

UM-St. Louis Office of Research Administration

Funding Opportunities

Federal Agencies

MARCH 2008

This report contains a sampling of new/updated funding opportunity announcements issued by U.S. federal agencies. For additional opportunities, visit Grants.gov (www.grants.gov), Grant Advisor Plus (<http://www.grantadvisor.com/>), InfoEd (<http://www1.infoed.org/>), and UMSL Internal Awards program (<http://www.umsl.edu/services/ora/sponsored-projects/internal.html>).

Agency for International Development (USAID)

- Hungary USAID-Budapest, Kosovo Anti-Trafficking Program (KAP) Grant
<http://www07.grants.gov/search/search.do?mode=VIEW&opId=40871>

The goal of this activity is to maintain a low number and possibly even reduce the current number of victims of trafficking. The purpose is to improve the long-term reintegration services and increase participation of community stakeholders in prevention activities. This will be accomplished by providing comprehensive reintegration activities combined with concrete prevention activities that will reduce the vulnerability of potential persons to the phenomenon of trafficking. It will also be accomplished by tackling the root causes of trafficking and thereby provide a long-term prevention intervention for communities and individuals that are especially vulnerable to being trafficked. The program will support the Government of Kosovo activities to implement the future action plan to combat trafficking in human beings.

- Madagascar USAID-Antananarivo, Social Marketing Program for Child, Maternal, and Reproductive Health Products and Services Grant
<http://www07.grants.gov/search/search.do?mode=VIEW&opId=40691>

The overall aim of this program is to contribute to the improvement of the health status of the Malagasy people, especially women and children. This will be accomplished through a social marketing project designed to improve health among key target groups by ensuring widespread access to affordable, high-quality family planning, reproductive health, HIV prevention, malaria prevention and treatment, diarrheal disease prevention and treatment, STI treatment, and safe water treatment products. Special focus will be given to social marketing activities designed to expand the reach of essential health products and services further into rural and underserved areas. The solicitation will also target youth age 15-24 in order to assist them to delay onset of sexual debut, delay pregnancy, and protect themselves from unwanted pregnancy and STIs including HIV.

- Nigeria USAID-Abuja, Support to Civil Society Organizations/Faith Based Organizations Network to Provide HIV/AIDS Prevention, Care and Treatment Services
<http://www07.grants.gov/search/search.do?mode=VIEW&opId=40582>

The program elements intended to provide a framework of specific activities for HIV/AIDS prevention, care and/or treatment include: 1. Strengthening capacity of indigenous organizations to respond to HIV/AIDS in their communities. 2. Providing quality comprehensive and compassionate care for AIDS orphans and vulnerable children. 3. Improving the quality of life of HIV-infected individuals and their families through services such as home-based care. 4. Preventing HIV transmissions among youth, couples, and most at risk

populations. 5. Improving the lives of people infected and affected by HIV/AIDS through strategic wrap-around programs such as food and nutrition. 6. Strengthening the legal policy and institutional framework for orphans and vulnerable Children care and protection at national and sub-national levels.

- Senegal USAID-Dakar, Enabling Quality, Access and Transparency in Education for Senegal Grant

<http://www07.grants.gov/search/search.do?mode=VIEW&oppld=40821>

The United States Agency for International Development (USAID) is seeking applications from organizations for a cooperative agreement to fund a program entitled "Enabling Quality, Access, and Transparency in Education for Senegal".

- South Africa USAID-Pretoria, SUPPORT OF THE SOUTH AFRICAN DEPARTMENT OF EDUCATION <http://www07.grants.gov/search/search.do?mode=VIEW&oppld=40546>

The purpose of this Annual Program Statement is to provide programs that will support the Department of Education in South Africa to mitigate the impact of HIV and AIDS within the education sector and to strengthen the capacity of the students, teachers and education officials to deliver quality education and training.

- Thailand USAID-Bangkok, Pre-solicitation notice_US-China Global Climate Change Partnership Program Grant

<http://www07.grants.gov/search/search.do?mode=VIEW&oppld=40592>

Pre-Solicitation Notice - RFA 486-08-008 February 1, 2008 Title: U.S.-China Global Climate Change Partnership Program This is a pre-solicitation notice only. No applications are requested at this time. USAID Regional Development Mission for Asia (RDMA) plans to issue a Request for Applications (RFA) on technical assistance activities to be implemented in China relating to global climate change.

Department of Agriculture (USDA)

- Distance Learning & Telemedicine Grant Program

<http://www07.grants.gov/search/search.do?mode=VIEW&oppld=40640>

The Distance Learning and Telemedicine (DLT) Program is specifically designed to meet the educational and health care needs of rural America through the use of advanced telecommunications technologies. In the Grant Program, the focus is on funding end-user equipment that operates via telecommunications to connect students and teachers or medical providers and patients in separate rural locations.

- Housing and Community Facilities Programs Rural Community Development Initiative (RCDI) Grant <http://www07.grants.gov/search/search.do?mode=VIEW&oppld=40654>

These grants will be made to qualified intermediary organizations that will provide financial and technical assistance to recipients to develop their capacity and ability to undertake projects related to housing, community facilities, or community and economic development.

Department of Commerce (DOC)

- Availability of Funds under the Public Works and Economic Development Act of 1965 Grant <http://www07.grants.gov/search/search.do?mode=VIEW&oppld=40747>

EDA's mission is to lead the federal economic development agenda by promoting innovation and competitiveness, preparing American regions for growth and success in the worldwide economy. Under this announcement, EDA solicits proposals or applications (as appropriate) for the following programs

under PWEDA: (i) Public Works; (ii) Planning; (iii) Local Technical Assistance; and (iv) Economic Adjustment Assistance.

- FY 2008 University Center Economic Development Program Competition
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40596>

EDA's mission is to lead the federal economic development agenda by promoting innovation and competitiveness, preparing American regions for growth and success in the worldwide economy. EDA fulfills its mission by helping our partners across the Nation create wealth and minimize poverty by promoting a favorable business environment to attract private capital investment and higher-skill, higher-wage jobs through world-class capacity-building, planning, infrastructure, research grants and strategic initiatives. Institutions of higher education have many assets, such as faculty, staff, students, libraries, laboratories, facilities, and computer systems, which can help to address regional economic problems and opportunities. With funding from EDA, institutions of higher education and consortia of institutions of higher education establish and operate University Centers. These EDA-sponsored University Centers conduct applied research, provide technical assistance to public and private sector organizations, and conduct other activities with the goal of enhancing regional economic development.

Department of Defense (DOD)

- National Security Science and Engineering Faculty Fellowship (NSSEFF) Program
<http://www.grants.gov/search/search.do?mode=VIEW&flag2006=true&oppId=16422>

The NSSEFF program has the following objectives: provide extensive, long-term financial support to distinguished university faculty scientists and engineers to conduct unclassified, fundamental research on topics of interest to DoD; ensure that our nation has an active, long-term, well informed, and aggressive research and engineering portfolio that attracts creative and energetic scientists, engineers, and their students. The Fellowship is open to U.S. citizens whose earned Ph.D. was awarded within the past 25 years. Accredited, degree-granting educational institutions may nominate distinguished faculty scientists and engineers to receive National Security Science and Engineering Faculty Fellowships. The Fellows will be selected based on competitive evaluations of the scientific and technical merit of the nominees' white papers and proposals.

Air Force Office of Scientific Research (AFOSR)

- Research Interests of the Air Force Office of Scientific Research
<http://www.grants.gov/search/search.do?mode=VIEW&flag2006=true&oppId=11104>

AFOSR plans, coordinates, and executes the Air Force Research Laboratory's (AFRL) basic research program in response to technical guidance from AFRL and requirements of the Air Force; fosters, supports, and conducts research within Air Force, university, and industry laboratories; and ensures transition of research results to support USAF needs. The focus of AFOSR is on research areas that offer significant and comprehensive benefits to our national war fighting and peacekeeping capabilities. These areas are organized and managed in three scientific directorates: Aerospace and Materials Sciences, Physics and Electronics, and Mathematics, Information and Life Sciences.

