FIU | Research ORED Communicator

NIAAA's Judith Arroyo visits FIU

By Maureen Pelham

February 2015 Issue

The late January visit of a senior administrator from the Office of the Director at the National Institute of Alcohol Abuse and Alcoholism (NIAAA) generated excitement among FIU faculty interested in alcohol use, minority health and health disparities. Over the course of two days, Judith A. Arroyo, Ph.D., Minority Health and Health Disparities Coordinator, NIAAA, met with small groups of FIU faculty, providing focus to their research ideas in the context of NIAAA's research interests and priorities, and offering technical assistance and warm encouragement. Her visit culminated in a presentation on NIAAA/NIH Research Opportunities in which she outlined NIAAA's mission, reviewed the most recent incidence and prevalence data on alcohol use disorders by race and ethnicity, and shared strategies for seeking grants from NIAAA, specifically, and NIH, more generally.

Dr. Arroyo's visit enabled FIU faculty to showcase their research projects and plans, glean critical information about NIAAA's trans-divisional research emphasis and resource development teams, and learn more about NIAAA's newest funding priorities.

Dr. Arroyo's passion for supporting early career investigators was evident throughout her visit. In meetings with FIU faculty and during her presentation, she dispensed excellent advice for pre-proposal preparation and identified critical steps in the NIH grant writing process. Early career investigators were also informed about specific NIH funding mechanisms designed to afford the additional research training often needed for success with R01 applications. Research supplements that promote diversity in health-related research were also discussed. Copies of Dr. Arroyo's slides are available to all interested FIU faculty (contact mpelham@fiu.edu).

Dr. Arroyo is exceptionally well qualified to guide research scientists with interests in alcohol use, minority health and health disparities. She earned her Ph.D. in Clinical Psychology at the University of California at Los Angeles in 1989, where she was both an American Psychological Association Minority Fellow and a Danforth Fellow. While on the faculty at the University of New Mexico, she conducted research on Hispanic mental health and Hispanic alcoholism treatment. Her areas of expertise include alcohol prevention and treatment interventions and acculturation/bicultural influences on substance use. Dr. Arroyo joined NIAAA in 2002.

Upcoming Events

February 2015

- **February 6, 2015, 11 am to 12:00 pm**, PG5 #155, **"***Ribonucleotides in DNA: Origins, Repair and Consequences,*" a lecture by Thomas Kunkel from the NIH/NIEHS, part of the Chemistry and Biochemistry Seminar Series, co-sponsored by BSI and hosted by Yuan Liu
- **February 11, 2015, 9:30 to 11:00 am**, MARC Pavilion, "*How to collaborate with your Technology Transfer Office to disclose your idea to maximize its future patent protection.*" The presentation will provide faculty and students with perspectives and tips on preparing, filing and prosecuting patent applications. Jeremy D. Protas from Marshall, Gerstein & Borun LLP will be the presenter followed by a Q&A session.
- **February 12, 3:30 to 4:45 pm,** AHC4, Room 402, *"Health Disparities Workshop"* with Sergio Aguilar-Gaxiola. Co-sponsored by the Faculty Mentor Program and Office of Research and Economic Development. Specific details will be forthcoming for this workshop and available at http://mentor.fiu.edu
- **February 19, 12:00 to 1:00 pm,** location TBA. "*Functional Coupling of Duplex Translocation to DNA Cleavage in A Type I Restriction Enzyme"* presented by Rüdiger Ettrich, Professor and Director of the Institute of Nanobiology and Structural Biology, Academy of Sciences of the Czech Republic. Sponsored by the Biomolecular Sciences Institute.
- **February 27, 3 to 4:00 pm**, WC-130, "*Genome Editing Approaches*," by Matthew DeGennaro. Sponsored by the Biomolecular Sciences Institute.

March 2015

- **March 2, 3:30 to 4:45 pm,** AHC4 #402**, "**Workshop on Aging" presented by William Vega.
  - Co-sponsored by the Faculty Mentor Program and the Office of Research and Economic Development. Specific details will be forthcoming for this workshop and available at http://mentor.fiu.edu
- **March 6, 11 am to 12:00 pm,** PG5, Room 155. Dr. Chia-Ching Chang, from National Chiao Tung University in Taiwan, will host a lecture. Co-sponsored by the Biomolecular Sciences Institute and the Chemistry Departmental Series. Hosted by Dr. Fenfei Leng.
- **March 30, 3:30 to 4:45 pm,** AHC4 #402, "*Informatics Workshop"* with Yuk-Ching Tse-Dinh and Giri Narasimhan. Co-sponsored by the Faculty Mentor Program and the Office of Research and Economic Development. Specific details will be forthcoming for this workshop and available at http://mentor.fiu.edu

Awards Received-November 2014

Florida International University researchers were awarded $3,256,567 in November 2014. Listed below is a summary of awards received for the month of November.

