he NIH encourages institutions that seek to engage undergraduate students in innovative mentored research training programs to submit applications for cooperative agreement awards through the NIH Building Infrastructure Leading to Diversity (BUILD) initiative, one of three new Common Fund initiatives that together aim to enhance diversity in the biomedical, behavioral, clinical, and social sciences research workforce. Addressing a major leakage point in the research workforce pipeline, BUILD awards are intended to support the design and implementation of innovative programs, strategies and approaches to transform undergraduate research training and mentorship. BUILD awards will also support institutional and faculty development to further strengthen undergraduate research training environments. BUILD awards are intended to stimulate creative new approaches for training undergraduate students with a broad range of biomedical and behavioral research interests. Accordingly, BUILD institutions are expected to cast a wide net for student participants and offer innovative research training and mentorship activities across a broad range of relevant disciplines. Applicant institutions may, at their discretion, partner with other institutions to broaden the potential pool of participating students and maximize opportunities for research training and faculty and staff development.

Keywords: ethics, bioethics, human subjects protection

Research on Ethical Issues in Biomedical, Social and Behavioral Research


This funding opportunity announcement and two related announcements (R03, PA-11-181; R21, PA-11-182) comprise the fourth set in a series of consecutive FOAs published by NIH since 1999 to encourage research on ethical issues related to the conduct of biomedical, social and behavioral research within the NIH mission. The prior FOA’s in this series focused specifically on ethical issues related to the conduct of human subjects research. This set of announcements broadens that focus to include ethical issues related to new and emerging biomedical technologies. With continuing advances in biomedical, social, and behavioral sciences and technologies and the diversification and expansion of research settings and subjects, researchers face evolving bioethical challenges related to the conduct of research, the management of related data and information, and
the application of findings. For example, the NIH has a vested interest in promoting research at the cutting edge of science and technology which has potential benefits, yet risks may be unknown and ethical guidance may be lacking. Research is needed to anticipate the evolution of bioethical issues, to ensure NIH supported research is conducted in the most ethical manner possible, and to inform policy discussions that may emerge from NIH-supported research.

**Health Behavior**

**Keywords:** marijuana policy, risk behavior, policy-related health outcomes  
National Institute on Drug Abuse  
Public Health Impact of the Changing Policy/Legal Environment for Marijuana (R01)  
**Deadline:** Standard deadlines  
This initiative encourages research on the impact of changing marijuana policies and laws on public health outcomes, including marijuana exposure among children, adolescents, and adults; other licit and illicit drug use; education and professional achievement; social development; risky behaviors (e.g., drugged driving); mental health; HIV, etc.

**Keywords:** disparities, children, health promotion, comparative effectiveness  
National Institutes of Health  
Reducing Health Disparities Among Minority and Underserved Children  
**Deadline:** Standard deadlines  
This initiative encourages research that targets the reduction of health disparities among children. Specific targeted areas of research include biobehavioral studies that incorporate multiple factors that influence child health disparities such as biological (e.g., genetics, cellular, organ systems), lifestyle factors, environmental (e.g., physical and family environments) social (e.g., peers), economic, institutional, and cultural and family influences; studies that target the specific health promotion needs of children with a known health condition and/or disability; and studies that test and evaluate the comparative effectiveness of health promotion interventions conducted in traditional and nontraditional settings.

**Health Management and Policy**

**Keywords:** workforce modeling, scientific workforce development  
National Institutes of Health  
Modeling the Scientific Workforce (U01)  
**Letter of Intent Due:** January 4, 2014  
**Proposal Due:** February 4, 2014  
This FOA solicits cooperative agreement applications that propose to develop computational models for better understanding of the dynamics of the scientific workforce in the United States.
These models may be used to inform program development and management, identify questions that need additional research, and guide the collection and analysis of the data to answer these questions.