Defense Advanced Research Projects Agency (DARPA)

- BAA0718 Spin Torque Transfer-Random Access Memory (STT-RAM) Grant
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40833>

DARPA is soliciting innovative research and development (R&D) proposals in the area of Spin-Torque Transfer Random Access Memory technologies. The goal of this program is to develop materials and processes to fully exploit the

spin-torque transfer (STT) phenomenon for creating "universal" memory elements. A universal memory element is one that exhibits scalability for high capacity of storage per unit volume, as well as high read/write speed, compatibility with CMOS processes, and non-volatility. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice. Prior research in micro-magnetics and spintronics has led to the exploitation of giant magnetoresistance (GMR) effects for rotating magnetic disk drive memories, as well as magnetic tunneling junctions (MTJ) for magnetic random access memory (MRAM). The spin-torque transfer (STT) effect is a recent discovery that exploits magnetic spin states to electrically change the magnetic orientation of a material (Science 285, 867 (1999)). Components based on the STT effect can have the properties of a universal memory, high density, high speed, non-volatility, high endurance, and can also be well suited for harsh environments such as those with exposure to ionizing radiation. In addition, they can operate from a single power supply voltage level greatly simplifying associated circuitry. This program is aimed at developing the core technology for exploiting spin-torque transfer and related phenomena for producing large-scale memories. Compatibility and stability with expected mainstream processes for semiconductor electronics and patterned media is an important attribute that should enable significant leverage for these new technologies in delivering early demonstrations and in gaining wider acceptance.

- Defense Sciences Research & Technology Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=17021>

The mission of the Defense Advanced Research Projects Agency's (DARPA) Defense Sciences Office (DSO) is to identify and pursue high-risk/high-payoff research initiatives throughout a broad spectrum of the science and engineering disciplines and to transform these initiatives into important, radically new military capabilities. To carry out this mission, DSO seeks research ideas and areas that might lead to innovations in science and engineering. Therefore, DSO is soliciting proposals for advanced research and development in a variety of enabling technical areas.

- Microsystems Technology Office-Wide BAA Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16872>

The Microsystems Technology Office's (MTO) mission is to exploit breakthroughs in materials, devices, circuits, and mathematics to develop beyond leading edge Microsystems components with revolutionary performance and functionality to enable new platform capability for the Department of Defense. To execute this mission, MTO supports revolutionary research in electronics, photonics, MEMS, algorithms, and combined Microsystems technology to deliver new capabilities to sense, communicate, energize, actuate, and process data and information for the war fighter. MTO regularly publishes Broad Agency Announcements requesting responses to specific program topics. This announcement seeks revolutionary research ideas for topics not being addressed by ongoing MTO programs or other published BAA solicitations. This BAA is primarily, but not solely, intended for early stage research that will lead to larger, focused, MTO programs in the future.

- Strategic Technology Office Strategic Technologies Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16858>

The Defense Advanced Research Projects Agency's (DARPA) Strategic Technology Office (STO) is soliciting proposals under this Broad Agency Announcement (BAA) for the performance of research, development, design, and testing that directly supports Strategic Technology Office (STO). This includes Space and Near-Space Sensors and Systems; Strategic and Tactical

Networks; Information Assurance; Counter Underground Facilities; Weapons of Mass Destruction (WMD) Defense; Small Unit Operations; Maritime Operations; and Core Strategic Technologies.

Department of the Army

- ARO Young Investigator Program (YIP) Grant
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40859>

ARO's Young Investigator Program (YIP) seeks to identify and support academic scientists who have received Ph.D. or equivalent degrees within the last five years (on or after 01 November 2002 for this FY08 competition) and who show exceptional promise for doing creative research. The objectives of this program are to attract outstanding faculty members of Institutions of Higher Education (hereafter also called "universities") to the Department of the Army's research program, to support their research, and to encourage their teaching and research careers.

Office of Naval Research (ONR)

- Compact Power Conversion Technologies Grant
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40857>

The Navy is embarking on the development of Next Generation Integrated Power System (NGIPS) for application on future surface ships and submarines as a means of providing better fuel economy, architectural flexibility and electricity for high energy mission systems. Limited by the shipboard space and weight allocated to power generation, distribution and conversion equipment, the Navy is interested in technology solutions that can cost-effectively increase Power System power density. This BAA seeks efforts to develop electrical power conversion component, subsystem and architectural solutions that align with or enhance the efforts put forth under NGIPS. In addition, consideration will be given for advanced technologies suitable for Navy-after-Next systems where technologies or concepts align with Navy power system development plans beyond NGIPS.

- National Security Science and Engineering Faculty Fellowship (NSSEFF) Program
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16422>

The Naval Postgraduate School (NPS) will receive applications for the National Security Science and Engineering Faculty Fellowships (NSSEFF) Program. The Department of Defense (DoD), Office of the Director, Defense Research and Engineering (DDR&E) has established the NSSEFF program with the following objectives: provide extensive, long-term financial support to distinguished university faculty scientists and engineers to conduct unclassified, fundamental research on topics of interest to DoD; ensure that our nation has an active, long-term, well informed, and aggressive research and engineering portfolio that attracts creative and energetic scientists, engineers, and their students. The Fellowship is open to U.S. citizens whose earned Ph.D. was awarded within the past 25 years. Accredited, degree-granting educational institutions may nominate distinguished faculty scientists and engineers to receive National Security Science and Engineering Faculty Fellowships. The Fellows will be selected based on competitive evaluations of the scientific and technical merit of the nominees' white papers and proposals.

- Research on Edge Organizations in the Context of Network-Centric Operations Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=17008>

The Naval Postgraduate School (NPS) has established and currently manages the Center for Edge Power to conduct research and educational activities proposed on behalf of the OASD (NII)/DoD CIO. The Edge Center focuses on research pertaining to Defense command, control and organization in general and on Edge Organizations in

the context of Network Centric Operations in particular. The research will be performed by faculty and students at NPS and other top-tier research institutions, and it will be integrated into a coherent research stream. This research opportunity description outlines five research areas of interest in FY08. Research Area A: Hypothesis Testing of Edge Organizations Research Area B: Near-Optimizing Knowledge and Power Flows Research Area C: Infrastructure Enhancement Research Area D: Exploring and Exploiting Intercultural Knowledge Flows and Organizational Forms Research Area E: Emerging Research.

Department of Education (ED)

- Disability and Rehabilitation Research Projects (DRRPs)

The purpose of the DRRP program is to improve the effectiveness of services authorized under the Rehabilitation Act of 1973, as amended, by developing methods, procedures, and rehabilitation technologies that advance a wide range of independent living and employment outcomes for individuals with disabilities, especially individuals with the most severe disabilities. DRRPs carry out one or more of the following types of activities, as specified and defined in 34 CFR 350.13 through 350.19: research, development, demonstration, training, dissemination, utilization, and technical assistance.

- Asset Accumulation and Economic Self-Sufficiency for Individuals with Disabilities CFDA 84.133A-8 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16702>
- Center on Knowledge Translation for Technology Transfer CFDA 84.133A-7 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16701>
- Classification and Measurement of Medical Rehabilitation Interventions CFDA 84.133A-5 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16698>
- Health and Health Care Disparities Among Individuals with Disabilities CFDA 84.133A-3 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16696>
- Health Care Coordination for Individuals with Physical Disabilities CFDA Number 84.133A-1 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16690>
- Research and Knowledge Translation Center for Individuals with Disabilities and Their Families CFDA 84.133A-10 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16705>
- Technology Access in Resource-Limited Environments CFDA 84.133A-9 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16703>
- Traumatic Brain Injury Model Systems (TBIMS) Centers Collaborative Research Projects CFDA 84.133A-4 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16697>
- Vocational Rehabilitation Service Models for Individuals with Autism Spectrum Disorders CFDA 84.133A-6 Grant

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16699>

- International Research and Studies Program

The International Research and Studies Program provides grants to conduct research and studies to improve and strengthen instruction in modern foreign languages, area studies, and other international fields.

