research or writing stages of a master's thesis or Ph.D. dissertation in the interdisciplinary field of women's studies. The research project must be on women and must enhance the NWSA mission.

For further information: <http://www.nwsa.org/students/scholarships/gradscholguide.php>

Herbert Hoover Travel Grant

National Archives and Records Administration (NARA)

Deadline: March 1, 2008

The purpose of the Herbert Hoover Travel Grant is to fund travel to the Herbert Hoover Presidential Library in West Branch, Iowa. The Herbert Hoover Presidential Library Association is a nonprofit support group for the Hoover Presidential Library-Museum and Hoover National Historic Site in West Branch. The program, funded entirely through contributions from private individuals, corporations, and foundations, is specifically intended to promote the study of subjects of interest and concern to Herbert Hoover, Lou Henry Hoover, their associates, and other public figures as reflected in the library's collections.

For further information: <http://www.hooverassociation.org/travelgrantaward.html>

INTERNATIONAL AREA STUDIES

See also opportunities listed under HUMANITIES and MULTIPLE DISCIPLINES

Asian Art and Religion Fellowship Program

Asian Cultural Council (ACC)

Deadline: February 1, 2008

The Asian Cultural Council (ACC) supports cultural exchange between Asia and the United States in the performing and visual arts. Grants are made in the following fields: archaeology, architecture (design, theory, and history), art history, art and architectural conservation, crafts, dance, film, museology, music, painting, photography, printmaking, sculpture, theater, and video.

The Asian Art and Religion Fellowship Program focuses on the relationship between the artistic and religious traditions of Asia. The program enables American scholars, specialists, and artists to conduct research and undertake projects in Asia involving the interdisciplinary analysis of religion and the arts. Asian Art and Religion Fellowships have supported research in India on the iconography of Hindu deities, in Indonesia on the relationship between tantric religious thought and masked performance, and in Thailand on Buddhist architecture of northern Thailand.

For further information: <http://www.asianculturalcouncil.org/programs.html>

ACOR-CAORC Postgraduate Fellowships

American Schools of Oriental Research (ASOR)

Deadline: February 1, 2008

The American Center of Oriental Research (ACOR)-Council of American Overseas Research Centers (CAORC) Postgraduate Fellowships are intended to support postdoctoral scholars and scholars with a terminal degree in their field, pursuing research or publication projects in the natural and social sciences, humanities, and associated disciplines relating to the Near East. Fellows will reside at the ACOR facility in Amman, Jordan while conducting their research.

For further information: <http://www.bu.edu/acor/1page08-09.htm>

International Affairs Education Program Grants

Jackson Foundation, Henry M.

Deadline: March 1, 2008

The Henry M. Jackson Foundation's primary mission in the international affairs field continues to be the enhancement of two institutions dedicated to academic study and policy research: the Henry M. Jackson School of International Studies at the University of Washington, and the National Bureau of Asian Research. These institutions reflect Senator Jackson's commitment to the development of new leadership in international affairs and a recognition of the importance of advanced foreign policy research and analysis. To a very limited extent, the foundation supports

other initiatives which advance education, scholarship, and public understanding of international affairs.

Occasionally, the foundation seeks out partners to hold public programs that convene grantmakers, non-profit organizations, and local government leaders on issues that are central to the Jackson legacy in an effort to leverage additional resources for those concerns. On a limited basis, the foundation supports conferences, forums, and lectures that focus on relevant and timely international issues.

For further information: http://www.hmjackson.org/index.php?p=International_Affairs&s=218

Robert and Lisa Sainsbury Fellowships

Sainsbury Institute for the Study of Japanese Arts and Cultures (SISJAC)

Deadline: March 1, 2008

Designed to strengthen academic ties with Japan studies programs in the United States and Canada, the Sainsbury Institute for the Study of Japanese Arts and Cultures (SISJAC) offers fellowships on an annual basis to scholars.

Any area of Japanese culture is eligible, though preference will be given to applications having a strong visual component.

The fellowships are intended to provide recipients with an opportunity to work in a scholarly environment conducive to completing a publication project. Fellows will be expected to reside in the United Kingdom and to participate, depending on their research interests, in the scholarly activities and intellectual exchange of either the University of East Anglia in Norwich or the School of Oriental and African Studies (SOAS), University of London. Fellows will be expected to give at least one lecture at either place.

For further information: <http://www.sainsbury-institute.org/fellowships.html>

Seymour Melman Fellowship Program

Institute for Policy Studies (IPS)

Deadline: March 15, 2008

The Institute for Policy Studies is pleased to sponsor the Seymour Melman Fellowship Program to underwrite research and writing in the fields of demilitarization and workplace democracy. As military budgets in the United States continue to climb, funding a limitless war on terror and a catastrophic war in Iraq, the need has never been clearer for a new generation of scholars examining the ways and means of militarism, and the alternatives to it. Likewise in a climate of concerted efforts to erode workers' rights, research and writing on workplace democracy is critically needed.

For further information: <http://www.ips-dc.org/melmanfellow.htm>

MEDICINE & LIFE SCIENCES

See also opportunities listed under MULTIPLE DISCIPLINES

National Institutes of Health Director's Pioneer Award (DP1)

Department of Health and Human Services (HHS); National Institutes of Health (NIH)

Deadline: January 16, 2008

The National Institutes of Health's (NIH's) success depends on the creativity of investigator-initiated research, much of it supported by the R01 grant mechanism. However, many scientists who participated in the development of the NIH Roadmap expressed the view that additional means might be necessary to identify scientists with ideas that have the potential for high impact, but that may be too novel, span too diverse a range of disciplines, or be at a stage too early to fare well in the traditional peer review process. A group of distinguished outside consultants proposed that NIH establish a completely new program to encourage highly innovative approaches to biomedical research that have the potential to lead to significant advances in human health.