**Keywords:** prescription drug policy, policy evaluation
**Centers for Disease Control and Prevention**
**Research to Prevent Prescription Drug Overdoses**
http://www.grants.gov/view-opportunity.html?oppId=249388
**Letter of Intent Due:** February 14, 2014
**Proposal Due:** March 19, 2014
The purpose of this FOA is to conduct research to assess the impact of policies and administrative practices on the inappropriate prescribing or abuse of prescription opioid analgesics. This funding will support projects that: (1) evaluate the impact of current legislation that requires state oversight of pain management clinics or sets out registration, licensure, or ownership requirements for such clinics, or (2) evaluate the impact of formulary management and benefit design strategies used by public or private insurers and pharmacy benefit managers (e.g., quantity limits, step therapies, preferred drug lists, prior authorization, tiered formularies, and drug utilization review programs) that are applicable to all beneficiaries, not just those identified as abusing drugs or engaged in fraudulent activity.

**Keywords:** violence-related injury prevention
**Centers for Disease Control and Prevention**
**Research Grants for Preventing Violence and Violence Related Injury**
http://www.grants.gov/view-opportunity.html?oppId=249242
**Letter of Intent Due:** February 14, 2014
**Proposal Due:** March 19, 2014
The purposes of the NCIPC extramural violence prevention research program are to: 1. Build the scientific base for the prevention of violence by helping to expand and advance our understanding of the primary prevention of interpersonal violence. 2. Encourage professionals from a wide spectrum of disciplines of epidemiology, behavioral and social sciences, medicine, biostatistics, public health, health economics, law, and criminal justice to perform research in order to prevent violence more effectively. 3. Encourage investigators to propose research that involves the development and testing of primary prevention strategies, programs and policies designed to prevent interpersonal violence and reduce violence-related outcomes as well as dissemination, implementation, and translation research to enhance the adoption and maintenance of effective strategies among individuals, organizations, or communities.

**Keywords:** motor vehicle injury prevention, program development and/or evaluation
**Centers for Disease Control and Prevention**
**Motor Vehicle Injury Prevention: Evaluation of Increased Nighttime Enforcement of Seatbelt Use**
http://www.grants.gov/view-opportunity.html?oppId=249391
Letter of Intent Due: February 14, 2014
Proposal Due: March 19, 2014

The purpose of this research is to determine the effects of substantially increasing nighttime seatbelt use enforcement, combined with strong and targeted publicity components and community involvement, on nighttime seatbelt use and morbidity and mortality due to motor vehicle crashes. Projects may be either a) program development accompanied by piloting the program and a pilot evaluation or b) evaluation of an existing program already implemented in a state or local municipalities.

Keywords: marijuana policy, risk behavior, policy-related health outcomes

National Institute on Drug Abuse
Public Health Impact of the Changing Policy/Legal Environment for Marijuana (R01)
Deadline: Standard deadlines

This initiative encourages research on the impact of changing marijuana policies and laws on public health outcomes, including marijuana exposure among children, adolescents, and adults; other licit and illicit drug use; education and professional achievement; social development; risky behaviors (e.g., drugged driving); mental health; HIV, etc.

Preventive Medicine

Keywords: prescription drug policy, policy evaluation

Centers for Disease Control and Prevention
Research to Prevent Prescription Drug Overdoses
http://www.grants.gov/view-opportunity.html?oppId=249388
Letter of Intent Due: February 14, 2014
Proposal Due: March 19, 2014

The purpose of this FOA is to conduct research to assess the impact of policies and administrative practices on the inappropriate prescribing or abuse of prescription opioid analgesics. This funding will support projects that: (1) evaluate the impact of current legislation that requires state oversight of pain management clinics or sets out registration, licensure, or ownership requirements for such clinics, or (2) evaluate the impact of formulary management and benefit design strategies used by public or private insurers and pharmacy benefit managers (e.g., quantity limits, step therapies, preferred drug lists, prior authorization, tiered formularies, and drug utilization review programs) that are applicable to all beneficiaries, not just those identified as abusing drugs or engaged in fraudulent activity.