- CFDA 84.017A-1
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16913>
- CFDA 84.-017A-3 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16915>

- Rehabilitation Engineering Research Center (RERC)

The purpose of the RERC program is to improve the effectiveness of services authorized under the Rehabilitation Act of 1973, as amended, by conducting advanced engineering research and development on innovative technologies that are designed to solve particular rehabilitation problems, or remove environmental barriers. RERCs also demonstrate and evaluate such technologies, facilitate service delivery system changes, stimulate the production and distribution of new technologies and equipment in the private sector, and provide training opportunities.

- Accessible Public Transportation CFDA Number 84.133E-3
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16714>
- Communication Enhancement CFDA Number 84.133E-5 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16717>
- Hearing Enhancement CFDA 84.133E-1 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16712>
- Personal Assistance Services (PAS) in the 21st Century CFDA 84.133B-1 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16706>
- Prosthetics and Orthotics CFDA Number 84.133E-4
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16716>
- Universal Interface and Information Technology Access CFDA 84.133E-6 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16718>
- Wheeled Mobility CFDA Number 84.133E-7 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16719>

- Rehabilitation Research and Training Centers (RRTCs)

The purpose of the RRTC program is to improve the effectiveness of services authorized under the Rehabilitation Act of 1973, as amended, through advanced research, training, technical assistance, and dissemination activities in general problem areas, as specified by NIDRR. Such activities are designed to benefit rehabilitation service providers, individuals with disabilities, and the family members or other authorized representatives of individuals with disabilities.

- Community Living and Employment for Individuals with Intellectual and Developmental Disabilities CFDA Number 84.133B-5 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16710>
- Disability Statistics and Demographics CFDA Number 84.133B-3 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16707>
- Health and Function Across the Lifespan of Individuals With Intellectual and Developmental Disabilities CFDA Number 84.133B-4 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16708>
- Special Focus Competition
 - European Union-United States Atlantis Program CFDA 84.116J Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16704>
 - The purpose of the program is to provide grants for or enter into cooperative agreements with eligible applicants to improve postsecondary education.
 - Program for North American Mobility in Higher Education Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16830>
 - To provide grants for or enter into cooperative agreements to improve postsecondary education opportunities by focusing on problem areas or improvement approaches in postsecondary education.
 - U.S.-Brazil Higher Education Consortia Program CFDA 84.116M Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16711>
 - The purpose of this program is to provide grants or enter into cooperative agreements to improve postsecondary education opportunities by focusing on problem areas in postsecondary education, or approaches to improve postsecondary education.

Department of Energy (DOE)

- Basic Research and Modeling to Support Integrated Assessment of Climate Change Impacts and Adaptations Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16871>

Funding for basic research and modeling to support integrated assessment of climate change impacts and adaptations under the Integrated Assessment Research Program (IARP). The IARP, located within the Climate Change Research Division (CCRD) of BER, supports the U.S. Climate Change Science Program in efforts to understand, model, and assess the complex interaction of the integrated human-natural system on climate forcing as well as the impacts to the human- natural system from climate change. Past work of the IARP has emphasized understanding and predicting anthropogenic drivers of climate change. Future work seeks to improve our scientific understanding of the impacts to human and natural systems from climate change and the potential capacity to adapt to such change. Applications are requested that advance the fundamental methodologies for analysis of climate change impacts and adaptations, including innovative models and approaches.
- Hydrogen Storage Engineering Center of Excellence Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16974>

The Department of Energy (DOE) Hydrogen, Fuel Cells and Infrastructure Technologies Program within the Office of Energy Efficiency and Renewable Energy (EERE) is requesting applications to fund one multidisciplinary Hydrogen Storage Engineering Center of Excellence (CoE) team. This CoE team will complement the work of existing independent projects and the three materials-based hydrogen storage CoEs (adsorbents, metal hydrides and chemical hydrogen storage materials) by researching and developing onboard vehicular hydrogen storage systems and components that will allow for a driving range of greater than 300 miles while meeting vehicular packaging, safety, cost and performance requirements. The specific objectives of the CoE are to develop and test innovative concepts, components and systems to meet DOE hydrogen storage system performance and cost targets. The CoE will develop engineering, design, and system models that address on-board subsystems, including refueling, thermal management, hydrogen discharge, and the storage-delivery interface. The CoE will also design, construct, test, evaluate and decommission subscale prototypes based upon adsorbents, metal hydrides and chemical hydrogen storage materials.

- Multiscale Mathematics and Optimization for Complex Systems Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16901>

Funding for research addressing multiscale mathematics and optimization for complex natural and engineered systems. Awards for this solicitation will be made in two categories: 1) Multiscale Mathematics for Complex Systems, and 2) Optimization of Complex Systems. Areas of focus within these categories include the development of: "Mathematical tools needed for the modeling, analysis, and simulation of multiscale phenomena, including those associated with complex multiphysics systems or hybrid discrete-continuum models." Techniques for formulating, analyzing and solving challenging optimization problems arising in complex natural and engineered systems. Additional areas of interest in both categories include sensitivity analysis, risk analysis, and the quantification and mitigation of uncertainty.

- Research Opportunities at Rare Isotope Beam Facilities Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16868>

The Office of Nuclear Physics (NP), Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving preapplications for developing outstanding scientific opportunities in nuclear structure and dynamics, nuclear astro-physics, and tests of fundamental interactions and symmetries at leading rare isotope beam (RIB) facilities around the world.

DOE: National Energy Technology Laboratory

- Area of Interest 1 – MEMBRANES
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16859>

Membrane-based capture uses permeable or semi-permeable materials that allow for the selective transport/separation of CO₂ from flue gas. Key technical challenges to the use of membranes to capture CO₂ from coal-fired power plant flue gas include: (1) large flue gas volume; (2) relatively low CO₂ concentration (less than 15% by volume); (3) low flue gas pressure (i.e., driving force); (4) flue gas contaminants (e.g., SO₂, trace elements, uncollected fly ash); and (5) the need for high membrane surface area.

- Area of Interest 2 – SOLVENTS
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16860>

Solvent-based systems, typically using amines, are in commercial use in scrubbing CO₂ from industrial flue gases and process gases. However, they

have not been applied to removing large volumes of CO₂ as would be encountered in a PC-fired utility boiler flue gas. Key technical challenges to solvent based systems for capturing CO₂ from coal-fired power plants include: (1) large flue gas volume; (2) relatively low CO₂ concentration; (3) flue gas contaminants; and (4) high parasitic power demand for solvent recovery.

- Area of Interest 3 - SOLID SORBENTS
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16861>

Solid particles can be used to capture CO₂ from flue gas through chemical absorption, physical adsorption, or a combination of the two effects. Possible configurations for contacting the flue gas with the solid particles include fixed, moving, and fluidized beds. Key technical challenges to sorbent based systems for capturing CO₂ from coal-fired power plants include: (1) large flue gas volume; (2) relatively low CO₂ concentration; (3) flue gas contaminants; and (4) high parasitic power demand for sorbent recovery.
- Area of Interest 4 - OXY-COMBUSTION SYSTEM DEVELOPMENT
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16862>

OXY-COMBUSTION SYSTEM DEVELOPMENT While the key technical components of oxy-combustion systems are commercially available, an integrated commercially operated oxy-combustion power plant has yet to be demonstrated. To support the development of this technology several technical hurdles exist. Research is required to optimize oxy-combustion burners so that flue gas recirculation is minimized and boiler efficiency is maximized. Corrosion characteristics of existing boiler materials under conditions created due to flue gas recycle need to be determined.
- Area of Interest 5 - FLUE GAS PURIFICATION
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16863>

Oxy-combustion systems produce a flue gas that has a high CO₂ concentration but may also includes water, excess O₂, N₂, SO_x, NO_x, Hg, and other contaminants. Depending on transportation and sequestration requirements, the levels of these compounds present in the flue gas may need to be reduced to acceptable levels.
- Area of Interest 6 - OXY-COMBUSTION BOILER DEVELOPMENT
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16864>

The characteristics of oxy-combustion as compared to air fired combustion have not yet been fully developed. Applications addressing laboratory and bench scale research into oxy-combustion boiler characteristics and innovative oxy-burner design are of interest. Oxy-combustion flame characteristics, burner and coal feed design, and analyses of the interaction of oxy-combustion products with boiler materials are all areas of research sought for coal based combustion systems.
- Area of Interest 7 - CHEMICAL LOOPING COMBUSTION
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16865>

Chemical looping involves the use of a solid O₂ carrier particle in the combustion of fuels. The O₂ carrier particle is oxidized in one reactor and is used to combust the fuel in another reactor. This funding opportunity announcement is interested in developing systems and O₂ carriers for use in chemical looping combustion of coal. Key issues for chemical looping combustion of coal include solids handling along with O₂ carrier capacity, reactivity, and chemical and/or physical attrition resistance.

