

Funding Opportunities Bulletin

August 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.

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BUSINESS

See also opportunities listed under MULTIPLE DISCIPLINES

Mini-Grants

Social Equity Venture Fund (S.E.VEN)

Deadline: September 15, 2008

Mini-grant requests should align with the S.E.VEN Fund's funding priorities. S.E.VEN funding is intended to catalyze, support and disseminate research on questions of economic development, prosperity and entrepreneurship. Funding is particularly targeted toward new frontiers in enterprise-based solutions to poverty and innovative ideas that are unlikely to be supported by conventional funding sources. International development and philanthropy are broad areas; S.E.VEN only funds projects that specifically relate to enterprise-based solutions to poverty. Further, the fund typically supports research, the development of writing and other media, conferences, and similar projects.

For further information: <http://www.sevenfund.org/>

Tribal Business Management (TBM) Scholarships

Catching the Dream

Deadline: September 15, 2008

Catching the Dream provides scholarship assistance for students who demonstrate academic achievement, clearly defined goals, leadership, the determination to succeed, and the desire to return to their communities and help others realize their dreams.

The Tribal Business Management program is for students in

- business,
- finance,
- management,
- economics,
- banking,
- hotel management, and
- related fields who plan to work in economic development for tribes.

Students should have clear goals about what they want to accomplish in life, and should have begun preparing for this work. Their goals must be related to the betterment of an Indian tribe or community. Progress toward accomplishing a goal may be demonstrated by study, work, volunteerism, extracurricular activities, leadership roles, and letters of recommendation

For further information: <http://www.catchingthedream.org/Scholarship.htm>

Individual Grants Competition

Society of Actuaries (SOA); Actuarial Foundation

Deadline: October 20, 2008

The Actuarial Foundation's (TAF) AERF Committee, the Casualty Actuarial Society (CAS) and the Society of Actuaries' Committee on Knowledge Extension Research (CKER) announce the 2009 competition to support the advancement of knowledge in actuarial science. Grants will be funded through TAF, the SOA, and the CAS. The project may be either theoretical or empirical in nature. A key criterion for each organization is that the project should have the potential to contribute significantly to the advancement of knowledge in actuarial science.

TAF's AERF Committee gives preference to projects relating to current policy issues or having direct applications, and those that further the basic or continuing education of actuaries. Proposals for innovative developments in actuarial education also are invited for consideration.

The result of each research project should be a manuscript suitable for publication in a scholarly journal or as a monograph.

For further information: <http://www.soa.org/research/grants-awards-and-prizes/research-ind-grant-announcement.aspx>

EDUCATION

See also opportunities listed under MULTIPLE DISCIPLINES

Education Policy, Finance, and Systems - 84.305A

United States Department of Education (ED); Institute of Education Sciences (IES); National Center for Education Research

Deadline: October 2, 2008

The Institute of Education Sciences (IES) intends for the Education Policy, Finance, and Systems (Policy/Finance) research program to address the following five goals:

1. Identifying policies, systemic programs or practices, and education finance programs or practices that are associated with better student outcomes (e.g., student learning, high school graduation rates)
2. Developing new policies, education finance and systemic practices that are intended to improve student outcomes either directly or indirectly by improving the teaching and learning environment
3. Evaluating the efficacy of education policies, education finance programs and practices, and systemic programs and practices that are intended to improve student outcomes either directly or indirectly by improving the teaching and learning environment
4. Evaluating the impact of policies, finance programs and practices, and other systemic practices that are implemented at scale and are intended to improve student outcomes either directly or indirectly by improving the teaching and learning environment
5. Developing and testing cost accounting tools and measurement systems that will enable education administrators to link student-level resources to student-level achievement data

Under the Policy/Finance program, applications must address

- policy, finance, or systems-level interventions intended to improve student outcomes (e.g., reading, mathematics, attendance, graduation rates) directly or indirectly for education systems that include kindergarten through high school; or
- cost accounting, budgeting, or other measurement tools that will enable education administrators to link student-level resources to student-level learning outcomes for education systems that include kindergarten through high school.

For further information: <http://ies.ed.gov/ncer/funding/edpolicy/index.asp>

Special Education Research: Transition Outcomes for Special Education Secondary Students - 84.324A

United States Department of Education (ED); Institute of Education Sciences (IES); National Center for Special Education Research

Deadline: October 2, 2008

The purpose of the research program on Transition Outcomes for Special Education Secondary Students (Transition) is to contribute to the improvement of transition outcomes for secondary students with disabilities. Transition outcomes include the behavioral, social, communicative,

functional, occupational, and academic skills that enable young adults with disabilities to obtain and hold meaningful employment, live independently, and obtain further education and training.

For further information: <http://ies.ed.gov/ncser/funding/transition/index.asp>

Education Leadership - 84.305A

United States Department of Education (ED); Institute of Education Sciences (IES); National Center for Education Research

Deadline: October 2, 2008

The Education Leadership research program addresses the following five goals:

1. Identifying the behaviors, practices, and characteristics of education leaders (e.g., principals, district superintendents) that are associated with better student outcomes from kindergarten through grade 12; and identifying programs and practices for the professional development of education leaders that are associated with better student outcomes (e.g., student achievement, high school graduation) from kindergarten through grade 12; as well as mediators and moderators of the relations between student outcomes and these leadership characteristics, programs, or practices
2. Developing new programs and practices for the professional development, recruitment, or retention of education leaders that will result in improving the teaching and learning environment at the local level and, ultimately, student learning and achievement
3. Evaluating the efficacy of programs and practices for the professional development, recruitment, or retention of education leaders for improving the teaching and learning environment and, ultimately, student learning and achievement
4. Evaluating the impact of programs and practices for the professional development, recruitment, or retention of education leaders that are implemented at scale and intended for improving the teaching and learning environment and through it, student learning and achievement
5. Developing and validating new assessments of the quality of education leaders, or validating existing assessments of education leaders against measures of student achievement from kindergarten through high school

Long-term outcomes of the Education Leadership program will be an array of tools and strategies (e.g., in-service programs, policies, assessments) that have been demonstrated to be effective for improving and assessing the performance of education leaders (e.g., principals, superintendents) in ways that are linked to increases in student achievement. In this solicitation, the term professional development refers to the in-service training of current leaders.

For further information: <http://ies.ed.gov/ncser/funding/edleadership/index.asp>

Education Research & Development Centers - 84.305C

United States Department of Education (ED); Institute of Education Sciences (IES); National
Deadline: October 2, 2008

The Institute of Education Sciences (IES) announces the FY 2009 competition for grants to support education research and special education research. Under the education research and development centers competition, NCER will consider only applications that address one of the following education research topics:

1. Teacher effectiveness
2. Rural education
3. Turning around chronically low achieving schools

The central purpose of the research grant programs is to provide parents, educators, students, researchers, policymakers, and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students. In carrying out its grant programs, IES provides support for programs of research in areas of demonstrated national need.

