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**Research Opportunities Compiled by:**

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**Opportunity #1**

**Continuation of the Federal Justice Statistics Program  
Bureau of Justice Statistics  
2010-BJS-2540**

**Description:** The Bureau of Justice Statistics (BJS) is the statistics agency of the U.S. Department of Justice (DOJ) and a component of the Office of Justice Programs (OJP). BJS is announcing a public solicitation for the continuation of the Federal Justice Statistics Program (FJSP) through a Cooperative Agreement. The FJSP serves as the national clearinghouse for federal criminal case processing data – a unique data resource that permits analysis of defendants as they proceed through stages of the federal justice system. Under this program, data are provided by federal justice agencies and are standardized, maintained, analyzed, and archived by recipient. The clearinghouse contains annual data for the years 1994 to 2008. Tasks for the next budget period include receiving 2009 datasets from six federal agencies, converting these data to Standard Analysis File (SAF) format using FJSP processing criteria, and implementing guidelines to ensure data quality and confidentiality. Recipient will also provide technical assistance in using the FJSP data, prepare data and documentation files to support the web-based query system, assist BJS in the creation of new statistical products (e.g., web and/or paper formats), prepare data files with documentation for the National Archive of Criminal Justice Data, and explore adding to the holdings of the clearinghouse.

**Link to Full Announcement:**

<http://bjs.ojp.usdoj.gov/content/pub/pdf/fjsp10sol.pdf>

**Opportunity #2**  
**Transformative Apps**  
**Department of Defense**  
**DARPA-BAA-10-41**

**Description:** The goal of the Transformative Apps program is to place the right mobile software applications ("apps") into the hands of warfighters as the apps are needed. As a result of this program, a diverse array of apps of national security relevance will be realized using an innovative new development and acquisition process. A military apps marketplace will be created to enable rapid innovation to meet user needs based on a direct collaboration between a vibrant and highly competitive development community and involved communities of end-users. The program will address all the challenges - technical, business, and operational - faced to make the new capabilities available for use in the field. The end objective is to transition the resulting systems to the end users in the Services, and to foster a new model for rapidly and effectively acquiring, introducing, maintaining, and enhancing software. DARPA seeks proposals for new and innovative technologies in the following Areas of Interest. Apps Marketplace Architecture A new architecture for apps marketplace and collaboration infrastructure is required. Of particular interest are: tools and processes (spanning the range from automated code validation tools to quality assurance management processes) to be used in vetting new apps, social networking platforms for promoting innovation and idea sharing between users and developers, schemes to incentivize user feedback and participation, and new business models for creating and maintaining apps. Applications Development DARPA is seeking applications to fill a diverse set of needs, including

1. the tactical battlefield,
2. humanitarian missions,
3. disaster recovery, and
4. other mission area

Example functionalities include

1. command and control,
2. reporting,
3. mission planning,
4. intelligence/ surveillance/ reconnaissance,
5. real-time collaboration,
6. geospatial visualization,
7. analysis,
8. language translation,
9. training, and
10. logistics tracking

For the initial implementation, all apps should target the Android platforms. Special attention must be paid to the apps' user interfaces and usability functions, as well as striving towards general simplicity and ease-of-use. While some apps will function without network access (except for occasional synchronization or updates), other apps may require more consistent network connectivity. For apps that rely heavily on network connectivity, the emphasis must be placed on minimal bandwidth consumption and application robustness in spite of frequent network disconnection. In all cases, any server infrastructure requirements needed to support the apps should be included as part of the proposal. Middleware Services and Libraries Middleware services and libraries are required to facilitate shared capabilities and accelerate app development. Examples technologies include

1. map viewing,
2. time services,
3. data synchronization,
4. speech recognition,
5. information assurance,
6. peer-to-peer services, and
7. apps management