Department of Health and Human Services (HHS)

Administration for Children and Families

- Administration for Children and Families Abandoned Infants Assistance: Comprehensive Support Services for Families Affected by Substance Abuse and/or HIV/AIDS Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16961>

Centers for Disease Control and Prevention (CDC)

- MD STARnet: Expanding Surveillance and Epidemiologic Research for Duchenne and Becker Muscular Dystrophy (U01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16927>

The intent of this FOA is to build upon PA02172 and RFA-DD-06-002. NCBDDD plans to use FY08 funds to add two additional sites or contiguous geographic areas to the MD STARnet system in order to more adequately approximate the national racial and ethnic demographic profile. Specifically, Black/African Americans and Asian American/Pacific Islanders are under-represented in the current study population.

- Elimination of Health Disparities through Translation Research (R18) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=17023>

This funding opportunity announcement (FOA) encourages applicants to submit research grant applications that accelerate the translation of research findings into public health practice through implementation, dissemination, and diffusion research within health disparity populations.

- Grants for Injury Control Research Centers(R49) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16978>

The purposes of this announcement are to 1) solicit applications from new or existing injury centers to conduct injury and violence prevention research, 2) build the scientific base for the prevention and control of injuries and violence, 3) integrate professionals from a wide spectrum of disciplines to perform injury and violence prevention research, 4) encourage research that involves intervention development and testing and intervention adoption and maintenance methods.

- Physical Activity for People with Disabilities Information Resource Center Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16970>

The purpose of this announcement is to fund a program which will operate a National Information and Resource Center on Physical Activity for Persons with Disabilities. The mission of the center will be to provide information, technical assistance, and consultation on physical activity, exercise, and health promotion practices targeting persons with disabilities, caregivers, media, researchers, disability service organizations, community groups, service providers, policymakers and the public. It includes addressing the prevention of secondary conditions in persons who have a disability by promoting and assessing the benefits of physical activity and exercise, reducing the risk for associated adverse health, promoting environmental and policy access to physical activity and recreational facilities and services. This program addresses the "Healthy People 2010" focus area(s) of Disability and Secondary Conditions and Physical Activity and Fitness.

- Spina Bifida Patient Registry Demonstration Project (U01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16925>

This FOA will support spina bifida clinics in the United States to test the feasibility of utilizing a standardized registry tool for collecting data on patients

with spina bifida. The initial collection and entry of patient data into a central data repository constitutes an essential step in the development of a national spina bifida registry. It is anticipated that the establishment of a national Spina Bifida Patient Registry will result in improved quality of care for patients with spina bifida and identify areas for future research.

National Institutes of Health (NIH)

- Advanced Centers for Intervention and/or Services Research (ACISR) (P30) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16764>

To support core infrastructure for conducting intervention and/or services research directly addressing the mission of NIMH, which is to reduce the burden of mental and behavioral disorders through research on mind, brain, and behavior. In particular, this initiative addresses the mission of the NIMH Division of Services and Intervention Research (DSIR), as well as that of the NIMH Geriatrics Research Branch. The DSIR supports two main areas of research: a) intervention research to evaluate the effectiveness of pharmacologic, psychosocial, somatic, rehabilitative and combination treatment or preventive interventions on mental and behavior disorders, and b) mental health services research that consists of interdisciplinary investigations of the predictors, processes and outcomes of mental health services, including availability, access and acceptability; organization; decision-making; service delivery, utilization and quality of care; costs, cost-effectiveness and financing of mental health care, and the dissemination and implementation of effective interventions into service systems. The Geriatrics Research Branch supports intervention research relevant to older adults.

- Cooperative Centers for Translational Research on Human Immunology and Biodefense (U19) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=17007>

The NIAID invites new or competing renewal applications from institutions with multi-disciplinary investigator teams to participate in the Cooperative Centers for Translational Research on Human Immunology and Biodefense (CCHI) program. The goal of this Funding Opportunity Announcement (FOA) is to support research on human immunology as it applies to potential agents of bioterrorism or emerging/re-emerging infectious diseases. The immediate objectives are to support basic and translational research on human immunological responses to NIAID Category A, B, or C Priority Pathogens, their toxins, or other emerging and re-emerging diseases (<http://www3.niaid.nih.gov/research/topics/emerging/list.htm>); and to create the stable, flexible, and centralized infrastructure needed to promote and coordinate multi-disciplinary research in human immunology as it relates to defense against these agents.

- Cooperative Research Partnerships for Biodefense and Emerging Infectious Diseases (U01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16914>

To support development of vaccines, vaccine technologies, therapeutics, immunotherapeutics, adjuvants and medical diagnostics for NIAID Category A, B, and C priority pathogens and toxins (<http://www.niaid.nih.gov/biodefense/PDF/cat.pdf>).

- Data Management and Coordinating Center (DMCC) for the Rare Diseases Clinical Research Network (U54) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16832>

The NIH ORD and NINDS invite new and renewal cooperative agreement applications to continue the Data Management and Coordinating Center for the Rare Diseases Clinical Research Network (RDCRN). The Network has two main

components: Rare Diseases Clinical Research Consortia (RDCRCs) and a Data Management and Coordinating Center (DMCC) (formerly known as Data Technology Coordinating Center, DTCC).

- Developing Centers for Intervention and/or Services Research (DCISR) (P20) Grant <http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16763>

The National Institute of Mental Health (NIMH) invites research grant applications to support core infrastructure for conducting intervention and/or services research directly addressing the mission of NIMH, which is to reduce the burden of mental and behavioral disorders through research on mind, brain, and behavior. In particular, this initiative addresses the mission of the Division of Services and Intervention Research (DSIR), as well as that of the NIMH Geriatrics Research Branch.

- Extramural Associates Research Development Award (EARDA) (G11) Grant <http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=17003>

This Funding Opportunity Announcement (FOA) invites applications for the Extramural Associates Research Development Award (EARDA). The EARDA is designed to facilitate the development or strengthening of the research administration infrastructure and build capacity (i.e. the ability of individuals and organizations to perform effectively, efficiently, and in a sustainable manner) in research administration in domestic women's colleges and public or private four year or two year institutions with a traditionally significant to high ethnic minority student enrollment (42 CFR 52c.3) and which offers undergraduate, graduate or professional degrees. The overall goal is to enable institutions to provide support for the technical development of research grant proposals, to provide thorough oversight and the administrative management of grant awards, and to foster and facilitate ongoing research activities at the institution.

- Health Behavior Change in People with Mental Disorders (R01) Grant <http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16762>

The National Institute of Mental Health (NIMH) encourages studies on health behavior change related to function, disability, morbidity, and mortality in people with mental disorders. An important goal of this Funding Opportunity Announcement (FOA) is to identify potent, modifiable risk and protective health behavior factors amenable to intervention, and to translate the results of such studies into initial tests of theory-driven prevention and early intervention strategies aimed at improving function and decreasing disability, morbidity, and mortality among people with mental disorders. Risk and protective factors include biological, psychosocial, behavioral, and environmental contributors to health behaviors among people with mental disorders. It is incumbent upon the applicant to demonstrate the public health significance of the study by describing the severity and/or prevalence of the health behaviors, disability, morbidity, or mortality of the populations represented in the topics studied.

- Innovations in Lower Limb Protheses Attachment (R01) Grant <http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16953>

This Funding Opportunity Announcement (FOA) issued by The Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health, solicits Research Project Grants (R01) applications from institutions/organizations that propose to develop advanced methodologies to enhance soft tissue integration and to eliminate infection for lower limb prostheses in direct skeletal attachment.

