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Research Opportunities Compiled by:

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Opportunity #1

Exploring New Air Pollution – Health Effects Links in Existing Datasets

USEPA

EPA-G2010-STAR-B1

Description: The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing to use existing datasets from health studies to analyze health outcomes for which the link to air pollution is not well established, or to evaluate underlying heterogeneity in health responses among subgroups defined by susceptibility or extent and/or composition of exposure.

Link to Full Announcement:

http://epa.gov/ncer/rfa/2010/2010_star_air_poll.html

Opportunity #2

NIJ FY 10 Corrections Technology Center of Excellence

National Institutes of Justice

NIJ-2010-2394

Description: The National Institute of Justice (NIJ) is the research, development, and evaluation agency of the U.S. Department of Justice (DOJ) and a component of the Office of Justice Programs (OJP). NIJ provides objective, independent, evidence-based knowledge and tools to enhance the administration of justice and public safety. NIJ solicits applications to inform its search for the knowledge and tools to guide policy and practice. NIJ seeks qualified applicants to operate a Corrections Technology Center of Excellence (“the Center”) within the National Law Enforcement and Corrections Technology Center System (“the NLECTC System”). The work that this new center will perform is currently being performed by the Weapons and Protective Systems Technology Center of Excellence (WPSTC). The WPSTC has been operated since 2007 by the Pennsylvania State University in collaboration with the University of Denver.

Link to Full Announcement:

<http://www.ncjrs.gov/pdffiles1/nij/sl000891.pdf>

Opportunity #3

NIJ FY 10 Communications Technology Center of Excellence

National Institutes of Justice

NIJ-2010-2396

Description: The National Institute of Justice (NIJ) is the research, development, and evaluation agency of the U.S. Department of Justice (DOJ) and a component of the Office of Justice Programs (OJP). NIJ provides objective, independent, evidence-based knowledge and tools to enhance the administration of justice and public safety. NIJ seeks qualified applicants to operate the Communications Technology Center of Excellence (“the Center”) within the National Law Enforcement and Corrections Technology Center System (“the NLECTC System”). Within the areas of communications-related and position-location technologies, the Center provides scientific and technical support to NIJ’s research and development efforts; supports the demonstration, transfer, and adoption of appropriate technology into practice by criminal justice agencies; assists in the development and dissemination of technology guidelines and standards; and provides technology assistance, information, and support to criminal justice agencies.

Link to Full Announcement

<http://www.ncjrs.gov/pdffiles1/nij/sl000897.pdf>

Opportunity #4

**NIJ FY 10 ORE Crime and Justice Research and Evaluation: Investigator-Initiated
National Institutes of Justice
NIJ-2010-2451**

Description

NIJ is seeking applications for funding of social and behavioral research on, and evaluations related to, crime and justice topics relevant to State, local, tribal, or Federal criminal and juvenile justice policy and practice.

Link to Full Announcement:

<http://www07.grants.gov/search/search.do;jsessionid=q7VsLgCQWB0C7BCfLx3ZYFxf1nGVj3PTyvs53pRMN5PMNnycKVRp!-1299818899?opId=51354&mode=VIEW>

Opportunity #5

FY2010 Integrated Ocean Observing System Community Modeling Environment to Support a Super-Regional Test Bed

Department of Commerce – NOAA
NOAA-NOS-IOOS-2010-2002258

Description: The Integrated Ocean Observing System (IOOS) is working to link national and regional observations (observations subsystem), data management (data management and communications subsystem), and modeling and analysis subsystem to provide required data and information on local to global scales to address IOOS seven societal goals of:

- (1) Improve predictions of climate change and weather and their effects on coastal communities and the nation,
- (2) Improve the safety and efficiency of maritime operations,
- (3) More effectively mitigate the effects of natural hazards,
- (4) Improve national and homeland security,
- (5) Reduce public health risks,
- (6) More effectively protect and restore healthy coastal ecosystems, and
- (7) Enable the sustained use of ocean and coastal resources.