For further information:

<http://www07.grants.gov/search/search.do;jsessionid=HVvWvytgywC8SKBtQhH7J3tnG11vqXHgrnv9fDTTQ3s99qPPKdLN!2066172073?oppId=17051&flag2006=true&mode=VIEW>

ENGINEERING & COMPUTER SCIENCE

See also opportunities listed under MULTIPLE DISCIPLINES

Environmental Sustainability

National Science Foundation (NSF); Directorate for Engineering (ENG); Chemical, Bioengineering, Environmental, and Transport Systems (CBET); Environmental Engineering and Sustainability

Deadline: September 15, 2008

The Environmental Sustainability program supports engineering research with the goal of promoting sustainable engineered systems that support human well-being and that are also compatible with sustaining natural (environmental) systems, which provide ecological services vital for human survival. The long-term viability of natural capital is critical for many areas of human endeavor. Research in Environmental Sustainability considers long time horizons and incorporates contributions from the social sciences and ethics. This program supports engineering research that seeks to balance society's need to provide ecological protection and maintain stable economic conditions. The Environmental Sustainability program supports four general research areas:

1. Industrial Ecology: Topics of interest in this area include advancements in modeling such as life cycle assessment, materials flow analysis, input/output economic models, and novel metrics for measuring sustainable systems. Understanding materials flow and taking advantage of such understanding to substitute less toxic, longer lived materials are important areas for consideration. The effects of substituted materials on waste streams can be explored. Innovations

in industrial ecology are encouraged. Engineering tools for estimating costs and ramifications of sustainable development must be developed, tested, and evaluated.

2. Green Engineering: In this area, research is encouraged to advance the sustainability of chemical processes, manufacturing processes, green building, and infrastructure. Many programs in the Engineering Directorate support research in environmentally benign manufacturing or chemical processes. The Environmental Sustainability program supports research that would affect more than one chemical or manufacturing process or that takes a systems or holistic approach to green engineering for infrastructure or green building. Of particular interest is the next generation of water and wastewater treatment that will dramatically decrease material and energy use, consider new paradigms for delivery of services, and promote longer life for engineered systems. Improvements in distribution and collection systems that will advance smart growth strategies and ameliorate effects of growth are research areas that are supported by Environmental Sustainability. Innovations in prevention and management of storm water, wastewater technology, indoor air quality, recycling and reuse of drinking water, and other green engineering techniques to support sustainable construction projects may also be fruitful areas for research.

3. Ecological Engineering: Topics in this area should focus on the engineering aspects of restoring ecological function to natural systems. Engineering research in enhancement of natural capital to foster sustainable development is encouraged. Many communities are involved in stream restoration, revitalization of urban rivers, and rehabilitation of wetlands that require engineering input.

4. Earth Systems Engineering: Topics in this area should consider aspects of large scale engineering research that involve mitigation of greenhouse gas emissions, adaptation to climate change, and other global scale concerns.

All proposed research should be driven by engineering principles, and be presented explicitly in an environmental sustainability context. Proposals should include involvement in engineering research of at least one graduate student, as well as undergraduates. Proposals emphasizing enhancement of American competitiveness are encouraged. Incorporation of aspects of social, behavioral, and economic sciences is welcomed.

For further information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501027

Enabling Technologies for Tissue Engineering and Regenerative Medicine (R01)

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

Deadline: September 20, 2008; January 22, 2009; May 20, 2009

The National Institutes of Health's (NIH's) National Institute of Biomedical Imaging and Bioengineering (NIBIB), National Heart, Lung, and Blood Institute (NHLBI), National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institute of Child Health and Human Development (NICHD), National Institute on Deafness and Other Communication Disorders (NIDCD), and National Institute of Dental and Craniofacial Research (NIDCR); along with the National Institute of Standards and Technology's Chemical Science and Technology Laboratory (CSTL) and Materials Science and Engineering Laboratory (MSEL); and the National Science Foundation's Division of Bioengineering and Environmental Systems (BES),

have jointly issued a funding opportunity announcement to solicit either design or hypothesis-driven research applications to promote the development of innovative technologies, tools, methods, and devices that will enable tissue engineering and regenerative medicine.

The overall goal is to engineer functional tissues in vitro for implantation in vivo or to foster tissue regeneration directly in vivo, with the purpose of replacing, repairing, preserving, or enhancing organ function lost due to disease, injury, or aging, or for use as 3D tissue model system for drug development. The intent of this program is to encourage applications with a primary focus on developing enabling technologies for tissue engineering and regenerative medicine, with the ultimate goal of improving human quality of life. This may include reproductive as well as somatic tissues.

All applications must focus on the development of the enabling technologies. The funding agencies particularly encourage investigators from the engineering, physical, and computational sciences to collaborate with those of life sciences or vice versa to submit an application to this program.

Specific scientific interests for this FOA fall in the following research areas:

1. Predictive computational models for engineering functional 3-dimensional (3D) tissues
2. 3D fabrication technologies for tissue engineering
3. Novel bioreactors to precisely control the chemical and mechanical environment for functional 3D tissue growth or to rapidly expand functional stem cells and robust evaluation methods to determine environmental requirements
4. Quantitative, non-invasive tools to monitor structure, composition, and function of engineered tissues in real time
5. Technologies for manufacturing of tissue engineered products including preservation, sterilization, packaging, and transport, and methods for quantitatively evaluating cell and tissue health and phenotypic stability throughout the process

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PAR-06-504.html>

Broad Agency Announcement for Demonstration Projects and Technology Advancements for Railroad Research and Development Program

United States Department of Transportation (DOT) Federal Railroad Administration

Deadline: September 30, 2008

This broad agency announcement solicits proposals for projects addressing the adoption and application of new technology in railroad services which are a key focus in the Federal Railroad Administration's (FRA's) research and development program. A negotiated contract, grant, or cooperative agreement may result from an accepted proposal depending upon the nature of the proposed project or the nature of the offeror/applicant. This is an unrestricted solicitation for demonstrations of various technologies or techniques related to the following areas: 1) grade crossing hazard mitigation system; 2) positive train control; 3) wireless communication system; 4) train tracking system; 5) risk assessment and hazard analysis; and 6) positive train control and communications enabling projects. The area of advanced train control and dispatching systems,

such as positive train control, is of particular interest. Positive train control uses microprocessors, advanced navigation and tracking systems, and wireless technology to interconnect the various segments of railroad operations to virtually eliminate train to train collisions and over-speed derailments, as well as to provide roadway worker protection. Technologies most likely to facilitate the improvement of railroad services are those which will 1) improve safety by reducing human and technology failures; 2) bring about capital cost reductions and economy in producing equipment and facilities; 3) reduce operating costs of rail service by providing more efficient operations; 4) improve the reliability of equipment and infrastructure components by reducing failures or reducing false failure detections; 5) enhance the revenue-generating capability of high-speed operations by attracting greater ridership by reducing trip times, upgrading customer service quality, increasing reliability, or improving on time performance; and 6) enhance the social benefits or environmental aspects of high-speed rail.