- International Research on Venue-Based Interventions for HIV/AIDS and Alcohol Use: (R01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16954>
 ; (R21) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16955>

This funding opportunity announcement (FOA) issued by the National Institute on Alcohol Abuse and Alcoholism, National Institutes of Health solicits Research Project (R01) grant applications from applicant organizations that propose to conduct collaborative international research on alcohol abuse and HIV/AIDS, with a specific focus on research that examines the impact of environmental factors on concurrent drinking and high risk sexual behavior.

- Limited Competition for Data Deposition and Analyses of Genome Wide Association Studies of Mental Disorders: (R01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16985>
 ; (Collaborative R01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16986>

The National Institute of Mental Health (NIMH) announces a limited competition for applications that propose to deposit data (genotypes and phenotypes) into an NIH Repository to augment existing resources and to analyze combined Genome Wide Association Studies (GWAS) of Mental Disorders of interest to the NIMH.

- Mental Health Dissertation Research Grant To Increase Diversity (R36)
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=8322>

The purpose of this funding opportunity is to increase the diversity of the mental health research workforce. It will enable qualified doctoral candidates to pursue research careers in any area relevant to the research mission of the National Institute of Mental Health (NIMH).

- Metagenomic Analyses of the Oral Microbiome (R01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16782>

This Funding Opportunity Announcement (FOA) issued by the National Institute of Dental and Craniofacial Research (NIDCR), National Institutes of Health (NIH), solicits proposals to develop new insight into the role of microbes in human oral health and disease through research on the total oral microbial community (microbiota) using metagenomic approaches built upon recent developments in DNA sequencing, gene assembly, and bioinformatics. The ultimate goal is to completely characterize all microbes and their genes (microbiome) in the oral environment. To this end, we are soliciting projects that will analyze the genomes of both cultivatable and uncultivable bacteria, archaea, viruses, fungi, and parasites. Applicants will be expected to work with state-of-the-science genomic sequencing centers and bioinformatics groups to sequence and annotate all microbes in the oral cavity under conditions of health and disease.

- Methods for Prevention Packages Program (MP3) (R01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16916>

The National Institute of Allergy and Infectious Diseases and the National Institute of Mental Health invite applications for multidisciplinary research programs that (1) devise optimal HIV prevention packages (combination interventions) for specific populations, (2) design clinical studies to rigorously examine the safety and efficacy of these packages in the target population, and (3) perform pilot studies to demonstrate that the proposed prevention package is acceptable to the target population and the study design is appropriate and feasible.

- National Institute of Mental Health (NIMH) Career Opportunities in Research (COR) Honors Undergraduate Research Training Grant (T34) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16827>

The National Institute of Mental Health (NIMH) announces its support of the NIMH Career Opportunities in Research (NIMH COR) Honors Undergraduate Research Training Grant (T34) program. The goal of the program is to provide support for pre-baccalaureate research training to help ensure that a diverse and highly trained workforce is available to assume leadership roles related to the Nation's biomedical, neuroscience, behavioral and clinical research agenda for mental health. The specific objectives are to: (a) increase the number of well-prepared undergraduate students from diverse backgrounds who complete a research training program leading to a research doctorate (Ph.D., M.D./Ph.D. or equivalent) in biomedical, neuroscience, behavioral, or clinical sciences relevant to mental health research; and (b) develop and strengthen the undergraduate research training curricula with relevance to mental health.

- NIDA Comprehensive Research Center of Excellence Grant Program (P60) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16731>

This FOA is to provide support for research centers that conduct drug abuse and addiction research that have outstanding innovative science and that are multidisciplinary, thematically integrated, synergistic, and are/will be serving as national resource(s) for the NIDA research fields. There should be evidence that the presence of a center structure is essential for the accomplishment of the research activities. It is expected that a Center will transform knowledge in the sciences it is studying. Incremental work should not be the focus of Center activities; rather, new and creative directions are required. Research may occur in any area of NIDA's mission. Each separate project should bear an essential relationship to the integrating theme.

- Novel Approaches to Study Polymicrobial Diseases: (R01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16786>
; (R21) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16788>

This Funding Opportunity Announcement (FOA) issued by the National Institute of Dental and Craniofacial Research (NIDCR), the National Heart, Lung, and Blood Institute (NHLBI), and the National Institute on Deafness and Other Communication Disorders (NIDCD), National Institutes of Health (NIH), solicits research grant applications to conduct studies designed to develop innovative approaches that would contribute to our understanding of the mechanisms that impact on the virulence of infections involving two or more microorganisms or strains of microorganisms (with the exception of HIV).

- Rare Diseases Clinical Research Consortia (RDCRC) for the Rare Diseases Clinical Research Network (U54) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16831>

The NIH ORD, NIAMS, NIDDK, NICHD, NINDS, NIA, NIAAA, NCI, NIDCR and NHLBI invite new and renewal cooperative agreement applications to continue the Rare Diseases Clinical Research Network (RDCRN). The Network has two main components: Rare Diseases Clinical Research Consortia (RDCRC) and a Data Management and Coordinating Center (DMCC) (formerly known as Data Technology Coordinating Center, DTCC). The purpose of this Funding Opportunity Announcement (FOA) is to invite new and renewal cooperative agreement applications for RDCRCs that individually focus on a subset of related rare diseases. A separate FOA has been published to invite new and renewal cooperative agreement applications for DMCC at <http://grants.nih.gov/grants/guide/rfa-files/RFA-OD-08-002.html>. -The purpose of the Network is to facilitate clinical research in rare diseases through

support for 1) collaborative clinical research in rare diseases, including longitudinal studies of individuals with rare diseases, clinical studies and/or phase I , II and II/III trials; 2) training of clinical investigators in rare diseases research; 3) pilot and demonstration projects 4) a test bed for distributed clinical data management that incorporates novel approaches and technologies for data management, data mining, and data sharing across rare diseases, data types, and platforms; and 5) access to information related to rare diseases for basic and clinical researchers, academic and practicing physicians, patients, and the lay public.

- The Effect of Racial and Ethnic Discrimination/Bias on Health Care Delivery: (R01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16721>
; (R21) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16722>
; (R03) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16723>

This Funding Opportunity Announcement (FOA) issued by National Cancer Institute, National Institutes of Health, encourages the submission of research project grant applications from institutions/ organizations that propose to: (1) improve the measurement of racial /ethnic discrimination in health care delivery systems through improved instrumentation, data collection, and statistical/analytical techniques; (2) to enhance understanding of the influence of racial/ethnic discrimination in health care delivery and its association with disparities in disease incidence, treatment, and outcomes among disadvantaged racial/ethnic minority groups; and (3) to reduce the prevalence of racial/ethnic health disparities through the development of interventions to reduce the influence of racial/ethnic discrimination on health care delivery systems in the United States (U.S.).

- Tumor Stem Cells in Cancer Biology, Prevention, and Therapy (R01) Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16923>

The objective of this Funding Opportunity Announcement (FOA) is to stimulate research in the area of tumor stem cell biology including characterization of tumor stem cell markers, and to identify of specific genetic and functional signatures of tumor stem cells. The goal is the translation of basic research findings into clinical practice in the context of both hematological and solid tumor malignancies. Therefore, applications submitted in response to this FOA must involve appropriate and substantive collaborative arrangements between basic and translational researchers providing, respectively, expertise in the biology of tumor stem cells and in translation of basic research findings into clinical practice. To facilitate substantive collaborations, applicants are encouraged to take advantage of the multiple Principal Investigators option.