Of particular importance are middleware and tools to enable secure, robust operation of apps on tactical networks in spite of limited backend computing/storage resources and dynamically changing connectivity. Data compression, synchronization, pre-fetch and caching will play a key role in many of the applications. Tools for monitoring, managing and analyzing individual apps and network traffic will also be developed as part of this program. Network Infrastructure An affordable, robust, and secure mobile tactical network capability compatible with commercial smartphones will be developed. Infrastructure kits that allow for light-weight mobile base stations need to be easily deployed in multiple variants (e.g. for a large fixed site location, an outpost, a vehicle on-the-move or at-the-halt) and will be used to reach mobile dismounted users. The program will leverage, to the greatest extent possible, commercial components and standards and focus on demonstrating "good enough" solutions with appropriate security and functionality enhancements for tactical users. Non-developmental commercial off-the-shelf (COTS)

hardware should be favored when available. The nodes must be sufficiently low-cost and affordable for wide deployment to the lowest tactical echelons and have a desired target network node cost of \$5,000 per vehicle. Solutions that build on open cellular standards (3GPP) should be considered as well as open source implementations of those standards (e.g. OpenBTS). Proposals should describe the hardware and software design, trade-offs in cost/size/reach/power, and approaches in network discovery, control, provisioning and management, routing and inter-networking. Special attention must be given to the software modifications required to address key security vulnerabilities in commercial devices and wireless networks. If hardware modifications are recommended, a justification must be clearly articulated and the approach must be consistent with the program goal of affordable per-unit cost and rapid execution. The Transformative Apps program will primarily focus on the use of apps in unclassified environments and networks. Any efforts that specifically focus on enabling apps on classified networks should be described as part of options. Other Considerations DARPA is also interested in proposals outside the Areas of Interest described above, including

1. vulnerability analysis,
2. security architecture, and
3. other topics related to apps development and deployment

The following are additional considerations for the proposers:

- Proposed schedules should be very aggressive, with initial proof-of-concept demonstration targeted within the first 6 months, and iterative enhancements thereafter.
- Proposers should submit separate proposals if they are interested in more than one Area of Interest.
- Proposals with efforts involving development of multiple apps (or multiple services) should describe each of the apps (or services) in separate tasks that are individually costed out or, alternatively, write separate proposals.
- An organization that is proposing to implement an apps store will be expected to maintain full fairness and impartiality, and hence are strongly discouraged from developing apps under this BAA.

**Link to Full Announcement:**

<http://www07.grants.gov/search/announce.do;jsessionid=TqN2LQ1JmGF8ryvNvcGyLQ3TdyhNkbCfpXQyJJ6768bvtS1LNCFC!-2053821339>

### **Opportunity #3**

**Risk, Economics and Operations Research of Terrorism and All Hazards (REOR) – Center: Partners-ONLY  
Department of Homeland Security  
Science and Technology Directorate Division of Research, Office of University Programs  
DHS-10-ST-061-001B**

**Description:** This funding opportunity announcement (FOA) is associated with FOA number DHS-10-ST-061-001A. “Risk, Economics and Operations Research of Terrorism and All Hazards (REOR)—Center Lead.” Through this FOA, DHS requests applications for possible partner institutions to be part of the Risk, Economic and Operations Research COE. As appropriate to meet its needs, DHS may add partner institutions to this COE consortium, provided these partners’ proposals successfully passed a technical merit review. This FOA, DHS-10-ST-061-001B, is for Partner-ONLY applications. The FOA for the Lead COE, DHS-10-ST-061-000A, is posted separately.

This FOA will support DHS policy directives to apply a risk-focused framework across all homeland security efforts.

DHS seeks to develop a Center that will promote rigorous, innovative and path-breaking research in how the risks and consequences of terrorism and other low-probability events are evaluated and countered. DHS expects this COE and its partners not only to break new ground but also to creatively adapt existing approaches to resolve problems estimating or predicting the risk of terrorist attacks and other adverse events related to DHS’s mission. Tools and methods proposed under this funding opportunity should be rooted in valid scientific research and theory and must improve DHS’s ability to forecast terrorist reactions and responses to alternative mitigation measures. Knowledge generated by research under this effort must be amenable to integration into operations research, economics, and other social science and behavioral models and tools.