In response, NIH launched the NIH Director's Pioneer Award (NDPA) Program in 2004. This program is meant to complement NIH's traditional, investigator-initiated grant programs by supporting individual scientists of exceptional creativity who propose pioneering approaches to major contemporary challenges in biomedical research. The term "pioneering" is used to describe highly innovative approaches that have the potential for producing an unusually high impact. Biomedical research is defined broadly in this program as encompassing scientific investigations in the biological, behavioral, clinical, social, physical, chemical, computational, engineering, and mathematical sciences.

For further information: <http://grants1.nih.gov/grants/guide/rfa-files/RFA-RM-08-013.html>

Pilot and Exploratory Projects in Palliative Care of Cancer Patients and Their Families

American Cancer Society

Deadline: Letters of Intent & Bio-Sketch: February 1, 2008

Full Proposal Invitations: February 18, 2008

Full Proposal Deadline: April 1, 2008

The development of the specialty of palliative medicine has been a critical step in addressing the unmet needs of patients with serious illness and their families and the growth of this field has been remarkable. Nevertheless, the field faces sizeable challenges if care for seriously ill patients and their families is to improve. Unlike other areas of medicine, the knowledge base to support the basic elements of palliative care clinical practice (i.e., pain and symptom management, communication skills, care coordination) is small and inadequate and systems of care that have been developed to support the needs of patients and families have yet to be evaluated. Over the past eight years, a series of reports from the Institute of Medicine, the National Institutes of Health, and the American Academy of Hospice and Palliative Medicine have called for substantial investment in palliative care research to address these knowledge gaps, but despite billions of dollars spent on research in cardiovascular disease, chronic

obstructive pulmonary disease (COPD), Alzheimer's and related dementias, and cancer, there has been almost no investment in research that might significantly alleviate the physical symptoms; psychological distress; and personal care, family, and social needs of older persons living with advanced illness.

One of the major contributing factors to low levels of research support for care of people with serious and complex illnesses is that there is no federal agency specifically charged with that mission. With few exceptions, the National Institutes of Health (NIH) are disease-specific and thus palliative care with its applicability to all serious illnesses does not fit well within one particular institute. The National Cancer Institute (NCI), the National Institute on Aging (NIA), the Agency for Healthcare Research and Quality (AHRQ), and the National Institute of Nursing Research (NINR) have supported some research in palliative care but it is not a priority in any of these agencies' annual budgets.

Pilot data results are typically needed before a federal agency (e.g., NIH, VA) or the American Cancer Society will consider funding a research project. In an effort to support clinician investigators conducting patient-oriented research in palliative care who wish to maximize their chances of larger extramural funding, the American Cancer Society, in parallel with the National Palliative Care Research Center (NPCRC), is soliciting applications for pilot/exploratory research grants in palliative care of cancer patients and their families.

FOCUS OF RFA: This RFA provides funding for investigators performing pilot and exploratory research studies whose purpose is to test interventions, develop research methodologies, and explore novel areas of research in palliative care of cancer patients and their families. A condition of funding is a clearly defined plan as to *how* the investigator will use the results of the project to develop larger, extramurally funded research projects.

This RFA is **limited** to applications that focus on palliative care research projects for seriously ill cancer patients and their families in three (3) specific areas:

1. Exploring the relationship of pain and other distressing symptoms on quality and quantity of life, independence, function, and disability and developing interventions directed at their treatment in patients with advanced and chronic illnesses;
2. Studying methods of improving communication between adults living with serious illness, their families and their health care providers;
3. Evaluating models and systems of care for patients living with advanced illness and their families.

As a condition of accepting the award, each recipient of this grant, will agree to the following:

- To attend the required meetings of the NPCRC;
- To present results of the funded research at the required NPCRC and ACS meetings;
- To prepare annual progress reports for each year of funding and a final report at the conclusion of the award period.
- To list the American Cancer Society as funding this study on all publications and presentations.

It is anticipated that a total of \$500,000 will be available for 5 to 7 applications selected through the Society's peer review system.

This mechanism has a three-step application process:

Step 1: Eligible candidates are required to first *submit a letter of intent (LOI) electronically* along with their biosketch no later than February 1st, 2008.

Step 2: *Full proposals will be accepted by invitation only.* Applicants will be notified via email by February 18th, 2008 if invited to submit a full proposal.

Step 3: Applicants invited to submit applications must submit their *full application electronically* and in paper format no later than 5pm on April 1st, 2008.

Please Note: No supplemental materials will be accepted after the application deadline unless requested by staff for administrative purposes or when needed for the reviewers.

For further information:

http://www.cancer.org/docroot/RES/content/RES_5_2x_RFA_Pilot_and_Exploratory_Projects_in_Palliative_Care_of_Cancer_Patients_and_Their_Families.asp?sitearea=RES

Breast Cancer Research Program for Predoctoral Traineeship

Department of Defense

Deadline: Pre-application: January 9, 2008;

Full Proposal: February 6, 2008

The Breast Cancer Research Program (BCRP) Predoctoral Traineeship Award prepares promising graduate students for successful and competitive careers by providing high-quality training in a breast cancer research-focused environment.