The IOOS modeling and analysis (MA) subsystem supports the ocean, coastal and Great Lakes nowcasting/forecasting/hindcasting and decision making capabilities of IOOS that are needed to address these societal goals. IOOS observing subsystem and data management and communication subsystems are supporting elements for the MA system. Modeling expertise is available within the IOOS Regional Associations, other academic and research institutes, private sector entities, the Federal, local and state government. NOAA, along with other IOOS stakeholders, views the development of a community modeling environment that successfully demonstrates the capability for modeling scientists to share the use of a wide range of oceanic, coastal, atmospheric, hydrologic, and ecological models and associated data, tools and techniques that supports systematic testing, evaluation and transition as appropriate, into operations, as essential to a sustained and operational IOOS. This modeling environment should be designed with the potential to be used for a variety of different modeling problems and over different geographies. The program priorities for this funding opportunity are to conduct a super-regional test bed demonstration of the community modeling environment by transitioning models, tools, toolkits and other capabilities to a Federal operational facility to improve the understanding, prediction, and mitigation of the consequences of extreme events and chronic conditions affecting the U.S. Atlantic and Gulf Coasts. Of particular interest are phenomena that intersect the mission goals of NOAA, other operational agencies and the IOOS Regional Associations. This demonstration should also include estimates of the potential costs and benefits of improvements in the current modeling systems at Federal operational agencies. NOAA seeks proposals for a single cooperative agreement that will define and implement the community modeling environment and demonstration of a super-regional test bed. This test bed is a common environment in which identical variables, boundary conditions, initial conditions, parameterizations and other inputs used in various models to rigorously test and evaluate forecasting skill and the requirements needed for transition to a Federal operational facility or other entities as appropriate. The community environment and associated test bed must also enable data integration and dissemination, and enable scientists to share use of numerical models, observations, and tools; and in addition, provide an environment for identifying, prioritizing and resolving issues associated with interoperable coupling of a range of models such as coastal, oceanic, atmospheric, hydrologic and ecological. Such a test bed and community modeling environment should include no less than 20 academic partners and research institutions, and partnerships with appropriate Federal operational modeling groups to guarantee it is multi-disciplinary, inclusive of community-modeling, and able to address operational constraints inherent in transitioning models into an operational Federal environment.

Submitted proposals should address the following:

- (1) In collaboration with Federal partners, development of metrics and a system to evaluate the potential feasibility, costs, and benefits of improvement to existing operational capabilities of transitioning current and emerging community-based ocean, coastal and Great Lakes models into Federal operational facilities. Cooperative development of strategies and specific steps needed to transition existing models or modeling systems into Federal operational facilities including addressing issues of transition costs, reliability, expanded coverage, etc.
- (2) Define and transition into a Federal operational facility one or more models, tools, toolkits or other capabilities to advance an operational capability to predict an environmental extreme event in the U.S. Atlantic and Gulf Coasts. The transition to a Federal operational agency is not intended to imply a model, tool or other capability is operational, but rather has been implemented by the agency under pre- operational conditions.
- (3) Use and build upon existing infrastructure, models and expertise to maximize the benefits to the modeling community and leverage existing resources, capacities and capabilities.
- (4) Define roles and responsibilities of academic, government and private sector modeling experts, infrastructure and capabilities in the community modeling environment and test bed demonstration.

- (5) Demonstrate engagement of customer or end users that define the requirements for modeling improvements and provide feedback and evaluation from beginning to end of the project.
- (6) Conduct the end-to-end modeling process of data access and assimilation, interoperable model coupling, model output delivery, model testing and evaluation, analysis, visualization, skill assessment and user evaluation.
- (7) Describe suggested strategies for sustaining the modeling test bed infrastructure and expanding to other areas, models or problems.