Methods developed must be sufficiently user-friendly to stimulate adoption by analysts responsible for performing cost/benefit and risk of mitigation alternatives analyses. S&T expects the REOR COE Lead and its partners to become a fully integrated component of the existing network of DHS COEs and to take advantage of the network’s resources to increase the efficiency of mission-critical research and education programs. S&T’s University Network is a consortium of COEs that share resources and data and collaborate on research projects in order to provide cost-effective results to support DHS’s mission.

Subject to the availability of funds, this funding announcement may result in a grant or cooperative agreement (CA) between DHS and a partner institution, or a subaward from the successful REOR COE lead. DHS reserves the right to select one or more of the projects submitted in response to this FOA, or none at all.

**Link to Full Announcement:**

<http://www07.grants.gov/search/announce.do;jsessionid=TqN2LQ1JmGF8ryvNvcGyLQ3TdyhNkbCfpXQyJJ6768bvtS1LNCFCI-2053821339>

### **Opportunity #4**

**NIJ FY 10 Criminal Justice Electronic Crime Technology Center of Excellence  
National Institute of Justice  
NIJ-2010-2397**

**Description:** NIJ seeks qualified applicants to operate the Criminal Justice Electronic Crime Technology Center of Excellence (“the Center”) within the NLECTC System. 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 law enforcement and corrections agencies, courts, and public crime laboratories; assists in the development and dissemination of technology guidelines and standards; and provides technology assistance, information, and support to law enforcement and other criminal justice agencies. The Center was first established within the NLECTC System in 2009 through a competitive award to Electronic Crime Partnership Initiative, LLC. How to Apply: Applications will be submitted through OJP’s Grants Management System (GMS). GMS is a Web-based, data-driven computer application that provides cradle to grave support for the application, award and management of grants at OJP.

**Link to Full Announcement:**

<http://www.ncjrs.gov/pdffiles1/nij/sl000902.pdf>

#### **Opportunity #5**

**NIJ FY 10 Information and Geospatial Technologies Center of Excellence  
National Institute of Justice  
NIJ-2010-2398**

**Description:** NIJ seeks qualified applicants to establish an Information and Geospatial Technologies Center of Excellence ("the Center") within the NLECTC System to support the NIJ research, development, testing, and evaluation (RDT&E) process in its specific technology areas. The Center will support the NIJ RDT&E process by providing scientific and technical support to NIJ's research and development efforts; supporting the demonstration, transfer, and adoption of appropriate technology into practice by law enforcement and corrections agencies, courts, and public crime laboratories; assisting in the development and dissemination of technology guidelines and standards; and providing technology assistance, information, and support to law enforcement and other appropriate criminal justice agencies. The Center will be established through a cooperative agreement.

**Link to Full Announcement:**

<http://www.ncjrs.gov/pdffiles1/nij/sl000912.pdf>

#### **Opportunity #6**

**NIJ FY 10 Sensor, Surveillance, and Biometric Technologies Center of Excellence  
National Institute of Justice  
NIJ-2010-2399**

**Description:** NIJ seeks qualified applicants to establish a Sensor, Surveillance, and Biometric Technologies Center of Excellence ("the Center") within the NLECTC System. The Center will provide scientific and technical support to NIJ's research and development efforts. The Center will also provide technology assistance, information, and support to criminal justice agencies. The Center will be established through a cooperative agreement.

**Link to Full Announcement:**

<http://www.ncjrs.gov/pdffiles1/nij/sl000931.pdf>

#### **Opportunity #7**

**NIJ FY 2010 Using DNA Technology to Identify the Missing  
National Institute of Justice  
NIJ-2010-2406**

**Description:** The goal of the "Using DNA Technology to Identify the Missing" solicitation is threefold:

- (1) to assist eligible entities in performing DNA analysis on unidentified human remains and/or reference samples to support the efforts of States and units of local government to identify missing persons,
- (2) to enter the resulting DNA profiles into the FBI's National DNA Index System using the Combined DNA Index System (CODIS) version 6.0, and
- (3) to enter any relevant case information related to unidentified remains into NamUs.