For further information: <http://fedbizopps.cos.com/cgi-bin/getRec?id=20070412a453>

Stripper Well Consortium

Penn State / DOE

Deadline: September 3, 2008 (4:00 pm EST)

Competition for the Stripper Well Consortium (SWC) funding is open to all current Full and Supporting Members. Proposals submitted by parties not having a current Consortium membership agreement in place will be returned without review.

The mission of the SWC is to assist in the development, demonstration, and commercialization of technologies to improve the production performance of the nation's natural gas and petroleum stripper wells. Proposals are being solicited from the SWC Full and Supporting Members in the following four focus areas:

Reservoir remediation, characterization, and operations

Examples include, but are not limited to, the identification of by-passed reservoirs/ zones, stimulation/ recompeletion of existing wells, and mitigation/reduction of water production.

Well-bore clean-up

Examples include, but are not limited to, dewatering, down hole separation and injection, and removal of solids such as salts, scale, and hydrocarbon precipitation.

Surface and collection optimization

Examples include, but are not limited to surface treatment/ measurement of gas, and pipeline usage/ maintenance and compression.

Environmental

The SWC is seeking to improve the production performance of stripper wells while improving the environmental footprint of the well or well field. Examples include reducing the amount of electric or gas needed for production, low-cost innovative on-site power technologies, and reducing or adding value to solid liquid by-products streams.

For further information: <http://www.energy.psu.edu/swc>

FINE ARTS

Mary McMullan Fund for Art Education

National Art Education Association (NAEA); National Art Education Foundation (NAEF)

Deadline: October 1, 2008

NAEF invites proposals for support of projects that promote art education as an integral part of the curriculum and that establish and/or improve the instruction of art in public and private elementary and secondary schools as well as schools of higher education in the United States.

The following areas will be considered for funding:

1. Curriculum Models - Development of model in-school art education programs targeting selected participants as ongoing components of the curriculum; teacher development of models that focus on student-centered solutions to art education curriculum; and development of curriculum models that focus on global perspectives of art resources
2. Pilot Projects - Development of pilot projects focusing on teacher training and student learning emphasizing the approved goals of the National Art Education Association
3. Policy Models - Development of models that promote quality art education to educators, business leaders, and policy makers (people in positions to effect lasting improvements in the status of art education)

For more information: <http://www.naea-reston.org/naef.html>

Teacher Incentive Grants Program

National Art Education Association (NAEA); National Art Education Foundation (NAEF)

Deadline: October 1, 2008

The NAEF invites proposals for support of projects that promote the teaching of art. Teaching of art includes, but is not limited to, the instructional process; curriculum; student learning; student assessment; classroom behavior, management, or discipline; or other practices relating to instructional interaction and the achievement of student learning.

For further information: <http://www.naea-reston.org/naef.html>

Research Grants in Art Education Fund

National Art Education Association (NAEA)

Due date: Oct 01, 2008

NAEF invites proposals to support research in art education that advances knowledge in the field of art education and that promulgate the goals outlined in *Creating a Visual Arts Research Agenda Toward the 21st Century*. Grants will be awarded to selected art educators whose proposals specifically focus on issues relating to one of the recommendations identified by NAEA's Commission on Research in Art Education Research Agenda (copies are available from the NAEA office).

NAEA and/or NAEF retains first rights to publish and disseminate results of the research.

For further information: <http://www.naea-reston.org/naef.html>

HUMANITIES

See also opportunities listed under MULTIPLE DISCIPLINES

Documenting Endangered Languages (DEL) - NSF 06-577

National Science Foundation (NSF)

Deadline: September 15, 2008

This multiyear funding partnership between the National Science Foundation (NSF) and the National Endowment for the Humanities (NEH) supports projects to develop and advance knowledge concerning endangered human languages. Made urgent by the imminent death of an estimated half of the 6,000 to 7,000 currently used human languages, this effort aims also to exploit advances in information technology. Funding will support fieldwork and other activities relevant to recording, documenting, and archiving endangered languages, including the preparation of lexicons, grammars, text samples, and databases. Funding will be available in the form of one- to three-year project grants as well as fellowships for up to 12 months. At least half the available funding will be awarded to projects involving fieldwork.

The Smithsonian Institution's National Museum of Natural History (NMNH) will participate in the partnership as a research host, a non-funding role.

For further information: <http://www.nsf.gov/pubs/2006/nsf06577/nsf06577.htm>

Heritage Program Grants

Kansas Humanities Council (KHC)

Deadline: September 19, 2008

Heritage Grants are intended to encourage the preservation and study of local and regional cultural resources and to assist cultural agencies to develop stronger practices in maintaining and managing local heritage resources. They are awards meant to support

- oral history projects,
- care of collections and photographs,
- basic research,
- cataloging and indexing,
- language preservation, and
- best practices.

For further information: <http://www.kansashumanities.org/grants/heritage/heritage.html>

Youth Development Grants

Kauffman Fund for Kansas City

Deadline: September 25, 2008

The Kauffman Fund believes that it is critical that children and youth acquire the physical, mental and emotional resources they need to become contributing members of the community. The Kauffman Fund will consider requests for youth development programs that are outside of the formal education setting. The goal of existing program grants is to provide support for evidence-based programs in the stated areas of interest.

For further information: <http://www.kauffmanfund.org/guidelines.cfm>

APS/British Academy Fellowship for Research in London (Franklin Research Grants and Sabbatical Fellowship)

American Philosophical Society (APS)

Deadline: October 1, 2008

In collaboration with the British Academy, the American Philosophical Society (APS) offers an exchange postdoctoral fellowship for up to three months' research in the archives and libraries of London during 2008.

For further information: <http://www.amphilsoc.org/grants/>

Franklin Research Grants

American Philosophical Society (APS)

Deadline: October 1, 2008; December 1, 2008

The American Philosophical Society's (APS') Franklin Research Grants program awards small grants to scholars in order to support the cost of noncommercial research leading to publication in all areas of knowledge. The grants are intended to help meet the costs of travel to libraries and archives for research purposes; the purchase of microfilm, photocopies, or equivalent research materials; the costs associated with fieldwork; or laboratory research expenses. The grants are not intended to meet the expenses of attending conferences or the costs of publication.