PI: Joann Mann Arnowitz
JEWISH MUSEUM OF FLORIDA-FIU
Award Action Type: Initial
AWARDING SPONSOR: Miami-Dade County Cultural Affairs
TITLE: JMOF-FIU Major Cultural Institutions (MCI) FY 14-15 **AWARD:** $ 90,000

PI: Shekhar Bhansali
ELEC AND COMPUTER ENG
Award Action Type: Continuation
AWARDING SPONSOR: North Carolina State University
TITLE: Advanced Self-Powered Systems of Integrated Sensor Technologies (ASSIST) **AWARD:** $ 262,214

PI: Shekhar Bhansali
ELEC AND COMPUTER ENG
Award Action Type: Continuation
AWARDING SPONSOR: North Carolina State University
TITLE: ASSIST Participant Payments **AWARD:** $ 43,400

PI: Henry O Briceno
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: Environmental Protection Agency
TITLE: Water Quality Monitoring for the Florida Keys National Marine Sanctuary **AWARD:** $ 425,000

PI: Deron Burkepile
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: Oregon State University
TITLE: Evaluating the mechanisms that drive nutrient-induced coral disease **AWARD:** $ 7,063

PI: Alexander D Casas
UNIVERSITY POLICE
Award Action Type: Initial
AWARDING SPONSOR: National Oceanic and Atmospheric Admin
TITLE: Guard Services for the National Hurricane Center **AWARD:** $ 111,878

PI: Zhe Cheng
MECHANICAL AND MAT ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: National Aeronautics & Space Administrat
TITLE: Environmental Friendly Processing of Low Cost Flexible Copper **AWARD:** $ 25,000

PI: Maria Donoso
EARTH AND ENVIRONMENT
Award Action Type: Increase
AWARDING SPONSOR: US Agency for International Development
TITLE: Integrated Water Resource Management **AWARD:** $ 110,825

PI: George S Dulikravich
MECHANICAL AND MAT ENGINEERING
Award Action Type: Continuation
AWARDING SPONSOR: Air Force Office of Scientific Research
TITLE: Direct and Inverse Design Optimization of Magnetic Alloys **AWARD:** $ 224,978

PI: Nazira El-Hage
COM IMMUNOLOGY
Award Action Type: Initial
AWARDING SPONSOR: National Institutes of Health
TITLE: Role of Autophagy in Microglia-induced NeuroAIDS in Substance **AWARD:** $ 255,200

PI: Francisco Alberto Fernandez Lima
BIOMOLECULAR SCIENCE INSTITUTE
Award Action Type: Initial
AWARDING SPONSOR: Leidos Biomedical Research Inc
TITLE: Evaluation of gas-phase ion mobility separations for higher **AWARD:** $ 90,000

PI: Mark Alan Finlayson
COMPUTER INFO SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: University of California Los Angeles
TITLE: Narratives in the Informational Patient Society and their Association **AWARD:** $ 65,000

PI: Ronald Philip Fisher
PSYCHOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of Texas El Paso
TITLE: High Value Detainee Interrogation Group (HIG): Intelligence Interviewing **AWARD:** $ 29,927

PI: Brian Fonseca
ARC APPLIED RESEARCH CENTER
Award Action Type: Pre-Award
AWARDING SPONSOR: CACI International Inc
TITLE: FIU-SOUTHCOM Academic Roundtable Series/ Public Opinion Analysis **AWARD:** $ 18,000

PI: Karen S Fuller
MUSIC
Award Action Type: Increase
AWARDING SPONSOR: Miami-Dade County Cultural Affairs
TITLE: FIU School of Music Concert Season **AWARD:** $ 10,000

PI: Cheng-Tin Gan
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: URS Corporation
TITLE: FSUTMS Portal Improvements and Maintenance **AWARD:** $ 58,149

PI: Mohammed A Hadi
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: URS Corporation
TITLE: FITSEVAL Testing and Utilization Support **AWARD:** $ 13,912

PI: Mohammed A Hadi
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Transportation
TITLE: Framework for Multi-Resolution Analyses of Advanced Traffic **AWARD:** $ 300,000