Link to Full Announcement:

<http://www07.grants.gov/search/announce.do;jsessionid=sLL2LgDPTHGpHYzFpjk80By2rVRGy5ZCN3C5tJY3dJrTZFPMvdZq!-1299818899>

Opportunity #6

Environmental Literacy Grants for Informal/Non-formal Science Education Department of Commerce – NOAA NOAA-SEC-OED-2010-2002248

Description: The goal of this funding opportunity is to support projects that engage the public in educational activities that utilize emerging and/or advanced technologies and leverage NOAA assets to improve understanding, and stewardship of the local and global environment. There is specific interest in projects that use emerging and/or advanced technologies to

- (1) facilitate outdoor experiences involving scientific inquiry and exploration of the natural world apart from formal K-12 curricula and
- (2) visualize, display, and interpret data to improve understanding and provide a systems perspective of Earth's dynamic processes.

This program has two priorities.

- Priority 1 is for large-scale projects that occur over a longer duration with regional to national implementation.
- Priority 2 is for small-scale projects that occur over a shorter duration with local to regional implementation. Funded projects will be between one and five years in duration.

This program meets NOAA's Mission Support goal to provide critical support for NOAA's mission. It is anticipated that awards under this announcement will be made by September 30, 2010 and that projects funded under this announcement will have a start date no earlier than October 1, 2010.

Link to Full Announcement:

<http://www07.grants.gov/search/announce.do;jsessionid=sLL2LgDPTHGpHYzFpjk80By2rVRGy5ZCN3C5tJY3dJrTZFPMvdZq!-1299818899>

Opportunity #7

Plans for Integration and Re-competition of EAR Solid Earth Deformation Facilities Dear Colleague Letter – National Science Foundation NSF 10-021

Dear Colleague: This letter is to inform you of plans to integrate and re-compete the management and operation of the three major seismic and geodetic facilities supported by the Division of Earth Sciences (EAR) in the Directorate for Geosciences (GEO) at the National Science Foundation (NSF). Those facilities are the core seismic Facility managed by the Incorporated Research Institutions for Seismology (IRIS), the core geodetic Facility managed by UNAVCO, and the EarthScope Facility managed jointly by IRIS and UNAVCO.

The core facilities operated by IRIS and UNAVCO share virtually identical technical and logistical support needs and business systems with the EarthScope Facility, and provide very similar support to the community. In addition, all four awards governing these facilities will expire in the next four years. NSF believes this is a good opportunity to undertake a phased integration and recompetition process involving these three facilities.

NSF considered several different options for recompetition of the management and operation of these facilities, and plans a two-step process. In 2012-13, NSF intends to integrate the management and operations of the current IRIS core seismic Facility with those of the USArray component of the EarthScope Facility under a single award. At the same time, NSF will integrate the management and operations of the current UNAVCO core geodetic Facility with those of the Plate Boundary Observatory (PBO) and San Andreas Fault Observatory at Depth (SAFOD) components of the EarthScope Facility under a second award. Near the end of the first five years of integrated operations, NSF plans to issue a new solicitation to re-compete the management and operations of both of these integrated seismic and geodetic facilities.

This plan will:

- (1) address existing National Science Board policy requiring periodic recompetition of the management of major NSF facilities (NSB-08-16);
- (2) be consistent with prior National Science Board approval of IRIS and UNAVCO as managers and operators of the EarthScope Facility through FY2018 (NSB-03-62 and NSB-07-116);
- (3) simplify NSF oversight of these facilities;
- (4) streamline the management of these facilities leading to more cost-effective operation;
- (5) allow sufficient time for community input to facility integration before re-competition;
- (6) minimize disruption to EarthScope Facility operations, especially during the planned deployment of USArray to Alaska in 2014; and
- (7) further existing partnerships with other U.S. and international agencies in support of these solid Earth deformation facilities.

