

Funding Bulletin

Funding Opportunities for Research, Instruction, Service, Creative Activities
Fellowships and International Programs

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Program Information

To receive program descriptions and application forms for funding opportunities, please contact Beverly Page, Information Specialist, Research and Sponsored Programs, phone: (785)532-5045, e-mail: bbpage@ksu.edu

GENERAL

48-1 General Forensics Research and Development (DOJ)

The National Institute of Justice (NIJ) seeks proposals in the form of white papers for research and development to enhance the methods crime laboratories use to examine evidence. The solicitation focuses on: faster, more reliable, more robust, less costly, or less labor-intensive tools for identification, collection, preservation, or analysis of crime scene evidence (Note: Special consideration will be given to the development of miniaturized or portable forensic testing devices.); tools that can increase the discriminatory power of forensic analyses or provide quantitative or statistical data that can increase the power of a match; identification or characterization of new analyses of forensic importance. White papers must target one of the following forensic disciplines: Controlled Substances, Toxicology, Trace Evidence, or Impression Evidences. DOJ-GRANTS-112403-005 (FG 11/24/03)
URL: <http://www.ojp.usdoj.gov/nij>
Deadline: White Papers 1/6/2004

48-2 Sensors and Sensor Networks (Sensors) (NSF)

The National Science Foundation (NSF) announces a broad interdisciplinary program of research and education in the area of advanced sensor development. This solicitation seeks to advance fundamental knowledge in engineering of materials, concepts and designs for new sensors; networked sensor systems in a distributed environment; terrestrial, atmospheric, and aquatic environmental analysis; the integration of sensors into engineered systems; and the interpretation and use of sensor data in decision-making processes. Please note that this is a much narrower solicitation than its predecessor. An individual researcher may not be named as a participant on more than one proposal submitted to this solicitation. NSF 03-512. NSF 04-522
URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf04522>
Deadline: 2/26/2004

48-3 Digital Government (DigitalGov) (NSF)

Government, on a large scale, is a collector

and provider of data and information, a provider of information-based services, and a user of information technologies. The Digital Government Program has two goals: 1) to support computer and information science research on the application of information/computer technologies to government missions, in partnership with government agencies; 2) to support multidisciplinary research on the design and use of information technologies in democratic processes, the impact of information technologies on government institutions, and the interaction between citizens and government. NSF 04-521
URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf04521>
Deadline: 3/1/2004, 11/3/2004

ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

48-4 Laboratory and Theoretical Investigations of the Thermodynamic Properties of Polar Compounds in PM (EPA)

Recent studies have suggested that polar organic compounds may comprise a large component of the organic fraction of ambient PM, especially under conditions of high photochemical activity. Thermodynamic properties of these compounds are required to predict the partitioning of these compounds between the gas phase and PM. At the present time, experimental values of critical thermodynamic parameters, such as vapor pressure and activity coefficients, are available for only a few polar compounds. The purpose of this cooperative agreement is to carry out laboratory and theoretical studies to improve the understanding of the key chemical processes controlling the ambient concentrations and compositions of the polar organic fraction of PM. TNB20584 (FBO 11/25/03)
URL: <http://www.epa.gov/nerl/>
Deadline: 1/5/2004

48-5 Information Technology Research for National Priorities (ITR) (NSF)

In FY 2004, the Information Technology Research (ITR) Program is focusing on Information Technology Research in support of National Priorities, where National Priorities are defined as: Advances in Science and Engineering (ASE); Economic Prosperity and Vibrant Civil Society (ECS); and National and Homeland Security (NHS). NSF encourages the submission of proposals targeting one or more of these National Priorities. The ITR Program places particular emphasis on interdisciplinary research and education projects. Proposers should read the solicitation carefully as there are a number of important

changes from last year's announcement. This year, an individual may appear as Principal Investigator (PI), co-PI, other senior personnel or paid consultant on only one ITR proposal, which includes a proposal submitted by a lead organization, any subaward submitted as part of a proposal, or any collaborative proposal. This PI eligibility limit means that an individual can only have one role (whether it is PI, co-PI, other senior personnel, or paid consultant) on only one proposal (whether it is a lead or collaborative proposal or subaward.) NSF 04-012
URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf04012>
Deadline: Letters of Intent 1/14/2004; Proposals 2/24/2004

48-6 Research Interests of the Air Force Office of Scientific Research (DOD)

The Air Force Office of Scientific Research (AFOSR) invites proposals for basic research in support of the Air Force Defense Research Sciences Program. The general areas of interest are: 1) Aerospace and Materials Sciences; e.g., structural mechanics; mechanics of materials and devices; unsteady aerodynamics and hypersonics; turbulence and rotating flows; combustion and diagnostics; space power and propulsion; metallic materials; ceramics and nonmetallic materials; organic matrix composites. 2) Physics and Electronics; e.g., plasma physics; space electronics; atomic and molecular physics; remote sensing and imaging; optoelectronics; laser and optical physics; quantum electronic solids; semiconductor materials; sensors in the space environment; high density optical memory. 3) Chemistry and Life Sciences; e.g., polymer chemistry; surface and interfacial science; theoretical chemistry; molecular dynamics; chronobiology; biomimetics, biomaterials, and biointerfacial sciences; perception and cognition; sensory systems; biological response profiling and assessment. 4) Mathematics and Space Sciences; e.g., dynamics and control; physical mathematics and applied analysis; computational mathematics; optimization and discrete mathematics; signals communication and surveillance; software and systems; artificial intelligence; electromagnetics; space sciences. 5) Researcher Assistance Programs; e.g., United States Air Force/National Research Council-Resident Research Associateships; National Defense Science and Engineering Graduate Fellowship Program; United States Air Force/Summer Faculty Fellows Programs. AFOSR-BAA-2004-1 (FBO 11/21/03)
URL: <http://www.afosr.af.mil/>
Deadline: Open

48-7 Foundations of Computing

Processes and Artifacts (CPA) (NSF)

The CPA cluster supports research and education projects to advance formalisms and methodologies pertaining to the artifacts and processes for building computing and communication systems.