PI: Michelle M Hospital
SISH
Award Action Type: Pre-Award
AWARDING SPONSOR: Pennsylvania State University
TITLE: A Longitudinal Study of Parent Communication with College Students **AWARD:** $ 21,065

PI: Chengxian Lin
MECHANICAL AND MAT ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: University of Florida
TITLE: Solar Energy Technologies: Fundamentals and Applications in Buildings **AWARD:** $ 65,968

PI: Christine Lisetti
COMPUTER INFO SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: CHS: Small: Advanced Design Principles for Computer Simulated Agents **AWARD:** $ 148,680

PI: Yuan Liu
CHEMISTRY
Award Action Type: Continuation
AWARDING SPONSOR: National Institutes of Health
TITLE: Trinucleotide Repeat Instability via DNA Damage and Repair **AWARD:** $ 288,045

PI: Alexander M Mebel
CHEMISTRY
Award Action Type: Initial
AWARDING SPONSOR: University of Hawaii
TITLE: A Combined Experimental and Theoretical Study on the Unimolecular Decomposition of Hydrocarbon Surrogates Relevant to JP-8 Jet Fuel **AWARD:** $ 17,295

PI: Eliza L Nelson
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: San Diego University
TITLE: Development of MacArthur-Bates Forms and Norms for Children **AWARD:** $ 1,100

PI: Maria Olenick
NURSING FEP BBC
Award Action Type: Pre-Award
AWARDING SPONSOR: U.S. Department of Veterans Affairs
TITLE: VA Nursing Academic Partnership Program (VANAP) **AWARD:** $ 17,475

PI: Rene M Price
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: South Florida Water Management District
TITLE: LILA: Phase V: Loxahatchee Impoundment Landscape Assessment **AWARD:** $ 28,141

PI: Rene M Price
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: National Park Service
TITLE: Assessment of water and constituent transport in the L31N canal **AWARD:** $ 50,000

PI: Michael S Ross
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: South Florida Water Management District
TITLE: LILA: Phase V: Loxahatchee Impoundment Landscape Assessment **AWARD:** $ 48,255

PI: Ernest G Simms
STUDENT AFFAIRS VICE PRES OFF
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Department of Education
TITLE: McNair 2012-2017 **AWARD:** $ 230,996

PI: Ping Zhu
INTERNATIONAL HURRICANE CENTER
Award Action Type: Initial
AWARDING SPONSOR: National Oceanic and Atmospheric Admin
TITLE: Understanding the impact of sub-grid scale physics in HWRF **AWARD:** $ 199,000

Awards Received-December 2014

Florida International University researchers were awarded $6,564,280 in December 2014. Below is a summary.

PI: Alexander Agoulnik
COM HUMAN AND MOL GENETICS
Award Action Type: Continuation
AWARDING SPONSOR: National Institutes of Health
TITLE: Small molecule antagonists of relaxin receptor **AWARD:** $ 288,513

PI: Daniel Matthew Blaeuer
COMMUNICATION ARTS
Award Action Type: Initial
AWARDING SPONSOR: Kettering Foundation
TITLE: Everglades Restoration and Public Meeting **AWARD:** $ 12,000

PI: Kevin Mershon Boswell
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: Nova Southeastern University
TITLE: DEEPEND: Deep-Pelagic Nekton Dynamics of the Gulf of Mexico **AWARD:** $ 84,000

PI: Ellen Leslie Brown
NURSING PHD PROGRAM
Award Action Type: Supplemental
AWARDING SPONSOR: University of Miami
TITLE: Miami Area Geriatric Education Centers (MAGEC) **AWARD:** $ 4,000

PI: Erika K Coles
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: Nova Southeastern University
TITLE: Project RISE **AWARD:** $ 17,000

PI: Todd Alan Crowl
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: University of Puerto Rico
TITLE: LTER 5: Understanding Environmental Change in Northeast Puerto Rico **AWARD:** $ 75,000

PI: Maria C Donoso
EARTH AND ENVIRONMENT
Award Action Type: Increase
AWARDING SPONSOR: US Agency for International Development
TITLE: West Africa Water Supply-BF **AWARD:** $2,588,795

PI: Maria C Donoso
EARTH AND ENVIRONMENT
Award Action Type: Increase
AWARDING SPONSOR: US Agency for International Development
TITLE: West Africa Water Supply-Ghana **AWARD:** $1,096,112