NSF welcomes community feedback on the integration of the management of these facilities and this plan overall. Please contact any of the following NSF program officers with questions or comments:

Gregory Anderson
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Link to Full Announcement:

http://www.nsf.gov/pubs/2010/nsf10021/nsf10021.txt?WT.mc_id=USNSF_25&WT.mc_ev=click

Opportunity #8

Undergraduate Research and Mentoring in the Biological Sciences (URM) National Science Foundation NSF 10-531

Description: The goal of the Undergraduate Research and Mentoring in the Biological Sciences (URM) program is to increase the number and diversity of individuals pursuing graduate studies in all areas of biological research supported by the NSF Directorate for Biological Sciences. Support will be provided to academic institutions to establish innovative programs to engage undergraduates in a year-round research and mentoring activity. Particular emphasis will be placed on broadening participation of members of groups historically underrepresented in science and engineering: African Americans, Alaska Natives, American Indians, Hispanic Americans, Native Hawaiians and other Pacific Islanders, and persons with disabilities.

- Anticipated Type of Award: Standard Grant or Continuing Grant
- Estimated Number of Awards: 8 The URM Program expects to make at least 8 awards, pending availability of funds.
- Anticipated Funding Amount: \$3,000,000 for new standard or continuing awards in FY 2010 subject to the availability of funds.
- Organization Limit Proposals may only be submitted by the following:
 - Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.
- PI Limit: None Specified
- Limit on Number of Proposals per Organization: One (1) proposal per organization
- Limit on Number of Proposals per PI: None Specified
- Preliminary Proposal Submission: Not Applicable
- Cost Sharing Requirements: Cost Sharing is not required under this solicitation.
- Indirect Cost (F&A) Limitations: Indirect costs are limited to a maximum of 25% of the Participant Support stipend amount only (Line F1 on the proposal budget).
- Other Budgetary Limitations: Not Applicable
- Full Proposal Deadline(s) (due by 5 p.m. proposer's local time): April 26, 2010, March 01, 2011, First Tuesday in March, Annually Thereafter

Link to Full Announcement:

http://www.nsf.gov/pubs/2010/nsf10531/nsf10531.txt?WT.mc_id=USNSF_179

Opportunity #9

Cyberinfrastructure Training, Education, Advancement, and Mentoring for Our 21st Century Workforce (CI-TEAM)

National Science Foundation

NSF 10-532

Description: New information, communication, and computational technologies have had profound impacts on the practice of science and engineering. Linked to create a comprehensive cyberinfrastructure, the systems, tools, and services emerging from these new technologies are enabling individuals, groups, and organizations to advance research and education in ways that revolutionize who can participate, what they can do, and how they do it. Sustaining this revolution across all areas of science and engineering requires the formation of a workforce with the knowledge and skills needed to design and deploy as well as adopt and apply these cyber-based systems, tools and services over the long-term. The opportunity for such preparation should be available at all stages of formal and informal education, training and professional development, and must be extended to all interested individuals and communities.

The CI-TEAM program supports projects that position the national science and engineering community to engage in integrated research and education activities promoting, leveraging and utilizing cyberinfrastructure systems, tools and services.

CI-TEAM awards will:

- Prepare current and future generations of scientists, engineers, and educators to design and develop as well as adopt and deploy, cyber-based tools and environments for research and learning, both formal and informal.
- Expand and enhance participation in cyberinfrastructure science and engineering activities of diverse groups of people and organizations, with particular emphasis on the inclusion of traditionally underrepresented individuals, institutions especially Historically Black Colleges and Universities (HBCUs) and Minority Serving Institutions (MSIs), and communities as both creators and users of cyberinfrastructure.

This solicitation seeks three types of project proposals, all aimed at the preparation of a diverse, cyberinfrastructure-savvy science and engineering workforce.