For further information: <http://www.amphilsoc.org/grants/franklin.htm>

Strategies and Tools for Archives and Historical Publishing Projects

National Archives and Records Administration (NARA)

Deadline: October 6, 2008

The National Historical Records and Publications Commission (NHPRC) seeks proposals to develop new strategies and tools that can improve the preservation, public discovery, or use of historical records. Project may also focus on techniques and tools that will improve the professional performance and effectiveness of those who work with such records, such as archivists, documentary editors, and records managers. Projects concerning records may focus on methods of working with any format including born-digital records. Publishing of historical records must focus on methods of presenting archival records as primary sources. The commission does not fund projects focused on artifacts or books.

For further information: <http://www.archives.gov/nhprc/announcement/strategies-oct.html>

Grants

National Center for Preservation Technology and Training

Deadline: October 15, 2008

The National Center for Preservation Training and Technology (NCPTT) advances the application of science and technology to historic preservation. Working in the fields of archeology, architecture, landscape architecture, and materials conservation, the center accomplishes its mission through training, education, research, technology transfer, and partnerships. The Preservation Technology and Training (PTT) Grants Program supports research, training, meetings, conferences, and publications that further the center's mission.

The following research priorities are designed to focus NCPTT's grants program, but still accommodate a variety of proposals in archeology, historic architecture, historic landscapes, and materials conservation. Although any proposal will be accepted that advances NCPTT's mission, NCPTT will give preference to research and training proposals that

- protect cultural resources against vandalism, looting, terrorism, and natural disasters;
- conserve architectural materials of the "recent past;"
- develop innovative techniques in dating, monitoring, analysis, and remote sensing of archeological sites and artifacts;
- develop appropriate technologies to preserve houses of worship and cemeteries;
- monitor and evaluate preservation treatments;
- study environmental effects of pollution on cultural resources; and
- document and preserve threatened cultural landscapes.

The aftermath of Hurricanes Katrina and Rita has brought to light a need for further research into mitigation of storm damage to cultural resources. This Special Initiative gives priority to research that develops or advances technologies to preserve storm-damaged cultural resources

For further information: <http://www.ncptt.nps.gov/News/2007/Deadline-for-Pre-Proposal-letters-for-the-2008-PTT-Grants-program-has-been-extended-to-October-15-2007.aspx>

INTERNATIONAL AREA STUDIES

See also opportunities listed under HUMANITIES and MULTIPLE DISCIPLINES

Title VIII Special Initiatives Fellowship Program

American Councils for International Education - ACTR/ACCELS

Deadline: October 1, 2008

The Title VIII Special Initiatives Fellowship Program is funded by the U.S. Department of State's Program for the Study of Eastern Europe and the Independent States of the Former Soviet Union (Title VIII) and administered by American Councils for International Education: ACTR/ACCELS.

The Title VIII Special Initiatives Fellowship Program offers grants for field research on policy-relevant topics in the vitally important countries of Central Asia and the South Caucasus: Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan. The term "policy relevant" includes, but is not limited to, anthropology, area studies, economics, education, history, international relations, language and linguistics, law, political science, security studies, and sociology. Scholars must conduct at least four months of full-time research on a topic that will enable U.S. policy makers to better understand the region. Scholars may apply to travel and work in more than one country under a single grant.

For further information:

http://www.americancouncils.org/programDetail.php?program_id=NzA=

Japanese Residencies Program

Organization of American Historians (OAH)

Deadline: October 15, 2008

With support from the Japan-United States Friendship Commission, the Organization of American Historians (OAH) and the Japanese Association for American Studies (JAAS) will send two American scholars in the summer or fall of 2008 to Japanese universities for two-week residencies. There, in English, the American historians give lectures and seminars in their specialty and provide individual consultation to Japanese scholars, graduate students, and sometimes undergraduates studying American history and culture. Visitors also participate in the collegial life of their host institutions and help expand personal scholarly networks between Japan and the U.S. The aim of the program is to contribute to the expansion of personal scholarly networks between the two countries.

Winners of the competition are expected to attend the 2008 OAH annual meeting in New York City (March 28 to 31), so that they can meet with visiting Japanese scholars and graduate students as well as the OAH-JAAS Historians' Collaborative Committee.

The two host institutions in Japan for 2008 are

- University of the Ryukyus, seeking a specialist in Japanese American History, Asian Studies, and Ethnic Studies; and
- Waseda University, seeking a specialist focusing on Asian American Literature or Comparative U.S.-Japanese History.

For further information: <http://www.oah.org/activities/awards/japan/>

Institutional Enhancement Grants

Chiang Ching-Kuo Foundation for International Scholarly Exchange (CCKF)

Deadline: October 15, 2008

Academic institutions are invited to apply for support to improve and strengthen their Chinese studies programs in the humanities and social sciences. Priority will be given to institutions that already have graduate or undergraduate programs in Chinese studies. The grants for new teaching positions are usually given for no more than three years.

For further information: <http://www.cckf.org/e-asiaIE.htm>

Walter Judd Research Grant

Chiang Ching-Kuo Foundation for International Scholarly Exchange (CCKF); American Region

Deadline: October 15, 2008

The Chiang Ching-kuo Foundation for International Scholarly Exchange offers a research grant for researchers focusing on the social, cultural, economic, or political development of Taiwan over the past few decades. One research grant in honor of the late Congressman Walter Judd will be awarded each year. Priority will be given to collaborative projects with scholars in Taiwan.

For further information: <http://www.cckf.org.tw/e-americaRG.htm>

MEDICINE & LIFE SCIENCES

See also opportunities listed under MULTIPLE DISCIPLINES

Animal Health & Nutrition 2008 Request for Proposals

Kansas City Area life Science Institute

Deadline: Continuous, through June 30, 2009. A Letter of Intent is required 30 days prior to the full application.

This RFP serves to stimulate greater collaboration between animal health/nutrition companies and academic researchers. Animal Health and Nutrition represent significant industry segments within the region and enhancing public/private research partnerships will expand opportunities in the sector. A targeted focus on animal health and nutrition leverages significant regional assets, creating significant benefits to companies and research institutions alike. KCALSI's approach

for achieving this goal is to support research development grants capable of moving new innovations and discoveries to the marketplace via productive collaboration between university and industry partners. Proposals are invited for collaborative research development grants in comparative medicine with good probability for moving a product, process, and/or medical device toward commercialization. Awards are limited to \$50,000 for one year. The number of awards will be subject to available KCALSI funds.