Substance Abuse & Mental Health Services Administration (SAMHSA)

- Technical Assistance Center for Mental Health Promotion and Youth Violence Prevention Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16951>

The purpose of this program is to support the federally funded Safe Schools/Healthy Students (SS/HS) grant program and Linking Actions for Unmet Needs in Children's Health (Project Launch) grant programs. The Safe Schools/Healthy Students grant program provides funds to local educational agencies to plan, implement, evaluate and sustain a comprehensive plan of programs, activities, services and curricula to foster resilience, promote mental health, prevent substance abuse, youth violence and mental and behavioral disorders. The SS/HS program is grounded in the belief that people's lives can be enhanced through effective interventions that foster well-

being and resilience at the individual, family and community levels. Structurally, the SS/HS program brings together representatives from many diverse stakeholder groups seeking cooperation from an array of public health, mental health, education, law enforcement, justice and social service systems, as well as families and youth, to work towards the mutual goals of promoting safety, well being, and healthy development. Project Launch grant program supports a vision of communities in which families participate in a seamless set of local programs, supports and services that promote healthy early childhood development, supportive family environments. The Project Launch grant program will provide funds to localities through State agencies in order to plan for and implementing a range of prevention activities that include: (1) the development of a comprehensive plan to integrate behavioral and physical health; (2) integration of early childhood systems of care to blend services and supports from health, mental health, substance abuse, education, and social services; and (3) development of community based networks for preventative and primary care that coordinates and integrates behavioral and physical health service delivery. Successful grantees must build integrated and comprehensive health/mental and behavioral health/substance use prevention and promotion programs, practices and services. Grantees must be able to demonstrate a partnership between local mental health, primary health care, substance abuse prevention, social services and early childhood/elementary educational systems. These partnerships and plans must be developed and agreed upon by local partners in keeping with existing State plans. The TA Center will provide an array of technical assistance services that will improve the effectiveness, efficiency, and sustainability of projects in both grant programs.

Department of Justice (USDOJ)

- Evidence Based Decision Making for Local Criminal Justice Systems
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40719>

The National Institute of Corrections (NIC) is soliciting proposals from organizations, groups or individuals who would like to enter into a cooperative agreement with NIC for the eighteen month development phase of a new initiative, "Evidence Based Decision Making for Local Criminal Justice Systems" (justice systems). The overall goal of the initiative is to establish and test articulated linkages (information tools and protocols) between local criminal justice decisions and the application of human and organizational change principles (evidence based practices) to achieve measurable reduction of pretrial misconduct and post-conviction risk of re-offending. The unique focus of the initiative is locally developed strategies of criminal justice officials (defined in the full announcement) that guide practice within existing sentencing statutes and rules.
- NIJ FY 08 Criminal Justice Technology Evaluation Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16768>

NIJ solicits applications to inform its search for the knowledge and tools to guide policy and practice. NIJ seeks evaluations of technologies designed to prevent and reduce crime and improve the functioning of the criminal justice system. NIJ is specifically interested in evaluations that determine if the application of existing or newly developed technologies works to improve outcomes. Evaluations should focus on technologies that are fully functional and readily applicable in operational settings. Additionally, outcome evaluations must have well-defined, measurable indicators of success; applications that focus on the measurable impact of technologies on reduction in crime will be given priority. Additional outcome measures may include better monitoring, tracking, or identification and apprehension of criminal

suspects; effective tracking and recovery of stolen property; reduced criminal opportunities; and reduced injuries to officers, suspects, and/or bystanders.

Department of State (DOS)

Bureau of Educational and Cultural Affairs

- Community College Initiative for Egypt Grant
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40630>

The Bureau of Educational and Cultural Affairs (ECA) announces an open competition for one or more assistance awards to administer the Community College Initiative for Egypt, which will support study by Egyptian undergraduate students at accredited U.S. community colleges. The multi-year program will bring a total of 1,000 students to U.S. community colleges from Egypt. The Initiative builds on the Community College Initiative announced at the U.S. University Presidents Summit on International Education, convened by the Secretary of State and the Secretary of Education in January 2006.

- Summer Institute for European Student Leaders Grant
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40666>

The Office of Academic Exchange Programs, European and Eurasian Programs Branch (ECA/A/E/EUR) announces an open competition for a five-week Summer Institute for European Student Leaders. Accredited, post-secondary educational institutions in the United States may submit proposals to administer the program. The Summer Institute for European Student Leaders will offer a group of twenty young Europeans from a broad range of ethnic, religious and socio-economic backgrounds the opportunity to learn about the United States and build leadership skills during a five-week program on an American campus. The Fulbright Commissions in Denmark, France, the Netherlands, Norway, Portugal, Spain, Sweden, and the United Kingdom will recruit participants who are first- or second-year undergraduate students or recent high school graduates who will enter university in fall 2008. The goals of the Institute are to promote study and learning about the United States, leadership development, and civic engagement through academic coursework and participatory activities that will serve the participants in their academic and professional careers and to promote mutual understanding between the United States and their home countries. ECA anticipates that program dates will be for the approximate period of July 13 - August 16, 2008.

Department of Transportation (DOT)

- Collision Safety Improvement for Light Rail Vehicles Operating in Shared Right of Way Street Environments Grant
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40717>

The Federal Transit Administration (FTA) requests proposals from public entities that will ultimately result in the award of one or more cooperative agreements to identify and develop innovative structural or CEM designs and associated technologies that can be retrofitted into existing LRVs such that in the event of a collision, injuries to pedestrians and passengers of street vehicles are minimized and the potential for LRV derailment in such a collision is reduced.

Environmental Protection Agency (EPA)

- Consequences of Global Change for Water Quality Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16848>

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research to better understand the effect of global change on U.S. water quality.

- Early Career Projects: Consequences of Global Change for Water Quality Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16849>

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research to better understand the effect of global change on U.S. water quality.

- FY 2008 Assessment and Watershed Protection Program Grants (AWPPGs) Grant
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40880>

The U.S. EPA is accepting proposals from eligible applicants under two National Priorities: (1) Watershed/Total Maximum Daily Load (TMDL) National Priority and (2) Nonpoint Source National Priority. The Watershed/TMDL National Priority focuses on projects that advance the science of TMDL development and watershed management through the provision of technical training/information transfer, and enhancement of TMDL production efficiencies. The specific project topic areas under the Watershed/TMDL National Priority include: Assessment and TMDL Workshops; Tools, Incentives, and Products Training for the Watershed Approach; and Tools, Incentives, and Trainings that Foster the Financing of Water Quality Protection and/or Habitat Restoration/Protection Activities on a Watershed Scale. The Nonpoint Source National Priority focuses on enhancing lake water quality through innovative outreach projects, educational materials, curriculum design, and awareness programs. The specific project topic area under the Nonpoint Source National Priority is Technical Support, Conferences, and/or Workshops to Promote Clean Lakes.

- National Community-Based Lead Outreach and Training Grant Program: Request for Proposals FY 2008 Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16899>

The U.S. Environmental Protection Agency (EPA) is soliciting grant proposals from eligible entities to reduce incidences of childhood lead poisoning in low-income communities with older housing. Potential activities include outreach, training, ordinance development, and other activities that would result in reduction of childhood lead poisoning. This grant will support the partnership of national organizations with community-based organizations and local governments to improve the environmental health of a community regarding lead poisoning prevention.

National Endowment for the Humanities (NEH)

- Challenge Grants
<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40706>

NEH challenge grants help institutions and organizations secure long-term improvements in and support for their humanities programs and resources. Awards are made to museums, public libraries, colleges, research institutions, historical societies and historic sites, public television and radio stations, universities, scholarly associations, state humanities councils, and other nonprofit entities. Because of the matching requirements, these NEH awards also strengthen the humanities by encouraging nonfederal sources of support. Both federal and nonfederal funds must provide long-term benefits to the humanities. Challenge grant funds should not merely replace funds already being expended on the humanities, but instead should reflect careful strategic planning to strengthen and enhance the institution's activities in and commitment to the humanities. Activities supported Challenge grants most commonly augment or establish endowments that support humanities activities in education, public programming, scholarly research, and preservation. Institutions may use the income from invested funds to meet ongoing humanities-related costs. Examples include: faculty and staff positions, fellowships, lecture or exhibition series, visiting scholars or

consultants, publishing subventions, maintenance of facilities, faculty and staff development, acquisitions, and preservation or conservation programs.

- Faculty Research Awards Grant

<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40863>

Faculty Research Awards support individuals pursuing advanced research that is of value to scholars and general audiences in the humanities. Recipients usually produce articles, monographs, books, digital materials, archaeological site reports, translations, editions, and other scholarly tools. Faculty Research Awards support research in the humanities by faculty members at Historically Black and Tribal Colleges and Universities and Institutions with High Hispanic Enrollment. The awards support the equivalent of six to twelve months of full-time work. Faculty Research Awards may not be used for: curricular or pedagogical methods, theories, or surveys; preparation or revision of textbooks; projects that seek to promote a particular political, philosophical, religious, or ideological point of view; projects that advocate a particular program of social action; or works in the creative and performing arts, e.g., painting, writing fiction or poetry, dance performance, etc.