- One type of proposal, the Demonstration Project, is exploratory in nature and may be somewhat limited in scope and scale. Demonstration Projects have the potential to serve as exemplars to effective larger-scale implementation and diffusion activities in the future.
- The second project type, the Implementation Project, is generally larger in scope or scale and draws on prior experience with the activities or the teams proposed.
- The third project type, the Diffusion Project, is expected to engage broad national audiences with research results, resources, models, and/or technologies. Implementation or Diffusion Projects are expected to deliver sustainable learning and workforce development activities that complement ongoing NSF investment in cyberinfrastructure.

All CI-TEAM projects seek to broaden and diversify the population of individuals and institutions participating in cyberinfrastructure activities specifically and, thereby, science and engineering more generally. Toward that goal, the three types of projects consist of collaborations with expertise in multiple disciplines and involve partnerships that support integrated research and learning among diverse organizations including, as appropriate, academic institutions of higher learning, primary and secondary schools, government, industry, professional societies, other not-for-profit organizations, and international partners. Other key features of CI-TEAM projects involve a commitment to: leveraging existing or current development efforts in cyberinfrastructure technologies; open software standards and open educational resources; the integration of research and learning; institutional partnerships; and strategic implementation, management, and evaluation plans.

- Following merit review of the proposals received, NSF expects to select for support 6 to 7 Demonstration Projects at up to \$250,000 total each and 3 to 6 Implementation or Diffusion Projects at up to \$1,000,000 total each that together constitute a rich portfolio of cyberinfrastructure-related workforce development activities.
- Full Proposal Deadline(s) (due by 5 p.m. proposer's local time): April 27, 2010

Link to Full Announcement:

http://www.nsf.gov/pubs/2010/nsf10532/nsf10532.txt?WT.mc_id=USNSF_25&WT.mc_ev=click

Opportunity #10

NSF/FDA Scholar-in-Residence at FDA National Science Foundation NSF 10-533

Description: The National Science Foundation (NSF), through the Directorate for Engineering's Division of Chemical, Bioengineering, Environmental, and Transport Systems (CBET), and the U.S. Food and Drug Administration (FDA), through its Center for Devices and Radiological Health (CDRH) have established the NSF/FDA Scholar-in-Residence Program at FDA. This program comprises an interagency partnership for the investigation of scientific and engineering issues concerning emerging trends in medical device technology. This partnership is designed to enable investigators in science, engineering, and mathematics to develop research collaborations within the intramural research environment at the FDA. This solicitation features four flexible mechanisms for support of research at the FDA:

- 1) Faculty at FDA;
 - 2) Graduate Student Fellowships;
 - 3) Postdoctoral Fellowships; and,
 - 4) Undergraduate Student Research Experiences. Undergraduate student participants supported with NSF funds must be citizens or permanent residents of the United States.
- Anticipated Type of Award: Standard grant or supplement.
 - Estimated Number of Awards: 3 to 10
 - Anticipated Funding Amount: \$500,000 in FY 2010 pending the availability of funds.
 - Organization Limit: None Specified
 - PI Limit: None Specified
 - Limit on Number of Proposals per Organization: None Specified
 - Limit on Number of Proposals per PI: None Specified
 - Full Proposal Deadline(s) (due by 5 p.m. proposer's local time): April 27, 2010, March 15, 2011, March 15, Annually Thereafter

Link to Full Announcement:

http://www.nsf.gov/pubs/2010/nsf10533/nsf10533.txt?WT.mc_id=USNSF_25&WT.mc_ev=click