PI: Ronald Philip Fisher
PSYCHOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of Texas El Paso
TITLE: High Value Detainee Interrogation Group (HIG): **AWARD:** $141,374

PI: Brian Fonseca
ARC APPLIED RESEARCH CENTER
Award Action Type: Increase
AWARDING SPONSOR: CACI International Inc
TITLE: FIU-SOUTHCOM Academic Roundtable Series/ Public Opinion Analysis **AWARD:** $94,500

PI: Zhaohui J Fu
LIBRARY OPERATIONS
Award Action Type: Initial
AWARDING SPONSOR: City of Coral Gables
TITLE: Coral Gables Virtual History Phase II **AWARD:** $51,000

PI: Anibal Gutierrez Jr.
PSYCHOLOGY
Award Action Type: Continuation
AWARDING SPONSOR: University of Miami
TITLE: Advancing Social-Communication and Play (ASAP) **AWARD:** $19,428

PI: Shahid Hamid
INTERNATIONAL HURRICANE CENTER
Award Action Type: Continuation
AWARDING SPONSOR: State Board Administration of Florida
TITLE: Florida Hurricane Catastrophe Fund Section I Ratemaking **AWARD:** $ 8,040

PI: Gladys E Ibanez
EPIDEMIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of Delaware
TITLE: DVD-based HIV/HCV Intervention for Drug-Involved Latino Criminal Justice Clients **AWARD:** $ 28,231

PI: Maria D Ilcheva
METROPOLITAN CENTER
Award Action Type: Initial
AWARDING SPONSOR: Sant La Haitian Neighborhood Center
TITLE: Report on the Haitian Community in Miami-Dade **AWARD:** $ 9,324

PI: Jessica Klemfuss
PSYCHOLOGY
Award Action Type: Initial
AWARDING SPONSOR: American Psychology Law Society
TITLE: Facilitating children's event reporting and emotion regulation after stress **AWARD:** $ 5,000

PI: Chengxian Lin
MECHANICAL AND MAT ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: Gas Technology Institute
TITLE: Simultaneous Waste Heat and Water Recovery from Power Plant **AWARD:** $ 60,000

PI: Francisco Mora
LATIN AMERICAN AND CARIB CTR
Award Action Type: Initial
AWARDING SPONSOR: U.S. Department of Education
TITLE: LACC National Resource Centers (NRC) and Foreign Language **AWARD:** $ 180,720

PI: Mark Benjamin Padilla
LATIN AMERICAN AND CARIB CTR
Award Action Type: Increase
AWARDING SPONSOR: National Institute on Drug Abuse
TITLE: Migration, Tourism and the HIV-drug use Syndemic in the **AWARD:** $ 60,000

PI: William E Pelham Jr
CENTER FOR CHILDREN AND FAM
Award Action Type: Continuation
AWARDING SPONSOR: University of Pittsburgh
TITLE: The Development of Alcohol Use and Abuse in ADHD Adolescents **AWARD:** $ 162,421

PI: William E Pelham Jr
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: University of Pittsburgh
TITLE: Neural Correlates of symptoms and functioning in young adults **AWARD:** $ 35,458

PI: Sean Antonio Prospect
COE COMMUNITY ENGAGEMENT
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Education
TITLE: Project PRIDE (FIU After School All-Stars) **AWARD:** $ 288,000

PI: Sean Antonio Prospect
COE COMMUNITY ENGAGEMENT
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Education
TITLE: Project HOPE (FIU After-School All-Stars program) **AWARD:** $ 295,290

PI: Sean Antonio Prospect
COE COMMUNITY ENGAGEMENT
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Education
TITLE: Project PANTHER (FIU After-School All-Stars) **AWARD:** $ 367,200

PI: Sofia F Santiesteban
COLLEGE ACCESS
Award Action Type: Initial
AWARDING SPONSOR: College Board Florida Partnership
TITLE: FIU 2015 College Board Florida Partnership Expanded Opportunity Grant **AWARD:** $ 15,000

PI: Juan Pablo Sarmiento
EXTREME EVENTS RESEARCH CENTER
Award Action Type: Increase
AWARDING SPONSOR: INACAP
TITLE: Pasantia on Disaster Risk Reduction **AWARD:** $ 4,550

PI: Arif Islam Sarwat
ELEC AND COMPUTER ENG
Award Action Type: Continuation
AWARDING SPONSOR: Florida Power and Light
TITLE: Smart Grid: Game Changer for Lifestyle Elevation **AWARD:** $ 70,000