Computational artifacts range from formalisms, models, theories and languages to hardware/software architectures, technology components and a variety of physical manifestations of implementations.

Proposals submitted in response to this solicitation will address the nature of such artifacts and the computational processes they perform, as well as the artifacts and processes involved in specifying, designing, building and using them. NSF 04-519

URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf04519>

Deadline: 3/2/2004

48-8 HIAPER Aircraft Instrumentation (HAI) (NSF)

The HIAPER (High-performance Instrumented Airborne Platform for Environmental Research) project consists of a highly modified Gulf stream V (GV) aircraft capable of high altitude, long duration, large payload capability and high speed flight. The HIAPER aircraft is intended to fill an important niche in the national fleet of scientific airborne platforms and will readily and regularly allow higher altitude and longer duration science payload missions than those generally available to the academic research community. An integral part of the HIAPER project is development and flight configuration of advanced research instrumentation for the HIAPER aircraft. This solicitation is aimed at acquisition and development of innovative instrumentation, measurement and sensing systems and new observational approaches (e.g. using emerging technologies, tele-science) to complement the platform's versatility and flight capabilities. NSF 04-517

URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf04517>

Deadline: 2/18/2004

48-9 Interdisciplinary Grants in the Mathematical Sciences (IGMS) (NSF)

The objective of the Interdisciplinary Grants in the Mathematical Sciences (IGMS) program is to enable mathematical scientists to undertake research and study in another discipline so as to: expand their skills and knowledge in areas other than the mathematical sciences; subsequently apply this knowledge in their research; and enrich the educational experiences and broaden the career options of their students. Recipients of an IGMS award are expected to spend full time in a non-mathematical science department in an academic institution or an industrial, commercial or financial organization. The expected outcome is sufficient familiarity with another discipline so as to open opportunities for effective collaboration by the mathematical scientist with researchers in another discipline. NSF 04-518

URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf04518>

Deadline: 2/19/2004

48-10 Formal and Mathematical Foundations (FMF) (NSF)

The FMF cluster seeks to determine inherent limits of computation and communication, and to obtain optimal solutions within those limits. It addresses fundamental issues of information science and technology, both within computation and communications and at the interface between these and other disciplines. Thus the cluster is broadly concerned with problems of information processing that fall within the extremes of purely theoretical studies and applications within disciplines. Research and education projects sponsored by the cluster bring advanced capabilities from computer science, scientific computing, communication theory, signal processing theory, mathematics, and application areas to bear on fundamental problems throughout science and engineering. NSF 04-520

URL: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf04520>

Deadline: 3/4/2004

48-11 Treatment Technologies for Arsenic Removal for Small Drinking Water Systems (EPA)

This solicitation seeks proposals for treatment technologies for cost-effective arsenic removal for small drinking water systems. The objective of this program is to pre-qualify treatment technologies for a subsequent demonstration program which will evaluate the efficiency and effectiveness of drinking water treatment technologies to meet the new arsenic maximum contaminant level (MCL) of 0.010 mg/l (10 ug/l) for varying source water quality conditions. For the purposes of this solicitation, "treatment technologies" may also include process modifications and engineering approaches, as well as point-of-use (POU)/point-of-entry (POE) devices.

URL: http://es.epa.gov/ncer/rfa/current/2004_arsenic.html

Deadline: 1/5/2004

SOCIAL SCIENCE

48-12 Youth Violence Prevention Through Community-Level Change (CDC)

The purpose of the program is to announce the availability of a cooperative agreement program for the evaluation of community-level interventions to reduce youth violence. Youth violence has been linked to a variety of factors, including individual, family, community, and social characteristics. While much research has been conducted on interventions with individuals and families, less often have interventions focused on variables at the broader community level. (FR 12/2/03)

URL: <http://www.cdc.gov>

Deadline: Letters of Intent 1/2/2004; Applications 2/17/2004

48-13 Practices To Improve Training Skills of Home Visitors (HHS)

The Centers for Disease Control and Prevention (CDC) announces the availability of fiscal year (FY) 2004 funds for a cooperative agreement program to conduct a systematic examination of the impact of home visitor training and factors related to the implementation (i.e., competency of visitors providing services, adequate coverage of content according to a pre-specified protocol) of an existing efficacious or effective home visiting program on family outcomes of child maltreatment and risk behaviors for youth violence (e.g., poor parent-child relations; harsh, lax, or inconsistent discipline). PA 04053 (FR 12/1/03)

URL: <http://www.cdc.gov>

Deadline: Letters of Intent 12/31/2003; Applications 2/19/2004

48-14 Research on the Association Between Exposure to Media Violence and Youth Violence (HHS)

The purpose of the program is to conduct methodologically sound research on how media violence affects youth violent behavior. Project proposals should be designed to: 1) Examine the association between exposure to violent media and serious violent behavior, including victimization and perpetration resulting in injury; 2) include an assessment of the specific aspects of media (e.g., type and content) that are likely to contribute to risk for violence; and 3) identify individual and contextual factors that mediate or moderate the association between exposure to violent media and serious violent behavior, with particular attention to the potential moderating effects of gender and prior exposure to real-life violence. (FR 11/28/03)

URL: <http://www.cdc.gov>

Deadline: Letters of Intent 12/29/2003; Applications 2/17/2004

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