Successful applicants will be selected for their talent, potential, and commitment to breast cancer research; the mentor's qualifications and experience in breast cancer research; the strong breast cancer research training program at the trainee's institution; and the institution's commitment to training future leaders in breast cancer research. Funding for this award can be requested for up to \$90,000 for direct costs for up to a 3-year performance period, plus indirect costs as appropriate. Up to \$30,000 per year in direct costs may be requested.

For further information: <http://cdmrp.army.mil/funding/bcrp.htm>

Microbial Genome Sequencing Program - NSF 08-511

National Science Foundation (NSF)

Deadline: February 19, 2008

As a collaborative, interagency effort, the National Science Foundation (NSF) and the Cooperative State Research, Education, and Extension Service (CSREES) of the U.S. Department of Agriculture (USDA) invite research proposals to support high-throughput

sequencing of the genomes of microorganisms (including viruses, bacteria, archaea, fungi, oomycetes, protists, and agriculturally important nematodes). The availability of genome sequences provides the foundation for understanding how microorganisms function and live, and how they interact with their environments and with other organisms. The sequences are expected to be available to and used by a community of investigators to address issues of scientific and societal importance, including novel aspects of microbial biochemistry, physiology, metabolism, development, and cellular biology; the diversity and the roles microorganisms play in complex ecosystems and in global geochemical cycles; the impact that microorganisms have on the productivity and sustainability of agriculture and natural resources (e.g., forestry, soil, and water), and on the safety and quality of the nation's food supply; and the organization and evolution of microbial genomes, and the mechanisms of transmission, exchange, and reshuffling of genetic information.

For further information: <http://www.nsf.gov/pubs/2008/nsf08511/nsf08511.htm>

Nutrition and Diet in the Causation, Prevention, and Management of Heart Failure (R21)

Department of Health and Human Services (HHS)

Deadline: February 16, 2008

The purpose of this funding opportunity announcement (FOA) is to encourage submission of investigator-initiated research applications on the role of nutrition and diet in the causation, prevention, and treatment of cardiomyopathies and heart failure. Basic, translational, and applied interdisciplinary research applications with rigorous hypothesis-testing study designs using animals or humans are of interest. The overall goal is to develop a satisfactory science base for preventive approaches in high-risk individuals and for rational nutritional management of patients in various stages of heart failure.

Participating organizations include the National Heart, Lung, and Blood Institute (NHLBI), National Institute on Aging (NIA), National Institute of Nursing Research (NINR), Office of Dietary Supplements (ODS).

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-136.html>

NIAMS Small Grant Program For New Investigators (R03)

Department of Health and Human Services (HHS)

Deadline: February 23, 2008

The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) Small Grant program (R03) is designed to facilitate the entry of promising new investigators into research on arthritis and musculoskeletal and skin diseases and injuries by providing support for pilot research that is likely to lead to a subsequent individual research project grant (R01). Brief summaries of the focuses of the NIAMS' Extramural Program branches are listed below:

Rheumatic Diseases

The mission of the Rheumatic Diseases Branch is to promote and support research leading to prevention, diagnosis and cure of rheumatic and related diseases. The Branch supports basic, epidemiologic, and clinical research on etiology, pathogenesis, course, interventions, and outcomes in rheumatic and related diseases.

Muscle Biology

The Muscle Biology Branch encourages and supports research on skeletal muscle, its diseases and disorders, and its central role in human physiology and exercise. Topics include the molecular structure of muscle and the molecular mechanisms that produce force and motion. One focus of this program is understanding the alterations in muscle resulting from increased exercise regimens and, conversely, the atrophy that follows immobilization during injury or illness.

Musculoskeletal Diseases

This Branch supports studies of the skeleton including bones, joints and associated connective tissues. Broad areas of interest include skeletal development, metabolism, mechanical properties, and responses to injury. Clinical and basic research in the areas of osteoporosis and orthopaedic sciences are of particular interest under this program. Other musculoskeletal disorders of interest include osteoarthritis, osteogenesis imperfecta, and Paget's disease. The Program supports research in the area of acute and chronic injuries of the musculoskeletal system including work related and repetitive stress injuries. Research proposals related to the development of new technologies with the potential to improve treatment and/or diagnosis of skeletal disorders and to facilitate the repair of trauma in the normal skeleton are of great interest. In addition, bioengineering, sports medicine and musculoskeletal fitness are areas of special research emphasis.

Skin Diseases

This Branch supports basic and clinical studies of the skin in normal and disease states. The wide range of skin diseases under study with NIAMS support includes keratinizing disorders such as psoriasis and ichthyosis, atopic dermatitis and other chronic inflammatory skin disorders, the vesiculobullous diseases such as epidermolysis bullosa and pemphigus, acne, and vitiligo.

For further information: <http://grants.nih.gov/grants/guide/pa-files/PAR-06-383.html>

Advancing Theory in Biology (ATB) - NSF 08-513

National Science Foundation (NSF)

Deadline: February 25, 2008

The Biological Sciences Directorate invites submission of proposals that advance our conceptual and theoretical understanding of the dynamics of living systems. The emergence of complex biological phenomena from dynamic interactions among less complex elements is a central theme in modern biology, and it permeates inquiries at all levels of biological organization from macromolecules to ecosystems. Such interactions are typically non-linear, distributed, and often span many levels of biological organization. These properties limit the understanding that can be gained by traditional experimental analyses. The program is designed to develop new

conceptualizations and theoretical approaches to identify fundamental principles that traverse levels of biological complexity. The anticipated type of award is Standard Grant or Continuing Grant.