- Fellowships for Advanced Social Science Research on Japan Grant

<http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40864>

The Fellowship Program for Advanced Social Science Research on Japan is a joint activity of the Japan-U.S. Friendship Commission (JUSFC) and the National Endowment for the Humanities. Awards support research on modern Japanese society and political economy, Japan's international relations, and U.S.-Japan relations. The program encourages innovative research that puts these subjects in wider regional and global contexts and is comparative and contemporary in nature. Research should contribute to scholarly knowledge or to the general public's understanding of issues of concern to Japan and the United States. Disciplines include: anthropology, economics, geography, history, international relations, linguistics, political science, psychology, public administration, and sociology. The fellowships are designed for researchers with advanced language skills whose research will require use of data, sources, and documents in their original languages or whose research requires interviews onsite in direct one-on-one contact. Fellows may undertake their projects in Japan, the United States, or both, and may include work in other countries for comparative purposes. Awards usually result in articles, monographs, books, digital materials, archaeological site reports, translations, editions, or other scholarly tools. As tax-supported federal agencies, the JUSFC and NEH endeavor to make grant products available to the broadest possible audience. Our goal is for scholars, educators, students, and the American public to have ready and easy access to the wide range of grant products. For projects that lead to the development of Web sites, all other considerations being equal, preference is given to those that provide free access to the public.

- Fellowships <http://www07.grants.gov/search/search.do?mode=VIEW&oppId=40862>

NEH Fellowships support individuals pursuing advanced research that is of value to scholars and general audiences in the humanities. Recipients usually produce articles, monographs, books, digital materials, archaeological site reports, translations, editions, and other scholarly tools. Fellowships support continuous full-time work for a period of six to twelve months. NEH Fellowships may not be used for: curricular or pedagogical methods, theories, or surveys; preparation or revision of textbooks; projects that seek to promote a particular political, philosophical, religious, or ideological point of view; projects that advocate a particular program of social action; works in the creative and performing arts, e.g., painting, writing fiction or poetry, dance performance, etc.; or doctoral dissertations or theses.

National Science Foundation (NSF)

- CubeSat-based Science Missions for Space Weather and Atmospheric Research Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16999>

Lack of essential observations from space is currently a major limiting factor in space weather research. Recent advances in sensor and spacecraft technologies make it feasible to obtain key measurements from low-cost, small satellite missions. A particularly promising aspect of this development is the prospect for obtaining multi-point observations in space that are critical for addressing many outstanding problems in space science. Space-based measurements from small satellites also have great potential to advance discovery and understanding in other areas of atmospheric sciences. To take full advantage of these developments, NSF is soliciting research proposals centered on small satellite missions. The overarching goal of the program is to support the development, construction, launch, operation, and data analysis of small satellite science missions to advance space weather and atmospheric research. Equally important, it will provide essential opportunities to train the next generation of experimental space scientists and aerospace engineers. To facilitate launch of the satellites as secondary payloads on existing missions, the focus of the program is on CubeSat-based satellites. Launch of the satellites will be through the standardized CubeSat deployment system, the Poly Picosatellite Orbital Deployer (P-POD). Launch of the P-PODS will be as auxiliary payloads on DOD, NASA, or commercial launches. This will be arranged directly by NSF and is not part of this solicitation. Beginning in 2009, NSF expects to launch two to four P-PODs every year, accommodating at least as many (three to six) individual satellite missions. This solicitation covers proposals for science missions to include satellite development, construction, testing and operation as well as data distribution and scientific analysis.

- Developmental and Learning Sciences
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=11238>

This program supports studies that increase our understanding of cognitive, linguistic, social, cultural, and biological processes related to children's and adolescents' development and learning. Additional priorities are to support developmental research that: incorporates multidisciplinary, multi-method, microgenetic, and longitudinal approaches; develops new methods and theories; examines transfer of knowledge from one domain to another and from one situation to another; assesses peer relations, family interactions, social identities, and motivation; examines the impact of family, school, and community resources; assesses adolescents' preparation for entry into the workforce; and investigates the role of demographic characteristics and cultural influences on children's development. Research supported by this program will add to our basic knowledge of how people learn and the underlying developmental processes that support learning, with the objective of leading to better educated children and adolescents who grow up to take productive roles as workers and as citizens.

- Developmental Systems
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=12542>

The Developmental Systems Cluster supports research aimed at understanding how interacting developmental processes give rise to the emergent properties of organisms. A systems level approach to understanding these processes, at the molecular, cellular, and organismal levels of organization, requires the use of molecular, genetic, biochemical, and physiological techniques as well as techniques from outside biology. The Developmental Systems Cluster is also particularly interested in understanding how emergent properties result in the development of complex phenotypes and lead to the evolution of developmental mechanisms. Plant, Fungal and Microbial Developmental Systems-The Plant, Fungal and Microbial Development programmatic area

supports research that addresses developmental processes in plants from algae to angiosperms, microbes and fungi. Animal Developmental Systems-Animal Developmental Systems programmatic area supports research that seeks to understand the processes that result in the complex phenotype of animals. Because different organisms may be more amenable to certain approaches than others, analyses of development in a wide range of different species are encouraged. Evolution of Developmental Systems-The Evolution of Developmental Systems programmatic area supports research to discover the developmental processes shared by all organisms and those singular ones that produce diversity (phenotypic variation within a species and/or between species). What developmental changes have given rise to new phenotypes? How are gene networks modified to generate different phenotypic outcomes? To answer these and other evolutionary questions will likely require interdisciplinary and collaborative approaches using a wide range of model systems.

- Electronics, Photonics and Device Technologies (EPDT)
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=7634>

The Electronics, Photonics and Device Technologies (EPDT) program seeks to improve the fundamental understanding of devices and components based on the principles of electronics, photonics, magnetics, organics, electro-optics, electromechanics, and related physical phenomena. The program invests in advancing the frontiers of spin electronics, molecular electronics, bioelectronics, silicon nanoelectronics and beyond, nonsilicon electronics, flexible electronics, optoelectronics, microwave photonics, MEMS/NEMS, power electronics, and mixed signal devices. EPDT further supports related topics in quantum engineering and novel electromagnetic materials-based device solutions, RF integrated circuits, and reconfigurable antennas needed for telecommunications, telemedicine, and other wireless applications. ECCS will continue its support of tools for manipulation and measurement with nanoscale precision. Areas of interest include: * Bioelectronics * Flexible Electronics * MEMS/NEMS * Micromagnetics * Microelectronics * Microwave Photonics * Molecular Electronics * Nano-Electronics/Photonics/Magnetics * Optoelectronics * Power Electronics * Sensors and Actuators * Spin Electronics ECCS will provide additional emphasis on emerging areas such as: * Diagnostic and Implantable Devices

- Environmental Sustainability
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=14831>

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- Geobiology and Low-Temperature Geochemistry
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=9047>

The Geobiology and Low-Temperature Geochemistry Program supports research on 1) the interactions between biological and geological systems at all scales of space and time; 2) geomicrobiology and biomineralization processes; 3) the role of life in the evolution of the Earth's system; 4) inorganic and organic geochemical processes occurring at or near the Earth's surface now and in the past, and at the broad spectrum of interfaces ranging in scale from planetary and regional to mineral-surface and supramolecular; 5) mineralogy and chemistry of soils and sediments; 6) surficial chemical and biogeochemical systems and cycles and their modification through natural and anthropogenic change; and 7) development of tools, methods, and models for low-temperature geochemistry and geobiological research. The Geobiology and Low-Temperature Geochemistry Program facilitates cross-disciplinary efforts to harness new bioanalytical tools – such as those emerging from molecular biology – in the study of the terrestrial environment.
- Geomorphology and Land Use Dynamics
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=9048>

Geomorphology and Land-Use Dynamics supports innovative research into processes that shape and modify landscapes over a variety of length and time scales. The program encourages research that investigates quantitatively the coupling and feedback between such processes, their rates, and their relative roles, especially in the contexts of variation in climatic and tectonic forcings and in light of changes due to human impact.
- Informal Science Education Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16902>

The 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. 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.
- Innovations in Engineering Education, Curriculum and Infrastructure Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16682>

The Innovations in Engineering Education, Curriculum, and Infrastructure (IEECI) program supports research which addresses three basic issues related to engineering education: (1) how students best learn the ideas, principles, and practices to become creative and innovative engineers, and how this learning is measured; and (2) research that helps the community understand how to better attract a more talented and diverse student body, in particular U.S. citizens and permanent residents, to all levels of engineering study. This would also include research to understand how to increase student interest in engineering by leveraging partnerships among engineering schools, school districts and exemplary non-profit organizations to recruit and retain engineering students. Finally (3), this program will support projects to investigate potential models for the evaluation of and assessment of how successful teaching, advising, and mentoring leads to improved retention and graduation, and ultimately, to a sound business model for engineering education.