Opportunity #11

NIDDK Education Program Grants (R25) DHHS – NIH PAR-10-092

Description: This funding opportunity announcement (FOA) encourages Research Education (R25) grant applications from applicant organizations that propose to create educational opportunities to attract undergraduate students, graduate students, and postdoctoral fellows to careers in areas of biomedical or behavioral research of particular interest to the NIDDK, while fostering the career development of these students and fellows. The NIDDK is especially interested in attracting students and postdoctoral fellows from scientific disciplines underrepresented in disease-oriented biomedical research, such as engineering, informatics, computer science, and computational sciences, to encourage them to apply their expertise to research relevant to diabetes and other endocrine and metabolic diseases; digestive and liver diseases; nutrition; obesity research and prevention; and kidney, urologic and hematologic diseases. This FOA will use the NIH Research Education (R25) grant mechanism. Research education programs may not be transferred from one institution to another, unless strongly justified (see Section VI.2). The R25 application Research Education Program Plan (using Research Strategy section) of the PHS398 Research Plan Component (SF424 Application Guide, Section 5.5) may not exceed **25** pages, including tables, graphs, figures, diagrams, and charts. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided each application is scientifically distinct. Applicants may submit a resubmission application, but such an application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications ([NOT-OD-09-003](#), [NOT-OD-09-016](#)). Renewal applications are allowed for this research education program.

Link to Full Announcement:

<http://grants1.nih.gov/grants/guide/pa-files/PAR-10-092.html>

Opportunity #12

Pre-Application for the 2010 NIDA Translational Avant-Garde Award for Medication Development for Diseases of Addiction (X02)

DHHS – NIH

PAR-10-095

Description: The purpose of this funding opportunity announcement (FOA) is to encourage pre-applications for The NIDA Translational Avant-Garde Award. The NIDA Translational Avant-Garde Award is designed to support dedicated and talented basic and/or clinical researchers with the vision, drive and expertise necessary to translate research discoveries into medications for the treatment of diseases of addiction. Through this FOA, the National Institute on Drug Abuse (NIDA) is committed to making significant advances in the development of safe and efficacious products for the treatment of disorders stemming from tobacco, cannabis, cocaine, methamphetamine, heroin, or prescription opiate use or abuse. This announcement will utilize the X02 mechanism for submission and consideration of pre-applications. The X02 pre-application is a first step in applying for a Translational Avant-Garde Award. No awards will be made under this announcement. Through the associated FOA (RFA-DA-10-013), NIDA expects to commit approximately \$ 2 million per year for 5 years to fund 2-3 awards.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/pa-files/PAR-10-095.html>

Opportunity #13

Investigator Initiated Multi-Site Clinical Trials (Collaborative R01)

DHHS – NIH

PAR-10-096

Description: The purpose of this Funding Opportunity Announcement is to provide a vehicle for submitting grant applications for investigator-initiated multi-site Phase II or Phase III randomized, controlled clinical trials. The trials may address any research question related to the mission and goals of NHLBI and may test clinical or behavioral interventions. Investigators should consult the NHLBI's Guidelines for Investigator Initiated Clinical Trials (<http://www.nhlbi.nih.gov/funding/policies/clinical.htm>) for more detailed instructions and information about multi-site clinical trial grant applications. Additional information about the mission, strategic plan and research interests of the NHLBI can be found at NHLBI's website (<http://www.nhlbi.nih.gov/index.htm>). This Funding Opportunity Announcement is not intended for support of single-center studies or multi-center observational studies that are not testing an intervention. This FOA will utilize the NIH Research Project Grant (R01) award mechanism. Awards may be converted by NHLBI to cooperative agreements (U01).

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/pa-files/PAR-10-096.html>

Opportunity #14

Deep Sequencing and Analysis of Pharmacogenomic Regions: Discovery and Analysis of Genetic Variants Contributing to Drug Abuse and Addiction (R01)