For further information: <http://www.nsf.gov/pubs/2008/nsf08513/nsf08513.htm>

Institutional Award Program Unifying Population and Laboratory Based Sciences
Burroughs Wellcome Fund
Deadline: Letter of Intent: March 3, 2008

The Burroughs Wellcome Fund's (BWF) new institutional training program-Institutional Program Unifying Population and Laboratory Based Sciences- hopes to develop a new cadre of scientists working at the connections between population approaches to human health and basic biomedical research.

The awards will provide \$500,000 a year for five years in order to stimulate institutional training programs that partner researchers working in schools of medicine and schools (or academic divisions) of public health.

Understanding human health will be a focal priority for the programs that are funded. There is ample room for building on institutional strengths to achieve this focus, for example: institutional interests in chronic diseases, autoimmune diseases, infectious diseases, genetic diseases, toxicology, reproductive health, and other areas where questions relating to human health are ripe for exploration at both the population and molecular scales. Likewise, institutional strengths in applied mathematics and modeling, statistics, genomics, bioinformatics and other informatics and data-driven sciences including geography and demographics, and phenomic approaches could provide excellent foundations for programs that encourage such work.

Candidates are encouraged to read instructions carefully. If questions arise contact Jean Kramarik, senior program associate, at 919/991-5122.

The Burroughs Wellcome Fund is an independent private foundation dedicated to advancing the biomedical sciences by supporting research and other scientific and educational activities.

For further information:

http://www.bwfund.org/programs/population_lab_sciences/pup_lab_brochure.pdf and
http://www.bwfund.org/programs/population_lab_sciences/pup_lab_background.html

PHYSICAL SCIENCES & MATHEMATICS

See also opportunities listed under MULTIPLE DISCIPLINES

Cooperative Grants Program

U.S. Civilian Research & Development Foundation

Deadline: February 1, 2008

The average anticipated grant size is approximately \$65,000 over a two-year period. At least 80 percent of the funds awarded to each project will be used for project-related expenses of the Eurasian component of the research team, including institutional support. No more than 20 percent may be used for U.S. team expenses.

This program provides one- to two-year support to joint research teams of U.S. and Eurasian scientists and engineers in all areas of basic and applied research and development. Proposals may be submitted for cooperation in any area of civilian research and development in the natural sciences, mathematics, engineering, and biomedical and behavioral sciences. Proposals may include both basic and applied science and engineering activities.

For further information: http://www.crdf.org/funding/funding_show.htm?doc_id=427712

Earth Sciences: Instrumentation and Facilities (EAR/IF) - NSF 07-553

National Science Foundation (NSF)

Deadline: February 13, 2008

The Instrumentation and Facilities (IF) program in the Division of Earth Sciences (EAR) supports meritorious requests within and across earth science disciplines. EAR/IF will consider proposals for the following:

1. Acquisition or upgrade of research equipment that will advance laboratory and field investigations, and student training opportunities in the earth sciences
2. Development of new instrumentation, analytical techniques, or software that will extend current research and research training capabilities in the earth sciences
3. Support of national or regional multi-user facilities that will make complex and expensive instruments or systems of instruments broadly available to the earth sciences research and student communities
4. Support of research technicians who will provide for optimal and efficient operation of advanced instrumentation, analytical protocol development, and user training for earth science research instrumentation
5. Development of cyberinfrastructure for the earth sciences (geoinformatics) that will enable transformative advances in earth science research and education through novel application, development, or adaptation of information technologies

Planned research uses of requested instruments must include basic research on solid-earth and surface-earth processes.

Support is available through grants or cooperative agreements awarded in response to investigator-initiated proposals. Human resource development and education are expected to be an integral part of all proposals submitted to EAR/IF. Proposals requesting equipment, infrastructure, or personnel that will serve disciplines outside the earth sciences may be jointly reviewed with other programs within the foundation. EAR/IF will consider co-funding of projects with other National Science Foundation (NSF) programs.

For further information: <http://www.nsf.gov/pubs/2007/nsf07553/nsf07553.htm>

Interdisciplinary Grants in the Mathematical Sciences (IGMS) - NSF 04-518

National Science Foundation (NSF)

Deadline: February 19, 2008

The objective of the Interdisciplinary Grants in the Mathematical Sciences (IGMS) program is to enable mathematical scientists to undertake research and study in another discipline so as to expand their skills and knowledge in areas other than the mathematical sciences; subsequently apply this knowledge in their research; and enrich the educational experiences and broaden the career options of their students.

Recipients of an IGMS award are expected to spend full time in a non-mathematical science department in an academic institution or an industrial, commercial, or financial organization. The expected outcome is sufficient familiarity with another discipline so as to open opportunities for effective collaboration by the mathematical scientist with researchers in another discipline.