**Link to Full Announcement:**

<http://www.ncjrs.gov/pdffiles1/nij/sl000934.pdf>

#### **Opportunity #8**

**NIJ FY 10 Weapons and Protective Systems Technology Center of Excellence  
National Institute of Justice  
NIJ-2010-2418**

**Description:** NIJ seeks qualified applicants to operate the Weapons and Protective Systems Technology Center of Excellence ("the Center") within the NLECTC System to support the NIJ research, development, testing, and evaluation (RDT&E) process in its specific technology areas. The Center will support the NIJ RDT&E process by providing scientific and technical support to NIJ's research and development efforts; supporting the demonstration, transfer, and adoption of appropriate technology into practice by law enforcement and corrections agencies, courts, and public crime laboratories; assisting in the development and dissemination of technology guidelines and standards; and providing technology assistance, information, and support to law enforcement and other appropriate criminal justice agencies.

**Link to Full Announcement:**

<http://www.ncjrs.gov/pdffiles1/nij/sl000936.pdf>

**Opportunity #9**

**NIJ Research on Policing  
National Institute of Justice  
NIJ-2010-2437**

**Description:** NIJ seeks proposals to conduct research on policing to improve law enforcement policies and operations at the State and local levels. Effective law enforcement and crime prevention are of critical importance to ensuring the safety of communities throughout the country. Given the limited resources of most police departments, it is especially important to determine the effectiveness of police department policies and public safety interventions.

**Link to Full Announcement:**

<http://www.ncjrs.gov/pdffiles1/nij/sl000889.pdf>

**Opportunity #10**

**NIJ Social Science Research in Forensic Science  
National Institute of Justice  
NIJ-2010-2439**

**Description:** The many disciplines of forensic science are constantly changing and evolving, particularly as technological advancements improve law enforcement's ability to use forensic evidence more effectively and efficiently. NIJ is interested in a wide range of research that will improve public safety and advance the administration of justice by helping to improve the use of forensic evidence in the criminal justice system and ensure the integrity of forensic processes. Applicants are free to propose projects in the topics identified in this solicitation or propose other social science projects in the area of forensic science.

**Link to Full Announcement:**

<http://www.ncjrs.gov/pdffiles1/nij/sl000892.pdf>

**Opportunity #11**

**ROSES 2010: Astrobiology Science and Technology for Exploring Planets  
NASA  
NNH10ZDA001N-ASTEP**

**Description:** This NASA Research Announcement (NRA) solicits proposals for supporting basic and applied research and technology across a broad range of Earth and space science program elements relevant to one or more of the following NASA Research Programs: Earth Science, Heliophysics, Planetary Science, and Astrophysics. This ROSES NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, stratospheric balloon, suborbital rocket, and commercial reusable rocket investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years) periods.

**Link to Full Announcement:**

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={9636473D-602B-F49F-ABDC-5A26F36D08CD}&path=open>

### **Opportunity #12**

#### **ROSES 2010: Carbon Cycle Science**

**NASA**

**NNH10ZDA001N-CARBON**

**Description:** This NASA Research Announcement (NRA) solicits proposals for supporting basic and applied research and technology across a broad range of Earth and space science program elements relevant to one or more of the following NASA Research Programs: Earth Science, Heliophysics, Planetary Science, and Astrophysics. This ROSES NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, stratospheric balloon, suborbital rocket, and commercial reusable rocket investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years) periods.

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<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={9636473D-602B-F49F-ABDC-5A26F36D08CD}&path=open>

### **Opportunity #13**

#### **ROSES 2010: HyspIRI Preparatory Activities Using Existing Imagery**

**NASA**

**NNH10ZDA001N-HYSPIRI**

**Description:** This NASA Research Announcement (NRA) solicits proposals for supporting basic and applied research and technology across a broad range of Earth and space science program elements relevant to one or more of the following NASA Research Programs: Earth Science, Heliophysics, Planetary Science, and Astrophysics. This ROSES NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, stratospheric balloon, suborbital rocket, and commercial reusable rocket investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years) periods.