For further information: <http://www.kclifesciences.org/Default.aspx?tabid=373>

Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (T32)

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

Deadline: September 25, 2008; January 25, 2009; May 25, 2009

The objective of the National Research Service Award (NRSA) program is to provide predoctoral and postdoctoral research training opportunities for individuals interested in pursuing research careers in biomedical, behavioral and clinical research. Each NIH Institute and Center has a unique scientific purview and different program goals and initiatives that evolve over time. It is therefore critical that all applicants consult with the scientific/research contact at the relevant NIH Institute or Center for current information about program priorities and policies before preparing an application. This action is of utmost importance because applications with marginal or no relevance to the NIH awarding components participating in this funding opportunity announcement will not be accepted for review or considered for funding.

Participating institutes and centers are the National Institute on Aging (NIA), National Institute of Alcohol Abuse and Alcoholism (NIAAA), National Institute of Allergy and Infectious Diseases (NIAID), National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institute of Biomedical Imaging and Bioengineering (NIBIB), National Cancer Institute (NCI), National Institute of Child Health and Human Development (NICHD), National Institute on Deafness and Other Communication Disorders (NIDCD), National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institute on Drug Abuse (NIDA), National Institute of Environmental Health Sciences (NIEHS), National Eye Institute (NEI), National Institute of General Medical Sciences (NIGMS), National Heart, Lung, and Blood Institute (NHLBI), National Human Genome Research Institute (NHGRI), National Institute of Mental Health (NIMH), National Institute of Neurological Disorders and Stroke (NINDS), National Institute of Nursing Research (NINR), National Center for Complementary and Alternative Medicine (NCCAM), National Center for Research Resources (NCRR), and the Office of Dietary Supplements (ODS).

For further information: <http://grants.nih.gov/grants/guide/pa-files/pa-06-468.html>

Developmental Biology and Regeneration of the Liver (R01)

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

Deadline: October 5, 2008

The purpose of this funding opportunity is to invite qualified scientific investigators to submit applications on liver development and regeneration to fully define the molecular and cellular mechanisms underlying these processes in health and disease and to apply these findings to developing improved therapies for liver disease.

Participating institutes are the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Cancer Institute (NCI), and the National Institute of Child Health and Human Development (NICHD).

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PA-07-026.html>

Identifying and Reducing Diabetes and Obesity Related Health Disparities Within Healthcare Systems (R01)

Department of Health and Human Services (HHS)

Deadline: October 5, 2008

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) is releasing this funding opportunity announcement (FOA) to request Research Project Grant (R01) applications from institutions and organizations conducting research designed to identify healthcare system factors leading to disparate diabetes and obesity health outcomes. This FOA also requests applications designed to address identified factors or barriers that result in disparate outcomes within a healthcare system. All applications should measure the impact of identified factors or interventions on health outcomes.

Research is sought that examines at least one of the four key factors in healthcare or the interaction between the factors:

1. Healthcare professional factors such as training, screening and assessment practice, referral, knowledge, bias or discriminatory attitudes, and decision making practices
2. Patient factors such as attitudes, behavioral, cultural, education level, health care seeking, utilization of services, and physiologic or lifestyle differences
3. Healthcare organizational factors such as processes of care, policies, communication, and opportunities for individualized or tailored prevention, and standardized screening and intervention approaches
4. Community factors such as cultural norms and practices related to seeking, accepting, understanding, and using healthcare resources

The components of the factors listed are intended as examples and are not inclusive lists. Further, given the nature and complexity of this area, multidisciplinary research is highly encouraged.

Clinical, behavioral, health services, or epidemiological research will be considered responsive to this FOA. Research using animal models will be considered unresponsive.

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PA-07-388.html>

PHYSICAL SCIENCES & MATHEMATICS

See also opportunities listed under MULTIPLE DISCIPLINES

Mathematical Challenges

United States Department of Defense (DOD)

Deadline: September 8, 2008

DARPA is soliciting innovative research proposals in the area of DARPA Mathematical Challenges, with the goal of dramatically revolutionizing mathematics and thereby strengthening the scientific and technological capabilities of DoD. To do so, the agency has identified twenty-three mathematical challenges, listed below, which were announced at DARPA Tech 2007.

DARPA seeks innovative proposals addressing these Mathematical Challenges. Proposals should offer high potential for major mathematical breakthroughs associated to one or more of these challenges. Responses to multiple challenges should be addressed individually in separate proposals. Submissions that merely promise incremental improvements over the existing state of the art will be deemed unresponsive.

Mathematical Challenge One: The Mathematics of the Brain--

Develop a mathematical theory to build a functional model of the brain that is mathematically consistent and predictive rather than merely biologically inspired.

Mathematical Challenge Two: The Dynamics of Networks--Develop the high-dimensional mathematics needed to accurately model and predict behavior in large-scale distributed networks that evolve over time occurring in communication, biology, and the social sciences.

Mathematical Challenge Three: Capture and Harness Stochasticity in Nature--Address Mumford's call for new mathematics for the 21st century. Develop methods that capture persistence in stochastic environments.

Mathematical Challenge Four: 21st Century Fluids--Classical fluid dynamics and the Navier-Stokes Equation were extraordinarily successful in obtaining quantitative understanding of shock waves, turbulence, and solitons, but new methods are needed to tackle complex fluids such as foams, suspensions, gels, and liquid crystals.

Mathematical Challenge Five: Biological Quantum Field Theory--Quantum and statistical methods have had great success modeling virus evolution. Can such techniques be used to model

more complex systems such as bacteria? Can these techniques be used to control pathogen evolution?

Mathematical Challenge Six: Computational Duality--Duality in mathematics has been a profound tool for theoretical understanding. Can it be extended to develop principled computational techniques where duality and geometry are the basis for novel algorithms?

Mathematical Challenge Seven: Occam's Razor in Many Dimensions--As data collection increases can we "do more with less" by finding lower bounds for sensing complexity in systems? This is related to questions about entropy maximization algorithms.

Mathematical Challenge Eight: Beyond Convex Optimization--Can linear algebra be replaced by algebraic geometry in a systematic way?

Mathematical Challenge Nine: What are the Physical Consequences of Perelman's Proof of Thurston's Geometrization Theorem?--Can profound theoretical advances in understanding three dimensions be applied to construct and manipulate structures across scales to fabricate novel materials?

Mathematical Challenge Ten: Algorithmic Origami and Biology--Build a stronger mathematical theory for isometric and rigid embedding that can give insight into protein folding.