For further information: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf04518>

Digital Data Embedding Technologies (DDET)

United States Department of Defense (DOD)

Deadline: February 28, 2008

The Information Directorate of the Air Force Research Laboratory (AFRL) at the Rome Research site is seeking firms to conduct applied research and advanced technology development in Digital Data Embedding Technologies (DDET), such as information hiding, steganography, watermarking, steganalysis, embedded data extraction, digital data forensics, etcetera. Information hiding and data embedding refer to secure addition of information content to digital data products using mathematical techniques that work at the constructive level of the product. Steganography refers to the use of data embedding for covert communication. Watermarking refers to embedding additional information about the cover data. Steganalysis detects the presence of steganographic communications. Embedded data extraction refers to the extrication of hidden information. Digital data forensics refers to analysis that gathers evidence of data composition, origin, pedigree, etcetera.

The primary digital data types of interest include imagery, video, and audio. This program will develop, employ, and exploit digital data embedding technologies to provide early

demonstrations for potential applications to operational Department of Defense (DOD) systems. It will also enhance existing and maturing technologies and provide a vehicle for continued development over its duration. The objective of this procurement is to assist the government in the technical development of DDET technologies, for evaluation and selection of transitionable technologies, and in prototype demonstrations of these technologies into appropriate systems. These systems could include

- the Distributed Common Ground System (DCGS) ,
- the Combined Air Operations Center - Experimental (CAOC-X),
- systems at the National Imagery and Mapping Agency (NIMA) and National Air Intelligence Center (NAIC), or
- others as applicable.

For further information: <http://fedbizopps.cos.com/cgi-bin/getRec?id=20060816a13>

Young Investigator Award

American Chemical Society (ACS), Division of Biochemical Technology (BIOT)

Deadline: February 28, 2008

The Division of Biochemical Technology Young Investigator Award is open to all researchers whom are 40 years or younger at the beginning of the calendar year, both academic and industrial.

The nominations will be judged on the originality and overall quality of work, significance to the advancement of the field of biochemical technology, and other supporting information in the nomination package. Measures of the impact of the work include publications, presentations, patents, leadership, and professional awards. The candidate's contributions should include independent work clearly distinguishable from his or her doctoral and postdoctoral work.

Presented by the American Chemical Society (ACS) Division of Biochemical Technology (BIOT), the BIOT Young Investigator Award is intended to recognize an outstanding young contributor to the field of biochemical technology and active participant in the division programs

For further information: <http://membership.acs.org/b/biochem/awards.html>

Thermal Transport Processes

National Science Foundation (NSF)

Deadline: March 1, 2008

Thermal Transport and Thermal Processing projects should be aimed at gaining a basic understanding at the microscopic and macroscopic levels of thermal phenomena underlying the production of energy, the synthesis and processing of materials, the cooling and heating in equipment and devices, the interaction of industrial processes with the environment, and the thermal phenomena in biological systems. Higher priority will be given to those projects that

deal with problems on the cutting edge of technology while developing human resources in engineering.

For further information:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13367&org=CBET

SOCIAL SCIENCES

See also opportunities listed under HUMANITIES; INTERNATIONAL AREA STUDIES: and MULTIPLE DISCIPLINES

Graduate Research Grants

Psi Chi (National Honor Society in Psychology)

Deadline: February 1, 2008

The grant program supports Psi Chi's two-pronged mission to encourage, stimulate, and maintain excellence in scholarship, and to advance the science of psychology. The program provides funds for Psi Chi members enrolled in a master's or doctoral program in psychology or a psychology-related field to defray the cost of conducting an original research project.

For further information: http://psichi.org/awards/completelist_awards.asp

Innovation and Organizational Change (IOC)

National Science Foundation (NSF)

Deadline: February 2, 2008

The Innovation and Organizational Change (IOC) program supports scientific research directed at advancing understanding of innovation and organizational phenomena. Levels of analysis may include (but are not limited to) individuals, groups and/or institutional arrangements. Research may involve industrial, educational, service, government, not-for-profits, voluntary organizations or interorganizational arrangements. IOC-funded research must be grounded in theory, relevant to an operational or applied context, and generalizable. It must advance our scientific understanding of innovation and organizations. Proposals that aim to implement or evaluate innovations or particular organizational changes rather than to advance fundamental, generalizable knowledge about innovation and organizations are not appropriate for IOC.

For further information: <http://www.nsf.gov/pubs/2006/nsf06610/nsf06610.htm>

Assessing the Effects of Interpersonal Violence Prevention on Suicide (U49)

Department of Health and Human Services (HHS)

Deadline: February 5, 2008

The purpose of this program is to announce the availability of fiscal year (FY) 2008 funds for a cooperative agreement to determine whether interventions intended to prevent interpersonal violence (e.g., youth violence, intimate partner violence, sexual assault) impact self-directed

violence (i.e., suicidal behavior). Conducting this research will increase the knowledge base with which to develop effective interventions that can simultaneously impact multiple forms of violence, thereby potentially minimizing costs, eliminating redundant or competing infrastructures, and creating more comprehensive and effective programs.

Self-directed violence is a serious public health problem in the United States and around the world. It can be defined as an intentional act directed against oneself that either results in or has a high likelihood of resulting in injury, death or harm. This can include fatal and nonfatal suicidal behaviors ("suicide attempts") as well as behaviors where the intention is not to kill oneself, as in the case of self-mutilation. In the United States, suicide has ranked among the twelve leading causes of death since 1975. In 2004, there were 32,439 suicide deaths, making it the 11th leading cause of death.