DHHS – NIH

RFA-DA-10-01

Description: Genome-wide association studies (GWAS) have been critical for identifying genomic regions associated with addiction phenotypes, and have highlighted several areas that require further refinement using deep sequencing approaches. The goal of this FOA is to support studies proposing to use next-generation sequencing technologies to identify the structural variants and SNP variants with rare to moderate frequencies that affect addiction risk in well-characterized samples with drug abuse phenotypes. Applications may propose strategies for deep sequencing based on family based designs; deep sequencing of regions identified by GWAS to be associated with addiction risk; sequencing candidate genes in individuals with extreme phenotypes; or other analytic approaches that capitalize on the genetic architecture. Applicants must use existing DNA samples with appropriately obtained consents for broad data sharing. This FOA will utilize the **R01** award mechanism. The total amount to be awarded for this FOA will be up to \$10M in total costs per year, with the anticipated number of awards ranging from 1-4. Budgets for direct costs of up to \$2.5M per year and a project duration of up to five years may be requested. The **R01** Research Strategy section may not exceed **12** pages, including tables, graphs, figures, diagrams, and charts. More than one PD/PI (i.e., multiple PDs/PIs) may be designated on the application. Applicants may submit more than one application, provided each application is scientifically distinct. Resubmission applications are not permitted in response to this FOA. Renewal applications are not permitted in response to this FOA.

Link to Full Announcement:

<http://grants1.nih.gov/grants/guide/rfa-files/RFA-DA-10-019.html>

Opportunity #15

2010 NIDA Translational Avant-Garde Award for Medication Development for Diseases of Addiction (DP1)

DHHS – NIH

RFA-DA-10-013

Description: The NIDA Translational Avant-Garde Award is designed to support dedicated and talented basic and/or clinical researchers with the vision, drive and expertise necessary to translate research discoveries into medications for the treatment of diseases of addiction. Through this funding FOA, the National Institute on Drug Abuse (NIDA) is committed to making significant advances in the development of safe and efficacious products for the treatment of disorders stemming from tobacco, cannabis, cocaine, methamphetamine, heroin, or prescription opiate use or abuse. These products can be pharmaceuticals (small molecules) or biologics. Biologics include medicinal products such as vaccines and recombinant therapeutic proteins created by biological processes. Applications may focus on the pharmacotherapy of one or various disorders. Applications may also focus on the specific symptoms of the disorder such as withdrawal, craving or relapse. Testing of new formulations of marketed medications that are available for other indications, or new combinations of existing medications, which may be promising candidates for the treatment of diseases of addiction is within the scope of this FOA. The 2010 Translational Avant-Garde Award competition will proceed in two phases. The first phase is a pre-application phase in response to PAR-10-095. Pre-applications will be evaluated by a group of external reviewers. Those investigators whose submissions are judged to be the most outstanding will be notified of the opportunity to submit full applications under this FOA (DP1). The 2010 Avant-Garde awardees will be selected from this group of applicants. This FOA will utilize the DP1 grant mechanism. Pre-applications for 2010 Translational Avant-Garde Awards were encouraged under PAR-10-095. Contingent upon the submission of a sufficient number of scientifically meritorious applications, NIDA intends to commit \$2 million for 2-3 awards in fiscal 2010.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-10-013.html>

Opportunity #16

Medications Development for Substance Related Disorders (R01)

DHHS - NIH

RFA-DA-10-018

Description: The National Institute on Drug Abuse (NIDA) is soliciting grant (R01) applications to support a diverse array of preclinical and/or clinical research projects that accelerate the translational discovery/development of safe and effective medications for the treatment of substance-related disorders (SRDs), with the ultimate goal of moving closer to, or gaining FDA approval of medications for the treatment of these disorders. This FOA will utilize the R01 award mechanism. It is anticipated that a total of 10 awards will be funded for a total of \$10,000,000. Budgets for direct costs of up to \$1,000,000 per year and a project duration of up to five years may be requested for a maximum of \$5,000,000 direct costs over a five-year project period. The R01 Research Strategy section may not exceed 12 pages, including tables, graphs, figures, diagrams, and charts. More than one PD/PI (i.e., multiple PDs/Pis) may be designated on the application. Applicants may submit more than one application, provided each application is scientifically distinct. Resubmission applications are not permitted in response to this FOA. Renewal applications are not permitted in response to this FOA.