Mathematical Challenge Eleven: Optimal Nanostructures--Develop new mathematics for constructing optimal globally symmetric structures by following simple local rules via the process of nanoscale self-assembly.

Mathematical Challenge Twelve: The Mathematics of Quantum Computing, Algorithms, and Entanglement--In the last century we learned how quantum phenomena shape our world. In the coming century we need to develop the mathematics required to control the quantum world.

Mathematical Challenge Thirteen: Creating a Game Theory that Scales--What new scalable mathematics is needed to replace the traditional Partial Differential Equations (PDE) approach to differential games?

Mathematical Challenge Fourteen: An Information Theory for Virus Evolution--Can Shannon's theory shed light on this fundamental area of biology?

Mathematical Challenge Fifteen: The Geometry of Genome Space--What notion of distance is needed to incorporate biological utility?

Mathematical Challenge Sixteen: What are the Symmetries and Action Principles for Biology?--Extend our understanding of symmetries and action principles in biology along the lines of classical thermodynamics, to include important biological concepts such as robustness, modularity, evolvability, and variability.

Mathematical Challenge Seventeen: Geometric Langlands and Quantum Physics--How does the

Langlands program, which originated in number theory and representation theory, explain the fundamental symmetries of physics? And vice versa?

Mathematical Challenge Eighteen: Arithmetic Langlands, Topology, and Geometry--What is the role of homotopy theory in the classical, geometric, and quantum Langlands programs?

Mathematical Challenge Nineteen: Settle the Riemann Hypothesis--The Holy Grail of number theory.

Mathematical Challenge Twenty: Computation at Scale--How can we develop asymptotics for a world with massively many degrees of freedom?

Mathematical Challenge Twenty-one: Settle the Hodge Conjecture--This conjecture in algebraic geometry is a metaphor for transforming transcendental computations into algebraic ones.

Mathematical Challenge Twenty-two: Settle the Smooth Poincare Conjecture in Dimension 4--What are the implications for space-time and cosmology? And might the answer unlock the secret of "dark energy"?

Mathematical Challenge Twenty-three: What are the Fundamental Laws of Biology?--Dr. Tether's question will remain front and center in the next 100 years. I place this challenge last as finding these laws will undoubtedly require the mathematics developed in answering several of the questions listed above.

For further information: <http://www.darpa.mil/baa/BAA07-68.html>

Women Chemists Committee Travel Awards

American Chemical Society (ACS)

Deadline: September 15, 2008

American Chemical Society (ACS) Women Chemists Committee Travel Awards, funded by Eli Lilly & Company, provide funding for undergraduate, graduate, and postdoctoral women chemists to travel to scientific meetings in 2007 to present the results of their research. Awards will be made on the basis of scientific merit and financial need.

For further information:

http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_ARTICLEMAIN&node_id=1383&use_sec=false

Chemical and Biological Separations (CBS)

National Science Foundation (NSF)

Deadline: September 15, 2008

The CBS program supports fundamental research on novel methods and materials for separation processes. These processes are central to the chemical, biochemical, materials, energy, and pharmaceutical industries. A fundamental understanding of the interfacial, transport, and thermodynamic behavior of multiphase 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 integrate education and research.

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. Membrane materials to prevent fuel crossover in fuel cells are also being sought. Adsorption on materials ranging from hydrogels to micas 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.

Research topics in CBS include fundamental molecular-level work on

- biochemical separations and purification processes; microporous and novel molecular-recognition adsorbents; self-assembly in the synthesis of adsorbents and membranes; nanostructured materials for separations; fuel-cell membranes; biomimetic materials for separations; chiral separations; separations for environmentally benign processing;
- novel polymeric and ceramic membranes; hybrid separation processes; control and separation of organic crystalline materials; separations using ionic liquids; purification of drinking water; membranes for ion-selective sensors; adsorption and chromatography; field (flow, magnetic, electrical) induced separations.; separation of molecular constituents from blood; thermodynamics and transport simulations for the design of separation processes; combinatorial design of separation systems; and rational ligand design for separations.

For further information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13363

Analysis

National Science Foundation (NSF)

Deadline: October 7, 2008

The Analysis program supports basic research in that area of mathematics whose roots can be traced to the calculus of Newton and Leibniz. Given its centuries-old ties to physics, analysis has influenced developments from Newton's mechanics to quantum mechanics and from Fourier's

study of heat conduction to Maxwell's equations of electromagnetism to Witten's theory of supersymmetry. More generally, research supported by the Analysis program provides the theoretical underpinning for the majority of applications of the mathematical sciences to other scientific disciplines. Current areas of significant activity include nonlinear partial differential equations; dynamical systems and ergodic theory; real, complex, and harmonic analysis; operator theory and algebras of operators on Hilbert space; mathematical physics; and representation theory of Lie groups/algebras. Emerging areas include random matrix theory and its ties to classical analysis, number theory, quantum mechanics, and coding theory; and development of noncommutative geometry with its applications to modeling physical phenomena. It should be stressed, however, that the underlying role of the Analysis program is to provide support for research in mathematics at the most fundamental level. Although this is often done with the expectation that the research will generate a payoff in applications at some point down the road, the principal mission of the program is to tend and replenish an important reservoir of mathematical knowledge, maintaining it as a dependable resource to be drawn upon by engineers, life and physical scientists, and other mathematical scientists, as need arises.

For further information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5434&org=DMS

Plasma Physics

National Science Foundation (NSF)

Deadline: October 22, 2008

The plasma physics program funds research in the fundamental physics of plasmas. Research areas include plasma turbulence and shocks, turbulent and nonlocal, collisional transport with and without strong magnetic fields, non-neutral plasmas, cold plasmas, strongly-coupled and dusty plasmas, laser-plasma interactions, ultra-short pulse and/or ultra-intense laser plasma interactions, high-energy-density plasmas, and low temperature plasmas. Both theoretical and experimental research is included. Unless otherwise requested, the proposal will be also considered for funding jointly by NSF and DOE as established by the NSF/DOE Partnership in Basic Plasma Science and Engineering agreement.

For further information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503252

SOCIAL SCIENCES

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

Special Education Research: Social and Behavioral Outcomes to Support Learning - 84.324A

United States Department of Education (ED), Institute of Education Sciences (IES)

Deadline: October 2, 2008

The purpose of the Social and Behavioral Outcomes to Support Learning (Social/Behavioral) research grant program is to contribute to the prevention or amelioration of behavior problems in students with or at-risk for disabilities and concomitantly, improve their developmental and academic outcomes by identifying programs or practices that are associated with better behavioral, social, emotional, or functional outcomes for students with or at risk for disabilities and the conditions that mediate and moderate the effects of such programs or practices; developing programs that are intended to improve behavioral, social, emotional, or functional outcomes of students with or at risk for disabilities; establishing the efficacy of interventions that are intended to improve behavioral, social, emotional, or functional outcomes of students with or at risk for disabilities; evaluating the effectiveness of interventions implemented at scale; and developing and validating assessment tools and procedures, including the "functional behavioral assessments" stipulated in IDEA [Sec. 615 (k)(1)] for use in home, instructional, and non-instructional settings to identify or diagnose social skill deficits or behavior problems, and to monitor the behavior of students with or at risk for disabilities.