- Linguistics
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=10642>

Supports scientific research of all types that focus on human language as an object of investigation. The program supports research on the syntactic, semantic, phonetic, and phonological properties of individual languages and of language in general; the psychological processes involved in the use of language; the development of linguistic capacities in children; social and cultural factors in language use, variation, and change; the acoustics of speech and the physiological and psychological processes involved in the production and perception of speech; and the biological bases of language in the brain.

- Nanotechnology Undergraduate Education (NUE) in Engineering Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=16870>

This solicitation aims at introducing nanoscale science, engineering, and technology through a variety of interdisciplinary approaches into undergraduate engineering education. The focus of this year's competition is on nanoscale engineering education with relevance to devices and systems and/or on the societal, ethical, economic and/or environmental issues relevant to nanotechnology. Related funding opportunities are posted on www.nsf.gov/nano. Research and education projects in nanoscale science and engineering will continue to be supported in the relevant NSF programs and divisions.

- Neural Systems
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=12545>

The Neural Systems Cluster focuses on how complex functions emerge from the interactions of the cellular elements of the nervous system as well as the interactions of the nervous system with other physiological systems. The Cluster encourages a systems biology approach to understanding how the nervous system adapts and regulates its function and structure in response to the internal or external environment. These questions may be investigated at time scales from the physiological to the evolutionary and at levels of complexity from the molecular biology of the cell to complex behavior. The development and use of new theoretical approaches and computational models to guide and instruct experimental design are particularly encouraged.

Behavioral Neuroscience - Focuses on the development, function and evolution of neural mechanisms underlying complex behavior in animals. Neuroplasticity, learning and memory, communication, and biological rhythms are among the many topics that are examined in an extensive range of vertebrate and invertebrate systems. Levels of analysis span molecular biological approaches, cellular signaling, neuroanatomic mapping and analyses of animals behaving in their natural environments. Cellular and Developmental Neuroscience Panel - Focuses on the interactions among neurons and glia during development, regeneration, and aging. Current studies include aspects of axonal navigation and cell migration, neuronal differentiation, neuron-glia interactions, synaptic specificity, and neuron connectivity. These studies typically draw from a wide range of methodologies, including genetic, molecular, cellular, anatomical, and electrophysiological techniques, to support analyses that span several levels of complexity and time scales from the physiological to the evolutionary. Computational Neuroscience - Supports research on the computational functions of neurons, neural circuits and nervous systems. This activity encourages development and testing of mathematical and/or computer models of neural systems, and the study of model neural systems including both vertebrates and invertebrates. The activity also welcomes theoretical approaches in all areas of neuroscience that develop innovative concepts. Neuroendocrinology - Focuses on the neuroendocrine regulation and evolution of brain/behavior relationships, and

the reciprocal relationships between environmental and behavioral impacts on the nervous system. Projects that focus on sexual differentiation, individual phenotypic variation, neuroimmunology and homeostasis, reproduction and social behavior, stress, and aging are encouraged. Integrative proposals in this area span multiple levels of analyses and complexity, from genes to behavior. Sensory Systems - Supports research on the mechanisms by which the nervous system acquires, encodes, and processes information about the environment. This includes research on neural processes at molecular, cellular, synaptic, systems, and behavioral levels, and psychophysical correlates of sensory neural processes. Topics include: sensory transduction, neural coding and integrative mechanisms, comparative aspects of sensory capabilities, including vision, hearing, touch, smell, equilibrium, and electrosensory, magnetic and other senses.

- Perception, Action & Cognition

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=10662>

Supports research on perception, action and cognition including the development of these capacities. Emphasis is on research strongly grounded in theory. Research topics include vision, audition, haptics, attention, memory, reasoning, written and spoken discourse, motor control, and developmental issues in all topic areas. The program encompasses a wide range of theoretical perspectives, such as symbolic computation, connectionism, ecological, nonlinear dynamics, and complex systems, and a variety of methodologies including both experimental studies and modeling. Research involving acquired or developmental deficits is appropriate if the results speak to basic issues of perception, action, and cognition.

- Physiological and Structural Systems

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=12548>

The Physiological and Structural Systems Cluster supports research aimed at furthering the understanding of organisms as integrated units of biological organization. The Cluster considers proposals focused on interacting physiological and structural systems, their environmental and evolutionary contexts, and how these components are constrained by their integration into the whole organism. Projects that use systems approaches to understand why particular patterns of architecture and regulatory control have emerged as general organismal properties are particularly encouraged. Understanding how and why emergent organismal properties such as robustness, adaptability and resilience arise in the context of environmental, genetic, biochemical and morphological variation are of interest. The Cluster encourages model building to augment traditional experimental approaches in order to guide research on complex functional networks. Multidisciplinary approaches to the study of organismal systems including research at the interfaces of biology, physics, chemistry, mathematics, computer science and engineering are encouraged in each of the following areas. Symbiosis, Defense and Self-recognition - This programmatic area supports research on the processes and structures that mediate intimate interactions between two or more organisms. Proposals are encouraged that focus on the dynamics of initiation, dissolution and stability of these complex associations through studies of underlying processes of communication, immunological recognition and signaling, feedbacks, and reciprocal responses between interactors. All aspects of symbiosis, including commensalisms, mutualisms, parasitism and host-pathogen interactions are included. Processes, Structures and Integrity - The focus of this programmatic area is on understanding the unity of organisms as complex systems through studies of coherent, structural and functional properties and interactions. Systems approaches that predict or reveal the nature of coordination among functional processes and/or structural components as a means to further the understanding of organismal integrity and emergent properties are particularly

encouraged. Organism-Environment Interactions - The focus of this programmatic area is on the structures and processes that affect organismal performance and interactions during routine changing, or stressful abiotic environmental conditions. The program seeks proposals aimed at understanding how interactions among genetic, biochemical, morphological and physiological processes result in integrated organismal responses. Increasing emphasis is placed on understanding how and why such interactions result in emergent properties such as adaptability, plasticity, and robustness (i.e., both resistance and resilience). Special emphasis is placed on projects that adopt systems approaches, including quantitative and qualitative analysis, theoretical models and prediction to understand the dynamics and control of organismal responses to the environment from near term to evolutionary time frames.

- Sedimentary Geology and Paleobiology
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=9049>

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

- Social Psychology
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=7632>

The Social Psychology Program at NSF supports basic research on human social behavior, including cultural differences and development over the life span. Among the many research topics supported are: attitude formation and change, social cognition, personality processes, interpersonal relations and group processes, the self, emotion, social comparison and social influence, and the psychophysiological and neurophysiological bases of social behavior. The scientific merit of a proposal depends on four important factors: (1) The problems investigated must be theoretically grounded. (2) The research should be based on empirical observation or be subject to empirical validation. (3) The research design must be appropriate to the questions asked. (4) The proposed research must advance basic understanding of social behavior.

- University Radio Observatories Program Grant
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16683>

The URO program provides support for operations, technical enhancements, scientific investigations, and student training at university-based radio facilities. A primary function of funded University Radio Observatories is to provide focused research environments that foster hands-on student access to state-of-the-art radio astronomy instrumentation. UROs also serve the general astronomical community by providing open access to 30% - 50% of available telescope time.