PI: Shimelis Gebriye Setegn
ENVIR AND OCCUPATIONAL HEALTH
Award Action Type: Initial
AWARDING SPONSOR: University of Puerto Rico
TITLE: Human Impacts to Coastal Ecosystems in Puerto Rico (HICE-PR) **AWARD:** $ 37,267

PI: Ibrahim N Tansel
MECHANICAL AND MAT ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: U.S. Air Force Research Laboratory
TITLE: Florida International University (FIU) AFRL/RW Collaboration **AWARD:** $ 75,000

PI: Wei Wang
MATH AND STATISTICAL SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Efficient high order methods for two multi-scale problems **AWARD:** $ 126,125

PI: Ioannis Zisis
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Transportation
TITLE: Development of a Test Method for Assessing the Performance **AWARD:** $ 264,932

Limited Submission Funding Opportunities

Below are limited submission opportunities with upcoming internal deadlines:

Agency	Program	Institutional Submission Limits	Internal Deadline	Agency Deadline
NIH	**Team-Based Design in Biomedical Engineering Education (R25)** (PAR-13-111)	One application per institution	3/14/2015	Letter of Intent Due: 4/13/2015 Application Due: 5/13/2015
Oak Ridge Associated Universities (ORAU)	ORAU Travel Grants: Faculty members can request up to $800 to facilitate travel to collaborate with researchers at Oak Ridge National Laboratory, Y-12 National Security Complex, ORAU labs or work sites, or another ORAU institution.	Only two proposals per fiscal year. Contact Maureen Pelham (**mpelham@fiu.edu**) for additional information before applying.	Open	Prelim deadline: Open Agency Deadline: 9/30/2015

Please visit our website at: http://research.fiu.edu/funding/pages/limited-submissions.html to review our monthly limited submissions or for further instructions on how to prepare and/or submit your limited submission application.

Funding Opportunities

Department of Defense

Pre-Announcement for Funding Opportunity for Joint Program Committee Medical Simulation and Information Sciences Research Program (UNCLASSIFIED)
Funding Opportunity Number: TBD February 2015
Pre-Application Deadline: TBD February 2015
Application Deadline: TBD February 2015
Description: On behalf of the Defense Health Agency, Research, Development, and Acquisition (DHA RDA) Directorate, the JPC-1/MSIS intends to release an FY15 Joint En Route Care Training Initiative Program Announcement. The JPC-1/MSIS operates in partnership with the DoD Congressionally Directed Medical Research Programs (CDMRP). CDMRP is the execution management for this Program Announcement and will provide management support for subsequent awards. The JPC-1/MSIS is providing the information in this pre-announcement to allow investigators time to plan and develop applications. The FY15 DMRDP JPC-1/MSIS Joint En Route Care Training Initiative Award Program Announcement and General Application Instructions are anticipated to be posted on the Grants.gov website in February 2015. Pre-application and application deadlines will be available when the Program Announcement is released. This pre-announcement should not be construed as an obligation by the government. Funding of applications is contingent upon the availability of federal funds for this program. http://cdmrp.army.mil/pubs/press/2015/15dmrdppreann_jpc1.shtml

Pre-Announcement for Funding Opportunity for Congressionally Directed Medical Research Programs Military Operational Medicine Research Program/Joint Program Committee-5 Alcohol and Substance Abuse Research Program Consortium
Funding Opportunity Number: W81XWH-14-ASARP-CA
Pre-Application Deadline: February 26, 2015
Application Deadline: March 5, 2015
Description: Applications to the Fiscal Year 2014 (FY14) Alcohol and Substance Abuse Research Program (ASARP) are being solicited for the Defense Health Agency, Research, Development, and Acquisition (DHA RDA) Directorate, by the U.S. Army Medical Research Acquisition Activity (USAMRAA). The goal of the ASARP is to identify and develop new medications to improve treatment outcomes for alcohol and substance use disorders (ASUD), especially as related to traumatic brain injury (TBI) and post-traumatic stress disorder (PTSD). The program encourages the use of collaborative, multidisciplinary approaches to accelerate the translation of basic research into clinical trial studies. All applications must conform to the final Program Announcements and General Application Instructions that are available for electronic downloading from the Grants.gov website. A listing of all USAMRMC funding opportunities can be obtained on the Grants.gov website by performing a basic search using CFDA Number 12.420. http://cdmrp.army.mil/funding/pa/14asarpca_pa.pdf