Surveillance and epidemiologic data suggest significant overlap in self-directed and interpersonal violence. Victims of interpersonal violence (including child maltreatment, youth violence, sexual assault, and intimate partner violence) have a higher risk of suicide than non-victims. In addition, previous and current perpetrators of interpersonal violence are at increased risk for suicidal behavior. Evidence also continues to accumulate that self-directed violence and interpersonal violence share many of the same complex risk and protective factors. These factors span all levels of the social ecology: individual (e.g., coping skills), family (e.g., disrupted or violent personal relationships), community (e.g., social cohesion), and societal (e.g., economic climate). Thus, interventions targeting risk and protective factors for interpersonal violence may also show effects on self-directed violence, especially if the intervention addresses factors common to both types of violence.

Research funded under this announcement is expected to assess self-directed violence outcomes among subjects participating in intervention trials designed to prevent interpersonal violence (e.g., youth violence, intimate partner violence, sexual assault). Investigators are invited to propose plans for the assessment of suicidal behavior outcomes (with or without other related outcomes such as suicidal ideation and plans) following participants' exposure to an interpersonal violence prevention strategy. The interpersonal violence prevention strategy (e.g., intervention, policy change) should have either a completed or ongoing efficacy or effectiveness trial. The evaluation design (including timing of suicide assessment) and analytic plans should allow for detection of change in suicidal behavior, given the nature of the intervention and the population. The assessment of suicidal behavior outcomes should include intervention participants and an appropriate control or comparison group. Potential sources of suicidal outcome data could include, but are not limited to: death certificates, hospitals, emergency departments, or self reports.

For further information: <http://grants1.nih.gov/grants/guide/rfa-files/RFA-CE-08-007.html>

Sociology Program

National Science Foundation (NSF)

Deadline: February 15, 2008

The Sociology Program supports basic research on all forms of human social organization - societies, institutions, groups, and demography - and processes of individual and institutional change. The program encourages theoretically focused empirical investigations aimed at improving the explanation of fundamental social processes. Included is research on organizations and organizational behavior, population dynamics, social movements, social groups, labor force participation, stratification and mobility, family, social networks, socialization, gender roles, and the sociology of science and technology. The program supports both original data collections and secondary data analysis that use the full range of quantitative and qualitative methodological tools. Theoretically grounded projects that offer methodological innovations and improvements for data collection and analysis are also welcomed. The Sociology Program also funds doctoral dissertation research to defray direct costs associated with conducting research, for example, dataset acquisition, additional statistical or methodological training, meeting with scholars associated with original datasets, and fieldwork away from the student's home campus.

For further information:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5369&org=SES&from=home

MULTIPLE DISCIPLINES

NASA Experimental Program to Stimulate Competitive Research (EPSCoR)

Kansas NASA EPSCoR Program

Deadline: January 21, 2008, 12pm

The Kansas NASA EPSCoR Program (KNEP) is requesting proposals for a Cooperative Agreement Notice (CAN), announced by NASA on December 17, 2007. The CAN resembles past NASA EPSCoR opportunities, with \$250,000 in funding per year for three years. Proposals require (among many things):

- Dollar-for-dollar matching funds
- Alignment with NASA and Kansas goals and missions
- Plans for significant collaborations and interactions
- The development of sustainable research efforts

The official NASA announcement is available through the NASA Solicitation and Proposal Integrated Review and Evaluation System (NSPIRES) at <http://nspires.nasaprs.com> (select "Solicitations," "Open Solicitations" and then look for "Experimental Program to Stimulate Competitive Research - NNH08ZNE001C").

Interested investigators submit proposals, in a PDF-format, via the KNEP Director (not NASA) by noon on January 21, 2008.

KNEP will forward, after reviews, two (2) proposals to NASA for award consideration. Selections are based on criteria clearly identified in the official NASA announcement. Please read the NASA document carefully, it outlines critical information and expectations. KNEP, not investigators, will submit a Notice of Intent (NOI) to NASA.

Investigators are encouraged to contact relevant NASA researchers as soon as possible to plan proposals. Well-defined NASA collaborations and interactions are important. Furthermore, you need to identify a “NASA Research Contact” within the proposal.

KNEP is working to secure additional funding to help meet matching requirements, expect further information shortly. Investigators should aggressively pursue other matching funds as well. Please note the NASA required role for the state EPSCoR Director and include \$5,000 per year in your budget to cover KNEP administration expenses.

For more information on NASA and KNEP strategic objectives: www.NASA.gov and www.NASAINKansas.org

For questions regarding this opportunity, please contact: KNEP director, Scott Miller (scott.miller@wichita.edu) or 316-978-6334, or Linda Cory (linda.cory@wichita.edu)

Interdisciplinary Training for Undergraduates in Biological and Mathematical Sciences (UBM) - NSF 08-510

National Science Foundation (NSF)

Deadline: February 21, 2008

The goal of the Undergraduate Biology and Mathematics (UBM) activity is to enhance undergraduate education and training at the intersection of the biological and mathematical sciences and to better prepare undergraduate biology or mathematics students to pursue graduate study and careers in fields that integrate the mathematical and biological sciences. The core of the activity is long-term research experiences for interdisciplinarily balanced cohorts of at least four undergraduates. Projects should focus on research at the intersection of the mathematical and biological sciences. Projects should provide students exposure to contemporary mathematics and biology, addressed with modern research tools and methods. That is, projects must be genuine research experiences rather than rehearsals of research methods. Projects must involve students from both areas in collaborative research experiences and include joint mentorship by faculty in both fields. In addition, it is expected that projects will strengthen the research and education capacity, infrastructure, and culture of the participating institutions. To this end, projects should create models for education in the mathematical and biological sciences and influence the direction of academic programs for a broad range of students. UBM is a joint effort of the Education and Human Resources (EHR), Biological Sciences (BIO), and Mathematical and Physical Sciences (MPS) directorates at the National Science Foundation (NSF).