The long-term outcome of this program will be an array of tools and strategies (e.g., assessment tools and interventions or strategies) that have been documented to be effective for preventing behavior problems and improving the behavioral, emotional, functional, social skills, and likewise, the developmental trajectory and academic performance of students with or at risk for disabilities from kindergarten through grade 12.

For further information: http://ies.ed.gov/ncser/funding/soc_beh/index.asp

Harmonization of Longitudinal Cross-National Surveys of Aging (R21)

Department of Health and Human Services (HHS); National Institutes of Health (NIH); National Institute on Aging (NIA)

Deadline: October 16, 2008; February 16, 2009; June 16, 2009

This funding opportunity announcement (FOA) solicits Exploratory/Developmental (R21) grant applications from applicant organizations that propose ex ante or ex post harmonization of nationally representative panel surveys on aging with the Health and Retirement Study or international studies that utilize a survey instrument that is harmonized with the Health and Retirement Study.

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PAS-07-387.html>

Human, Social, Cultural, and Behavioral Modeling: Dynamic Models of the Effect of Culture on Collaboration and Negotiations - BAA-07-036

United States Department of Defense (DOD)

Deadline: October 23, 2008

The objective of this topic is to identify and/or develop adequate theory to help us understand how culture impacts dynamic collaboration and negotiations and to develop a model to predict collaboration and negotiation performance. The research should identify cultural differences that affect behavior in intercultural interactions under conditions of interdependence, such as orientation toward collaboration, conflict management styles, and communication norms. The model should accommodate the conceptualization of common and unique properties of culture, at the national, local, and organizational levels of analysis, the influence of context (e.g., prior experience and type of scenario or mission); as well as objective measures of collaboration (e.g., trust, conflict, communication patterns, and self-synchronization), organizational structure (e.g., hierarchical vs. matrixed), and local operational success (e.g., situational understanding, mission success, and second- and third-order effects in an environment). The validated model will lead to recommendations for how to use cultural knowledge to dynamically influence interactions, collaboration, and successful negotiations among team members, friendly, neutral, and especially unfriendly individuals and groups. The cultures of particular interest are the major variants of the Iraqi, Iranian, Turkish, and other Arabic cultures in that order of precedence.

For further information: <http://www.grants.gov/search/search.do?oppId=14530&mode=VIEW>

Dynamics of Coupled Natural and Human Systems (CNH) - NSF 07-598

National Science Foundation (NSF)

Deadline: November 18, 2008

The Dynamics of Coupled Natural and Human Systems (CNH) is a multidirectorate program jointly operated by three NSF directorates (Biological Sciences; Geosciences; and Social, Behavioral, and Economic Sciences). In addition to those three directorates, other NSF units (including the Directorate for Engineering, the Directorate for Education and Human Resources, the Office of International Science and Engineering, and the Office of Polar Programs) participate in evaluation of proposals. Starting in FY 2008, the Forest Service of the U.S. Department of Agriculture (USDA) will participate as a partner in the conduct of annual CNH competitions. CNH is a direct successor of a special competition that was part of the Biocomplexity in the Environment emphasis area.

The Dynamics of Coupled Natural and Human Systems (CNH) Program supports basic research and related activities that enhance fundamental understanding of the complex interactions within and among natural and human systems. CNH focuses on the complex interactions among human and natural systems at diverse spatial, temporal, and organizational scales. CNH seeks to advance basic knowledge about the system dynamics -- the processes through which systems function and interact with other systems. CNH-supported projects must examine relevant natural AND human systems. Proposals cannot focus solely or largely on either human systems or on

natural systems. Projects also must examine the full range of coupled interactions and feedbacks among relevant systems. The arrows in the accompanying figure symbolize these relationships.

For further information: <http://www.nsf.gov/pubs/2007/nsf07598/nsf07598.htm>

MULTIPLE DISCIPLINES

Developing Global Scientists and Engineers - NSF 04-036

National Science Foundation (NSF); Directorate for Engineering (ENG); Office of International Science and Engineering (OISE)

Deadline: September 15, 2008

The United States needs to educate a globally engaged science and engineering workforce capable of performing in an international research environment in order to remain at the forefront of world science and technology. To support this aim, this program provides highest quality international research experiences for U.S. students. Whereas the International Research Experiences for Students (IRES) component of the program supports groups of U.S. undergraduate or graduate students conducting research abroad in collaboration with foreign investigators, the Doctoral Dissertation Enhancement Projects (DDEP) component supports the dissertation research abroad of one doctoral student in collaboration with a foreign investigator.

For further information: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12831

Informal Science Education (ISE) - NSF 08-547

National Science Foundation (NSF); Directorate for Education and Human Resources (EHR); Division of Research on Learning in Formal and Informal Settings (DRL)

Deadline: Letter of Intent: September 18, 2008

Full Proposal: December 18, 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 knowledge and practice of informal science education. Project Grants are the primary means in which the ISE program invests in projects that develop and implement informal learning experiences for the general public. These projects have as their primary audience informal learners, from young children to senior citizens. The program also supports projects that enhance the infrastructure 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, innovation, and collaboration.

ISE also may make a limited number of awards in the following special grant categories: Planning Grants; Conference, Symposia, and Workshop Grants; and Grant Supplements. Also, under exceptional circumstances that justify consideration of a proposal outside the normal

process, ISE will accept the submission of Small Grants for Exploratory Research (SGER) proposals or unsolicited proposals; PIs must discuss their projects with program officers before considering preparation of proposals in these categories.

Planning grants are intended for the exploratory phase of highly innovative projects or aspects of complex ISE projects that require resources beyond those usually needed for proposal development. Planning grants can be used for any type of informal science education activity such as an exhibition, museum activity, media project, community program, or web-based project that would be appropriate for ISE funding based on this solicitation. Examples include demonstration of the proof of concept or a focused planning effort for a large national or regional collaboration.