Methods and Technologies for Personalized Learning, Modeling and Assessment
Funding Opportunity Number: BAA-RQKH-2015-0001
Application Deadline: November 17, 2019
Description: The Air Force Research Laboratories and 711th Human Performance Wing are soliciting white papers (and later technical and cost proposals) on programs that deal with science and technology development, experimentation, and demonstration in the areas of improving and personalizing individual, team, and larger group instructional training methods for airmen. The approaches relate to competency definition and requirements analysis, training and rehearsal strategies, and models and environments that support learning and proficiency achievement and sustainment during non-practice of under novel contexts. This effort focuses on measuring, diagnosing, and modeling airman expertise and performance, rapid development of models of airman cognition and specifying and validating, both empirically and practically, new classes of synthetic, computer-generated agents and teammates. http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense

Fiscal Year 2015 Office of Naval Research Young Investigator Program (YIP)
Funding Opportunity Number: ONR-15-FOA-0006
Application Deadline: March 4, 2015

Description: The Office of Naval Research (ONR) is interested in receiving proposals for its Young Investigator Program (YIP). ONR's Young Investigator Program (YIP) seeks to identify and support academic scientists and engineers who are in their first or second full-time tenure-track or tenure-track-equivalent academic appointment, have begun their first appointment on or after November 1, 2009, and who show exceptional promise for doing creative research. The objectives of this program are to attract outstanding faculty members of Institutions of Higher Education (hereafter also called "universities") to the Department of the Navy's research program, to support their research, and to encourage their teaching and research careers. http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense

Accelerating the Development of Small Unit Decision Making (ADSUDM)
Funding Opportunity Number: ONR-BAA-15-0008
Application Deadline: March 31, 2015 please see BAA for whitepaper due dates
Description: All responsible sources from academia and industry may submit proposals under this BAA. University Affiliated Research Centers (UARC) are eligible to submit proposals under this BAA unless precluded from doing so by their Department of Defense UARC contracts. Teams are also encouraged and may submit proposals in any and all areas. However, Offerors must be willing to cooperate and exchange software, data and other information in an integrated program with other contractors, as well as with system integrators, selected by ONR. Some topics cover export controlled technologies. Research in these areas is limited to "U.S. persons" as defined in the International Traffic in Arms Regulations (ITAR) - 22 CFR ¤ 1201.1 et seq.
http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense

Fiscal Year (FY) 2015 Department of Defense Multidisciplinary Research Program of the University Research Initiative-Army Application
Funding Opportunity Number: ONRFOA14-012
Application Deadline: February 23, 2015
Description: The DoD Multidisciplinary University Research Initiative (MURI), one element of the University Research Initiative (URI), is sponsored by the DoD research offices: the Office of Naval Research (ONR), the Army Research Office (ARO), and the Air Force Office of Scientific Research (AFOSR) (hereafter collectively referred to as "DoD agencies").The MURI program supports basic research in science and engineering at U.S. institutions of higher education (hereafter referred to as "universities") that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest to the DoD. As defined by the DoD, basic research is systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind. It includes all scientific study and experimentation directed toward increasing fundamental knowledge and understanding in those fields of the physical, engineering, environmental, and life sciences related to long-term national security needs. It is farsighted high payoff research that provides the basis for technological progress. http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense

Materials for Transduction (MATRIX)
Funding Opportunity Number: DARPA-BAA-15-19
Application Deadline: April 2, 2015
Description: The Materials for Transduction (MATRIX) program in DARPA's Defense Sciences Office (DSO) is seeking innovative ideas and novel approaches to achieve revolutionary transductional devices and capabilities using materials with energy conversion capabilities and/or strongly correlated properties.
http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense

Near Zero Power RF and Sensor Operations
Funding Opportunity Number: DARPA-BAA-15-14
Application Deadline: April 23, 2015
Description: DARPA seeks to transform the energy efficiency of unattended sensors through elimination or substantial reduction of the stand-by power consumed by the sensors while they await a signature of interest. The improved energy efficiency is expected to result in an increase in the sensor mission lifetime from months to years. The Near Zero Power RF and Sensor Operations (N-ZERO) program aims to create intelligent sensors that can

process and detect RF and physical sensor signatures, consume less than 10 nW of power, and attain a low false alarm rate of 1 per hour or better in an urban environment. See the full DARPA-BAA-15-14 document attached. http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense

Department of Education

OSERS: OSEP: Training and Information for Parents of Children with Disabilities: Parent Training and Information Centers
Funding Opportunity Number: ED-GRANTS-121114-001
Deadline for Transmittal of Applications: February 9, 2015
Description: The purpose of this priority is to fund Parent Training and Information Centers (PTIs) designed to meet the information and training needs of parents of infants, toddlers, children, and youth with disabilities, ages birth through 26 (collectively, "children with disabilities"), and the information and training needs of youth with disabilities living in the States, regions of the States, or areas served by the centers. For more information, visit www.grants.gov and search by opportunity number.