Keywords: violence-related injury prevention

Centers for Disease Control and Prevention
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**Keywords:** motor vehicle injury prevention, program development and/or evaluation

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**Biostatistics**

**Keywords:** secondary analyses, epigenomics

**National Institutes of Health**

**Computational Analyses Exploiting Reference Epigenomic Maps (R01)**


**Letter of Intent Due: February 3, 2014**

**Proposal Due: March 3, 2014**

This FOA, part of the NIH Common Fund program in Epigenomics, seeks applications from investigators proposing computational analyses that will take advantage of the publicly available reference epigenomic maps generated as part of the Roadmap Epigenomics Program. A primary focus of the Roadmap Epigenomics Program has been the development of reference epigenomic maps derived from a variety of human primary cells and tissues, including pluripotent cell types and in vitro differentiated forms, highly purified primary cells, and a range of fetal and adult tissues. These datasets have been deposited into public databases.
http://www.ncbi.nlm.nih.gov/geo/roadmap/epigenomics/) to facilitate use by the larger scientific community. Since the inception of the program in 2008, over 3000 genome-wide epigenetic data sets have been generated, spanning over 190 human cell and tissue types. These data sets include maps of histone modifications derived from ChIP-seq analyses, methylation maps at base pair resolution, gene expression analyses by RNA-seq or microarray hybridization, and DNaseI hypersensitivity maps. Although there have been a great deal of data generated by the Roadmap Epigenomics Mapping Consortium thus far, a more focused effort is needed in order for the rich resource generated by the consortium to become maximally useful to the community. One key remaining scientific opportunity is to enable investigators to carry out analyses of reference epigenomics data generated by the Roadmap Epigenomics Mapping Consortium, including integration of these data with other novel public or investigator-generated data sets.

**Environmental Health**

**Keywords:** water reuse, wastewater application, health impacts

*Environmental Protection Agency*

**Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices**


**Proposal Due: February 18, 2014**

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications to conduct research on and demonstration of human and ecological impacts of treated wastewater applications (reclaimed water and wastewater reuse), and water conservation practices including the use of non-traditional water sources as well as more comprehensive long-term management and availability of water resources.

**Keywords:** ecological evaluation, manufactured chemical impacts

*Environmental Protection Agency*

**Systems-Based Research for Evaluating Ecological Impacts of Manufactured Chemicals**


**Proposal Due: March 4, 2014**

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications focusing on integrated, transdisciplinary research that would advance scientific understanding of potential for impacts to ecosystem wellbeing associated with the use of manufactured chemicals. Specifically, the RFA would solicit proposals for systems-based research to develop and apply innovative metrics and modeling approaches to improve evaluation of ecological resilience and impact analyses, and to support environmental sustainability. Successful proposals will translate emerging and advanced methods, data, and computational tools to address complexity of these systems and distill drivers of adverse outcomes to ecological organisms and populations.
Biomedical Informatics

Keywords: workforce modeling, scientific workforce development
National Institutes of Health
Modeling the Scientific Workforce (U01)
Letter of Intent Due: January 4, 2014
Proposal Due: February 4, 2014
This FOA solicits cooperative agreement applications that propose to develop computational models for better understanding of the dynamics of the scientific workforce in the United States. These models may be used to inform program development and management, identify questions that need additional research, and guide the collection and analysis of the data to answer these questions.

Keywords: data resource development, analytic technique development, interdisciplinary
National Science Foundation
Building Community and Capacity for Data-Intensive Research in the Social, Behavioral, and Economic Sciences and in Education and Human Resources
Proposal Due: March 3, 2014
As part of NSF’s Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21) activity, the Directorate for Social, Behavioral, and Economic Sciences (SBE) and the Directorate for Education and Human Resources (EHR) seek to enable research communities to develop visions, teams, and capabilities dedicated to creating new, large-scale, next-generation data resources and relevant analytic techniques to advance fundamental research for the SBE and EHR areas of research. Successful proposals will outline activities that will have significant impacts across multiple fields by enabling new types of data-intensive research. Investigators should think broadly and create a vision that extends intellectually across multiple disciplines and that includes—but is not necessarily limited to—the SBE or EHR areas of research.