For further information: <http://www.nsf.gov/pubs/2008/nsf08510/nsf08510.htm>

Collaborative Research in Computational Neuroscience (CRCNS): Innovative Approaches to Science and Engineering Research on Brain Function- NSF 08-514

National Science Foundation; National Institutes of Health

Deadline: February 26, 2008; October 30, 2008

Computational neuroscience provides a theoretical foundation and a rich set of technical approaches for understanding the functions of complex neurobiological systems, building on the theory, methods, and findings of computer science, neuroscience, and numerous other disciplines. Through the CRCNS program, participating NSF Directorates and NIH Institutes support innovative interdisciplinary collaborative research to make significant advances in the understanding of nervous system function, mechanisms underlying nervous system disorders, and computational strategies used by the nervous system.

Two classes of proposals will be considered in response to this solicitation: **research proposals** describing new collaborative research projects, and **data sharing proposals** to enable sharing of data and other resources.

In general, appropriate scientific areas of investigations may be related to any of the participating funding organizations. Some specific examples are given below. Questions concerning a particular project's focus, direction and relevance to a participating funding organization should be addressed to the appropriate person in the list of agency contacts.

Each of the funding organizations participating in this program has a commitment to developing and supporting computational neuroscience research for the purpose of advancing the understanding of the questions relevant to the missions of the organizations. Proposals selected for funding must be responsive to the mission of a participating funding organization.

For further information: <http://www.nsf.gov/pubs/2008/nsf08514/nsf08514.htm>

Catalysis and Biocatalysis

National Science Foundation (NSF)

Deadline: March 1, 2008

This sub-element promotes multidisciplinary research in:

1. Chemical Kinetics of Heterogeneous, Homogeneous, and Biocatalysis
2. Synthesis and Processing of Chemically Functional Materials
3. Interfacial, Electrochemical, and Photochemical Reaction Processes
4. Theory and Modeling of Reaction Processes at Surfaces
5. Synthesis and Characterization of Catalysts that Function at the Nanoscale

Typical research topics include:

- Synthesis and characterization of novel catalytic structures from the atomic through the nanoscale for chemical conversions;
- Mechanisms and kinetics of reactions at solid surfaces and at interfaces (gas-solid, liquid-solid including aqueous-solid);
- Ab initio and semiempirical kinetic theory and dynamic simulation of complex reactions;
- Utilization of catalytic materials in sensors, electronic devices, coatings; incorporation of components from the nano- to micron scale;
- Catalytic reaction engineering of chemical, photo-, electro-, and bio-catalytic processes;
- Accelerated development of chemical processes and materials: combinatorial synthesis and data mining coupled to experimentation and modeling;
- Environmentally beneficial chemical process alternatives; catalytic conversion of biorenewables;
- Energy and natural resource efficiency in chemical processing;
- Utilization of new catalysts for producing nanomaterials; and
- Ultra-selective reactions and catalysts for fine chemicals, pharmaceuticals, and specialty chemical products.

For further information:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13360&org=CBET

Understanding Impacts of Military Activities on Archaeological Resources

United States Department of Defense (DOD)

Deadline: March 6, 2008

The Strategic Environmental Research and Development Program (SERDP) is the Department of Defense's (DoD) corporate environmental R&D program, planned and executed in full partnership with the Department of Energy (DOE) and the Environmental Protection Agency (EPA), with participation by numerous other federal and non-federal organizations. Within its broad areas of interest, the program focuses on Environmental Restoration, Munitions Management, Sustainable Infrastructure, and Weapons and Systems Platforms.

The objective of this Statement of Need (SON) is to understand and quantify the potential impacts on subsurface archaeological resources of various types of land-based military activities, with a focus on vehicle impacts. Archaeological sites consist of three dimensional distributions of artifacts and features (constructed facilities such as storage pits, hearths, and architectural remains) that occur in a matrix of culturally modified sediments. An archaeological site's scientific value is closely tied to its depositional integrity. Impacts that alter the spatial relationships among objects or damage features, such as vehicle traffic, excavations, and erosion, reduce a site's depositional integrity.

Proposals are requested that address the following research needs include: (1) identification of suitable methods to measure impacts of military training, testing, and related activities on archaeological resources; (2) documentation and development of metrics to understand impacts,

specifically vehicle traffic impacts (e.g. rutting, compaction, etc.) and associated secondary results (e.g. erosion); (3) development of methods to predict the occurrence and intensity of impacts based on soil type, slope, vegetation, rainfall, and type of military activity; and (4) identification of acceptable thresholds for training to minimize the risk of adverse impacts to sites.

For further information: <http://www.serdp.org/Funding/Core-Sons.cfm>

Characterization of Emissions from Open Burn/Open Detonation

United States Department of Defense (DOD)

Deadline: March 6, 2008

The Strategic Environmental Research and Development Program (SERDP) is the Department of Defense's (DoD) corporate environmental R&D program, planned and executed in full partnership with the Department of Energy (DOE) and the Environmental Protection Agency (EPA), with participation by numerous other federal and non-federal organizations. Within its broad areas of interest, the program focuses on Environmental Restoration, Munitions Management, Sustainable Infrastructure, and Weapons and Systems Platforms.