Link to Full Announcement:

<http://grants1.nih.gov/grants/guide/rfa-files/RFA-DA-10-018.html>

Opportunity #17

NIDDK Centers of Excellence in Molecular Hematology (P30)

DHHS - NIH

RFA-DK-09-013

Description: This FOA issued by The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) invites grant applications for Centers of Excellence in Molecular Hematology (CEMH). The Centers of Excellence in Molecular Hematology are part of an integrated program of hematologic diseases-related research support provided by the NIDDK. The Centers currently funded in this program have provided a focus for increasing collaboration and improving the cost-effectiveness of supported research among groups of successful investigators at institutions with an established, comprehensive hematologic diseases research base. An open competition is invited, in order to renew and strengthen this program. This FOA will utilize the P30 award mechanism. The total amount of funding that the NIDDK expects to award through this announcement is \$4,600,000 in fiscal year 2010 for an anticipated 4 awards. Budgets for direct costs should not exceed \$750,000 per year. An applicant should request a project period of five years. Although the financial plans of the NIDDK provide support for this program, awards pursuant to this FOA are contingent upon the availability of funds and the receipt of a sufficient number of meritorious applications. The P30 Research Strategy section may not exceed 6 pages for each core and 6 for the P/F core, including tables, graphs, figures, diagrams, and charts. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided they are scientifically distinct. Resubmission applications are not permitted in response to this FOA. Renewal applications are permitted in response to this FOA.

Link to Full Announcement:

<http://grants1.nih.gov/grants/guide/rfa-files/RFA-DK-09-013.html>

Opportunity #18

Nutrition Obesity Research Centers (P30)

DHHS - NIH

RFA-DK-10-003

Description: This FOA issued by the National Institutes of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, solicits grant applications from institutions/organizations that propose to establish core centers that are part of an integrated program of nutrition and/or obesity-research. The purpose of this Centers program is to bring together, on a cooperative basis, basic science and clinical investigators to enhance the effectiveness of their research related to nutrition and/or obesity. This FOA will utilize the P30 award mechanism. The total amount of funding that the NIDDK expects to award through this announcement is \$5,000,000 to fund a total of five new and/or renewal grants. Five existing P30 Centers are expected to submit renewal applications.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-10-003.html>

Opportunity #19**Institutional Clinical and Translational Science Award (U54)
DHHS – NIH
RFA-RM-10-001**

Description: The Clinical and Translational Science Award (CTSA) initiative assists institutions to create an integrated academic home for Clinical and Translational Science that has the resources to train and advance multi- and inter-disciplinary investigators and research teams with access to innovative research tools and information technologies that apply new knowledge and techniques to patient care. Clinical and Translational Science Awards (CTSAs) attract basic, translational, and clinical investigators, community clinicians, clinical practices, networks, professional societies, and industry to develop new professional interactions, programs, and research projects. Through innovative advanced degree programs, CTSAs foster the discipline of Clinical and Translational Science that is broader and deeper than their separate components (definitions of Clinical and Translational Science are provided in Section I of this document). This FOA will utilize the National Institutes of Health (NIH) cooperative agreement specialized center (U54) award mechanism. The total funds available for the new awards are approximately \$80 million. Up to 10 awards are anticipated from this solicitation. The NIH intends to issue solicitations for additional CTSAs in future years.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-10-001.html>

Opportunity #20**Youth Science (YS) Cooperative Outreach Agreement (COA)
Department of Defense - Dept of the Army -- Materiel Command
W911NF-10-R-0002**

Description: The purpose of the Youth Science (YS) Cooperative Outreach Agreement (COA) is to solicit offers to carry out the public purpose of support and stimulation of science, technology, engineering, and math (STEM) education and outreach in conjunction with the U.S. Department of Defense and the U.S. Department of the Army. The Army envisions the YS COA will bring together government and a consortium of organizations working collaboratively to further STEM education and outreach efforts nationwide.

Link to Full Announcement:

<http://www.arl.army.mil/www/default.cfm?Action=6&Page=8>