Office of Elementary and Secondary Education (OESE): High School Equivalency Program (HEP)
Funding Opportunity Number: ED-GRANTS-122914-002
Deadline for Transmittal of Applications: February 12, 2015
Description: The purposes of HEP are to help migrant and seasonal farmworkers and members of their immediate family: (1) Obtain a general education diploma that meets the guidelines for high school equivalency (HSE) established by the State in which the HEP project is conducted; and (2) gain employment or be placed in an institution of higher education (IHE) or other postsecondary education or training. Priorities: This competition includes one competitive preference priority and three invitational priorities. The first invitational priority is for applications that promote science, technology, engineering, and mathematics (STEM) education. The second invitational priority is for applications that propose to engage faith-based and community organizations in the delivery of services under this program. The third invitational priority is for applications that submit a plan supported by evidence of strong theory (e.g., a fully developed logic model (as defined in this notice) of the proposed project). For more information, visit www.grants.gov and search by opportunity number.

Office of Elementary and Secondary Education (OESE): College Assistance Migrant Program (CAMP)
Funding Opportunity Number: ED-GRANTS-122914-001
Deadline for Transmittal of Applications: February 12, 2015
Description: The purpose of CAMP is to provide academic and financial support to help migrant and seasonal farmworkers and members of their immediate family complete their first year of college and continue in postsecondary education. Priorities: This competition includes one competitive preference priority and three invitational priorities. The first invitational priority is for applications that promote science, technology, engineering, and mathematics (STEM) education. The second invitational priority is for applications that propose to engage faith-based and community organizations in the delivery of services under this program. The third invitational priority is for applications that submit a plan supported by evidence of strong theory (e.g., a fully developed logic model (as defined in this notice) of the proposed project). For more information, visit www.grants.gov and search by opportunity number.

Office of Career, Technical, and Adult Education (OCTAE): Performance Partnership Pilots
Funding Opportunity Number: ED-GRANTS-112414-001
Deadline for Transmittal of Applications: March 4, 2015
Description: The Performance Partnership Pilots (P3) program will enable up to ten pilot sites to test innovative, outcome-focused strategies to achieve significant improvements in educational, employment, and other key outcomes for disconnected youth using new flexibility to blend existing Federal funds and to seek waivers of associated program requirements. P3 pilots will receive start-up grants to support ongoing planning, streamlined governance, strengthened data infrastructure, improved coordination, and related activities to help pilots improve outcomes for disconnected youth. For more information, visit www.grants.gov and search by opportunity number.

Rehabilitation Long-Term Training Program--Vocational Rehab Counseling
Funding Opportunity Number: ED-GRANTS-010715-001

Deadline for Transmittal of Applications: March 9, 2015
Description: The Rehabilitation Long-Term Training program provides financial assistance for projects that provide basic or advanced training leading to an academic degree in areas of personnel shortages in rehabilitation as identified by the Secretary. For more information, visit www.grants.gov and search by opportunity number.

Capacity Building Program for Traditionally Underserved Populations Vocational Rehabilitation Training Institute for the Preparation of Personnel in American Indian Vocational Rehab
Funding Opportunity Number: ED-GRANTS-010715-002
Deadline for Transmittal of Applications: March 9, 2015
Description: The Capacity Building Program for Traditionally Underserved Populations provides outreach and technical assistance (TA) to minority entities and American Indian tribes to promote their participation in activities funded under the Rehabilitation Act, including assistance to enhance their capacity to carry out such activities. For more information, visit www.grants.gov and search by opportunity number.

OSERS: OSEP: Educational Technology, Media, and Materials for Individuals with Disabilities: Television Access
Funding Opportunity Number: ED-GRANTS-011415-001
Deadline for Transmittal of Applications: March 16, 2015
Description: The purposes of the Educational Technology, Media, and Materials for Individuals with Disabilities Program are to improve results for children with disabilities by promoting the development, demonstration, and use of technology; supporting educational media activities designed to be of educational value in the classroom for students with disabilities; providing support for captioning and video description that is appropriate for use in the classroom; and providing accessible educational materials to students with disabilities in a timely manner. For more information, visit www.grants.gov and search by opportunity number.