The objective of this Statement of Need (SON) is to seek applied research leading to improved quantification of all atmospheric emissions from the demilitarization of ordnance via open burn/open detonation (OB/OD). Previous OB/OD emissions studies have made use of testing procedures designed for continuous emission sources, leading to questionable estimates of these emissions.

Proposals responding to this SON should address one or more of the following issues:

- Development of real-time measurement methodologies that will accurately characterize the emissions from OB/OD operations. Development of new instrumentation or sensors is not intended under this SON; however, work involving modification, enhancement or novel implementation of existing analytical instrumentation or sensors may be proposed.
- Development of modeling and/or prediction capabilities to accurately predict emissions from OB/OD operations for a wide and representative variety of ordnance and munition items, thereby eliminating the need to perform detailed emissions measurements for all items that could be demilitarized.
- Development of correction factors for existing OB/OD emissions data. Measurement methodologies/techniques that are developed under this SON must demonstrate robustness and repeatability.

For further information: <http://www.serdp.org/Funding/Core-Sons.cfm>

The Role of Healthcare and Insurance in Improving Outcomes in Cancer Prevention, Early Detection and Treatment

The American Cancer Society

Deadline (electronic and paper): April 1, 2008

The American Cancer Society is announcing this RFA to investigate the impact of healthcare costs, healthcare system and capacity, insurance status, social factors and delivery of health care services, on outcomes in cancer prevention, early detection and treatment. The purpose of this RFA is to stimulate research on the effects of the US healthcare system structure and the role of insurance on access to screenings and treatment. Of particular interest is research using linked databases such as SEER, Medicare payment data, State data and NCHS data; other existing databases. Studies may be at the state, multi-state, or national levels, or otherwise involve large populations. Respondents should specifically describe how their results would generalize to the broader corresponding U.S. populations.

Significant gaps in knowledge remain on how healthcare costs, healthcare system structure and capacity, socioeconomic factors (including insurance status), personal characteristics (such as race and ethnicity), and delivery of healthcare services affect outcomes related to cancer prevention, early detection, and treatment. Studies investigating how one or more of these factors affect access, and how these mechanisms interact with other factors known to affect access to healthcare services should be considered. The goal is to use new knowledge derived from these studies to inform policy development and enhance outcomes in cancer prevention, early detection and treatment.

For this RFA in health policy and health services research, ACS is particularly interested in developing new knowledge specifically about the role played by insurance status within the context of other factors, such as costs, capacity and personal characteristics, that affect outcomes in cancer prevention, early detection and treatment. In particular, studies should explore these issues within the uninsured and underinsured populations, Medicaid, and types of private insurance (HMO, PPO, etc.).

Three areas of investigation will receive special consideration:

1. How does the structure and capacity of the healthcare system affect appropriate and timely access to cancer screening, early detection, treatment and palliative care? Examples of such studies include (but are not limited to):
 - a. How do insurance plan benefit designs or costs affect access to cancer screening and treatment? How do plans with high deductibles/co-payments/coinsurance, low annual or lifetime maximums, or significant benefit limits such as number of hospital days or physicians visits, influence use of cancer screening and treatment services as well as treatment patterns and quality of care? How do these design effects vary across geographic regions and/or at-risk populations?
 - b. Do high risk pools and new insurance instruments (including insurance pools for those diagnosed with cancer such as the programs in Maine and Delaware) increase access to screening and treatment? How do these various products compare with private insurance in affecting access to screening and detection services?
 - c. Is there sufficient capacity (facilities and personnel) within the healthcare system for cancer

prevention, screening, treatment and palliative care needs? Would there be sufficient capacity if access to care is increased? What are the root causes of incapacities?

2. What provider and system factors affect treatment patterns and quality of cancer care within the current healthcare systems? Examples of such studies include (but are not limited to):
 - a. What provider and system incentives affect treatment patterns and quality of care, for underserved populations?
 - b. How does level of reimbursement for cancer prevention, screening, and treatment services affect access to care and outcomes?
 - c. How does standardization of cancer treatment patterns affect outcomes? What are the benefits of standardization of care?
 - d. What is the impact of coordination of care and/or having a "medical home" on treatment patterns and outcomes for cancer patients?
 - e. How do discontinuities or changes in health insurance (i.e., losing and gaining coverage over relatively short periods of time) affect access to care, treatment patterns, and outcomes, and quality of care for individuals with cancer?

3. Explore life course patterns of the entire spectrum of cancer care (from prevention and screening through diagnosis, treatment, survivorship, and supportive/palliative care) by linking diverse data sources for broad patient populations. Examples of such studies include (but are not limited to):
 - a. What factors (such as changes in insurance status, community resources, policy interventions, etc.) are associated with differences in lifecourse patterns throughout the spectrum of cancer care?
 - b. What prevention, screening, and/or treatment patterns can be demonstrated for broad populations of individuals with cancer by linking diverse sources of existing data?

This RFA will use the American Cancer Society Research Scholar Grant in Cancer Control and Prevention: Health Services and Health Policy Research award mechanism.

For further information:

http://www.cancer.org/docroot/RES/content/RES_5_2x_Research_Scholar_Grants_For_Health_Services_and_Health_Policy_and_Outcomes_Research.asp?sitearea=RES