**Link to Full Announcement:**

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={9636473D-602B-F49F-ABDC-5A26F36D08CD}&path=open>

#### Opportunity #14

**ROSES 2010: Modeling, Analysis, and Prediction**  
**NASA**  
**NNH10ZDA001N-MAP**

**Description:** This NASA Research Announcement (NRA) solicits proposals for supporting basic and applied research and technology across a broad range of Earth and space science program elements relevant to one or more of the following NASA Research Programs: Earth Science, Heliophysics, Planetary Science, and Astrophysics. This ROSES NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, stratospheric balloon, suborbital rocket, and commercial reusable rocket investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years) periods.

**Link to Full Announcement:**

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={9636473D-602B-F49F-ABDC-5A26F36D08CD}&path=open>

#### Opportunity #15

**ROSES 2010: Origins of Solar Systems**  
**NASA**  
**NNH10ZDA001N-OSS**

**Description:** This ROSES NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, stratospheric balloon, suborbital rocket, and commercial reusable rocket investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years) periods.

**Link to Full Announcement:**

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={9636473D-602B-F49F-ABDC-5A26F36D08CD}&path=open>

### **Opportunity #16**

#### **Pharmacokinetic Research in Pediatric HIV/TB Co-Infection (R01)**

**DHHS – NIH**

**RFA-HD-09-015**

**Description:** This Funding Opportunity Announcement (FOA), issued by the National Institute of Child Health and Human Development (NICHD) and the National Institute of Mental Health (NIMH), encourages Research Project Grant (R01) applications from institutions/organizations that propose to evaluate the pharmacokinetics of anti-tuberculosis (anti-TB) drugs and pharmacokinetic drug interactions between anti-TB drugs and anti-HIV medications, and to potentially provide preliminary data regarding the effect of such pharmacokinetic parameters on the outcome of treatment in children with HIV/TB co-infection. Pediatric research in these areas lags far behind that in adults due to the many challenges surrounding the diagnosis and management of TB disease in children. Research related to the treatment of TB in the context of pediatric HIV/TB co-infection is urgently needed. This FOA will support grants to define appropriate dosing of anti-TB agents in HIV-infected children and that will generate knowledge regarding the optimization of management of TB/HIV co-infection in children, including the management of central nervous system (CNS) involvement with TB through the evaluation of CNS penetration of anti-TB agents in the context of antiretroviral therapy. This FOA will utilize the NIH Research Project Grant (R01) grant mechanism and is issued in parallel with an FOA of identical scientific scope, [RFA HD-09-016](#) that solicits applications under the R21 grant mechanism. The NICHD intends to commit \$1.15 million (total costs), and NIMH intends to commit \$350,000 (total costs) in FY 2010 to support one to three meritorious applications. Awards issued under this FOA are contingent upon the availability of funds and the submission of a sufficient number of meritorious applications. It is expected that requested direct costs will be in the range of \$300,000 to \$400,000 per year for up to 5 years, but awards may be made in excess of that annual amount provided that the scientific rationale is compelling and the costs are fully justified. The ability to make awards will be limited by the overall funding available. 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-HD-09-015.html>

### **Opportunity #17**

#### **Pharmacokinetic Research in Pediatric HIV/TB Co-Infection (R21)**

**DHHS – NIH**

**RFA-HD-09-016**

**Description:** This Funding Opportunity Announcement (FOA), issued by the National Institute of Child Health and Human Development (NICHD) and the National Institute of Mental Health (NIMH), encourages Exploratory/Developmental Research Grant Award (R21) applications from institutions/organizations that propose to evaluate the pharmacokinetics of anti-tuberculosis (anti-TB) drugs and pharmacokinetic drug interactions between anti-TB drugs and anti-HIV medications in children with HIV/TB co-infection. Research in this area lags far behind that in adults due to the many challenges surrounding the diagnosis and management of TB disease in children. Research related to the treatment of TB in the context of pediatric HIV/TB co-infection is urgently needed. This FOA will support investigator-initiated grants to define appropriate dosing of anti-TB agents in HIV-infected children and will generate knowledge leading to the optimization of management of TB/HIV co-infection in children, including the management of central nervous system (CNS) involvement with TB through the evaluation of CNS penetration of anti-TB agents in the context of antiretroviral therapy. This FOA will utilize the NIH Exploratory/Developmental Research Grant (R21) award mechanism and is issued in parallel with an FOA of identical scientific scope, [RFA-HD-09-015](#) that encourages applications under the R01 grant mechanism. The NICHD intends to commit \$250,000 (total costs), and NIMH intends to commit \$150,000 (total costs) in FY 2010 to support one to two meritorious applications. It is expected that requested direct costs will be in the range of \$125,000 to \$150,000 per year for up to 2 years, but awards may be made in excess of that annual amount provided that the scientific rationale is compelling and the costs are fully justified. The ability to make awards will be limited by the overall funding available. The R21 Research Strategy section may not exceed 6 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-HD-09-016.html>