Conferences, symposia, and workshops provide a specific format for certain projects targeting professionals. Conferences are one way that the ISE program can provide support to build capacity in the field of informal science learning. Conference, Symposia, and Workshop Grants are intended to assemble experts for purposes of discussing issues of relevance to the informal learning community; the primary target audiences must be informal science education professionals, not the general public or professionals primarily from other fields. For example, conferences may be based on promoting new partnerships and collaborations, or exploring findings and effective practices in such areas as informal learning research and evaluation. Outcomes from these awards are expected to extend beyond publication of the proceedings or a report. Conferences or meetings and the facilities in which they are held must be accessible to participants with disabilities. The budget may include publication costs; dissemination must be a major project component.

For existing ISE awards, the ISE program will consider requests for small amounts of supplemental funding, Grant Supplements, to ensure completion of the original scope of work based on changes in conditions after the award was made or to take advantage of opportunities to extend further the project impact. Supplemental funding will not be approved for such purposes as defraying costs associated with increases in salaries or additional indirect cost reimbursement. For their Supplement requests to be considered, PIs must be up-to-date in the submission of annual reports.

For further information: <http://www.nsf.gov/pubs/2008/nsf08547/nsf08547.htm>

NIDDK Education Program Grants (R25)

Department of Health and Human Services (HHS); National Institutes of Health (NIH); National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

Deadline: September 25, 2008

NIDDK is soliciting Research Education (R25) grant applications from applicant organizations that propose to create educational opportunities to attract undergraduate students, graduate students, and postdoctoral fellows to careers in areas of biomedical or behavioral research of particular interest to the NIDDK while fostering the career development of these students and fellows. The NIDDK is especially interested in attracting students and postdoctoral fellows from

scientific disciplines underrepresented in disease-oriented biomedical research such as engineering, informatics, computer science, and computational sciences, to encourage them to apply their expertise to research relevant to diabetes and other endocrine and metabolic diseases, digestive and liver diseases, nutrition, obesity research and prevention, and kidney, urologic and hematologic diseases.

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-554.html>

AHRQ Health Services Research Demonstration and Dissemination Grants (R18)

Department of Health and Human Services (HHS); Agency for Healthcare Research and Quality (AHRQ)

Deadline: September 25, 2008

This program announcement expresses AHRQ priority interests for ongoing extramural grants for research demonstration and dissemination projects to:

1. Support improvements in health outcomes. Drawing from literature on variations in clinical practice and associated outcomes, the documented increase in the prevalence of chronic disease, and growing interest in the impact of different delivery modalities and financing arrangements on the outcomes of care, AHRQ seeks to support research to understand and improve decision-making at all levels of the health care system, the outcomes of health care, and, in particular, what works, for whom, when, and at what cost.
2. Strengthen quality measurement and improvement. AHRQ is interested in a broad array of research topics, including studies to develop valid and reliable measures of the process and outcomes of care, causation and prevention of errors in health care, strategies for incorporating quality measures into programs of quality improvement, and dissemination and implementation of validated quality improvement mechanisms.
3. Identify strategies to improve access, foster appropriate use, and reduce unnecessary expenditures. This area focuses on issues pertaining to the types of health care services Americans use, the cost of these services and sources of payment, determinants of access to care, and whether particular approaches to health care delivery and financing, or characteristics of the health care market, alter behaviors in ways that improve access and promote cost-effective use of health care resources.

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PA-07-247.html>

CreativeIT - NSF 08-572

National Science Foundation (NSF)

Deadline: September 26, 2008

This program solicits proposals for projects that explore synergistic cross disciplinary research in creativity and computer science and information technology. Information technology is playing

an increasing role in extending the capability of human creative thinking and problem solving. The study of creativity and computing as a way to advance computer science and information technology, cognitive science, engineering, education, or science can lead to new models of creative computational processes, innovative approaches to education that encourage creativity, innovative modes of research that include creative professionals, and new technology to support human creativity.

There are two types of projects:

1. Pilot Projects typically have a single PI and a single undergraduate or graduate student. A Pilot project identifies a synergy from understanding creativity in a specific context in which a computing environment has the potential to lead to innovative and creative advances in one or more disciplines. These projects will start with a set of objectives that are consistent with the CreativeIT program and will pursue a methodology, including a plan for evaluation, that is consistent with the claims or objectives in the proposal. The outcomes of a Pilot Project may be an innovative solution, model, or area of research that will benefit from further development.
2. Major Projects have one or more PIs and multiple undergraduate and graduate students. A Major project brings together a group of people to develop a synergistic effect that can transform our understanding of models, computing environments or education relevant to CreativeIT. While the research may use a design approach in which the specifics of the problem and solution may change during the life of the project, the overall objectives and methods are well defined. This type of project is well founded on previous research in the individual or combined disciplines involved in the project.

The NSF divisions involved in this program are (1) from the Directorate for Computer and Information Science and Engineering: the Division of Information and Intelligent Systems, the Division of Computing and Communication Foundations, and the Division of Computer and Network Systems; and (2) from the Directorate for Social, Behavioral, and Economic Sciences: Division of Behavioral and Cognitive Sciences.

For more information: <http://www.nsf.gov/pubs/2008/nsf08572/nsf08572.htm>

Title VIII Combined Research and Language Training (CRLT) Program

American Councils for International Education - ACTR/ACCELS

Deadline: October 1, 2008

Funded by the U.S. Department of State, Program for the Study of Eastern Europe and the Independent States of the Former Soviet Union (Title VIII), the American Councils Combined Research and Language Training (CRLT) Program serves U.S. graduate students and scholars who, in addition to support for research, require supplemental language instruction. The competition for funding is open and merit-based. American Councils can provide on-site training in virtually any of the languages of Eurasia.

For further information: http://www.americancouncils.org/programs.php?program_id=NDk=

Postdoctoral Fellowships in the Humanities and Arts, Sciences and Professions

University of Michigan; Michigan Society of Fellows

Deadline: October 1, 2008

The Michigan Society of Fellows, under the auspices of the Rackham Graduate School, was established in 1970 with endowment grants from the Ford Foundation and the Horace H. and Mary Rackham Funds. The most distinctive aspect of the society is a multidisciplinary emphasis which gives the fellows an opportunity to interact across disciplines and to expand their horizons and knowledge. While their own scholarship is enriched, the fellows also enrich the University of Michigan through teaching during their residency and bringing new insights to other faculty members.

The society selects applicants for appointment to fellowships in the arts and humanities, in the social, physical, and life sciences, and in the professional schools.

Fellows are appointed as assistant professors in appropriate departments at the University of Michigan and as postdoctoral scholars in the Michigan Society of Fellows. They are expected to be in residence during the academic years of the fellowship, to teach for the equivalent of one academic year, to participate in the informal intellectual life of the society, and to devote time to their independent research.

For further information: <http://www.rackham.umich.edu/Faculty/society.html>