### **Opportunity #18**

#### **MAPGen Knowledge Base (MAPGenKB) and Coordination Center (U01)**

**DHHS – NIH**

**RFA-HL-11-004**

**Description:** The National Heart, Lung, and Blood Institute (NHLBI) encourages grant applications under this Funding Opportunity Announcement (FOA) to develop and implement a Knowledge Base (KB) and Coordinating Center for the Consortium of Cross Organ Mechanism-Associated Phenotypes for Genetic Analyses of Heart, Lung, Blood, and Sleep Diseases (MAPGen for HLBS). This is one of two FOAs for the MAPGen program. The other FOA is for the Research Centers (RCs) of MAPGen and described separately in RFA-HL-11-005. The MAPGenKB will provide logistical and informatics support for the research across all RCs in the MAPGen consortium and synthesize the knowledge from the datasets of the RCs and other sources that are relevant to the goals of the MAPGen consortium. The data and tools generated from this consortium will be made available to the broad scientific community. This FOA will utilize the Cooperative Agreement (U01) award mechanism. Contingent upon the availability of funds and the receipt of a sufficient number of meritorious applications, \$5.5 million will be available to fund 1 award of 5 years duration. Applicants may request direct costs up to \$650,000 annually for 5 years and an additional \$250,000 total cost in years 3 and 4 that will be distributed back to RCs to execute cross-RC collaborative proof of concept and/or mechanistic studies. The U01 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 they are 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-HL-11-004.html>

### **Opportunity #19**

#### **Recovery Act Limited Competition: The NIH Directors ARRA Funded Pathfinder Award to Promote Diversity in the Scientific Workforce (DP4)**

**DHHS – NIH**

**RFA-OD-10-013**

**Description:** This NIH Funding Opportunity Announcement (FOA), supported by funds provided to the NIH under the American Recovery and Reinvestment Act of 2009 (Recovery Act or ARRA), Public Law 111-5, invites applications for the NIH Directors ARRA Pathfinder Award to Promote Diversity in the Scientific Workforce. The NIH recognizes a unique and compelling need to promote diversity in the biomedical, behavioral, clinical and social sciences research workforce. The NIH expects all of its efforts to diversify the workforce to lead to the recruitment of the most talented researchers from all groups; to improve the quality of the educational and training environment; to balance and broaden the perspective in setting research priorities; to improve the ability to recruit subjects from diverse backgrounds into clinical research protocols; and to improve the Nation's capacity to address and eliminate health disparities. This new FOA introduces a new research grant program to encourage exceptionally creative individual scientists to develop highly innovative and possibly transforming approaches for promoting diversity within the biomedical research workforce. To be considered highly innovative, the proposed research must reflect ideas substantially different from those already being pursued or it must apply existing research designs in new and innovative ways to unambiguously identify factors that will improve the retention of students, postdocs and faculty from diverse backgrounds. Awardees must commit a major portion (generally 30% or more) of their research effort to activities supported by the Directors Pathfinder Award and the proposed research must be endorsed by the highest levels of institutional management. This FOA will utilize the DP4 grant mechanism. NIH intends to commit approximately \$10 million under this FOA. We anticipate that up to 5 awards will be made in fiscal year 2010, pending the number and quality of applications and availability of funds.

**Link to Full Announcement:**

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