Department of Labor

National Guard Youth ChalleNGe and Job ChalleNGe Program Grants
Funding Opportunity Number: FOA-ETA-15-01
Application Deadline: February 10, 2015
Description: The Employment and Training Administration (ETA), U.S. Department of Labor (DOL, or the Department, or we), announces the availability of approximately $12,000,000.00 in grant funds authorized by Section 171, Pilot and Demonstration Projects, of the Workforce Investment Act, to: 1) test the effectiveness of expanding the National Guard Youth ChalleNGe Program for youth who have come in contact with the juvenile justice system for committing a status offense or a delinquent act (court-involved youth), and, 2) add and test an additional job training component (DOL Job ChalleNGe) to the program for court-involved youth and youth that have had no contact with the juvenile justice system (non-court-involved youth). Under this grant, and upon completion of the six-month residential phase, each Cadet will be matched with a mentor to help him or her prepare to re-enter community life during a 12-month mentorship phase. For this DOL Job ChalleNGe solicitation we expect to award up to $4,000,000 each to three (3) grantees totaling $12,000,000 with a period of performance of 42 months. http://www.doleta.gov/grants/pdf/FOA-ETA-15-01_amendment1.pdf

Department of Transportation

2015 National Summer Transportation Institute Program
Funding Opportunity Number: FY15
Original Closing Date for Applications: February 13, 2015
Description: The Federal Highway Administration (FHWA) Headquarters' Civil Rights (HCR) Office requests Statements of Work (SOWs) for the Fiscal Year (FY) 2015 NSTI Program. The NSTI program is a Science, Technology and Math (STEM) focused program for high school and junior high school students. NSTI program objectives are to improve STEM skills, provide awareness to middle and high school students—particularly minority, female and disadvantaged youth—about transportation careers, and encourage them to consider transportation-related courses of study in their higher education pursuits. Host sites are required to commit significant program time to classroom participation. The length of the program is typically 2-4 consecutive weeks. Host sites may be student day programs or residential programs in which room and board are provided by the Host

Sites to the students. http://www.grants.gov/web/grants/search-grants.html

FY 2015 CMVOST Notice of Funding Availability
Funding Opportunity Number: FM-DTG-15-001
Application Deadline: February 26, 2015
Description: The Commercial Motor Vehicle Operator Safety Training (CMVOST) grant is a nationwide federal financial assistance program intended to reduce the severity and number of crashes on U.S. roads involving commercial motor vehicles (CMV) by training operators and future operators in the safe use of such vehicles. http://www.grants.gov/web/grants/search-grants.html

Department of Veterans Affairs

VA GPD TIP Renewal NOFA
Funding Opportunity Number: VA-GPD-FY15-TIP-NOFA
Application Deadline: April 20, 2015
Description: The U.S. Department of Veterans Affairs (VA) is announcing the availability of funds for assistance under the Per Diem Only (PDO) component of VA's Homeless Providers Grant and Per Diem (GPD) Program. This Notice of Funding Availability (NOFA) is for those current "Transition in Place" (TIP) grantees who seek to renew their 2012 TIP PDO grants. Award Information: VA is pleased to issue this NOFA under VA's Homeless Providers GPD Program as a part of the effort to end homelessness among our Nation's Veterans. VA expects to fund approximately 500 beds over a 3-year period under this NOFA. The maximum award of $1.2 million will support an average of 25 beds per night, per project, at the current maximum per diem rate of $43.32; taking into consideration that the maximum per diem rate may increase in future years. Note: The final amount awarded may be adjusted based on any remaining funding from the previous award. http://www.va.gov/HOMELESS/GPD.asp

Veterans Cemetery Grants
Funding Opportunity Number: VA-GRANTS-NCA-FY2015
Application Deadline: July 1, 2015
Description: Grants are available for states, territories, and federally recognized tribal governments. This program is implemented in 38 Code of Federal Regulations Part 39. http://www.cem.va.gov/cem/grants/

Miami-Dade County Department of Cultural Affairs

Audience Access Grant Program
Funding Opportunity Number: N/A
Application Deadline: Ongoing
Description: The Department of Cultural Affairs is committed to continuing its collaborative efforts in working with people with disabilities and cultural/community organizations to help address ADA compliance issues, programmatic accessibility, and audience development and outreach efforts. The Department strives to ensure that all of its grantees are likewise committed to making their facilities and programs accessible to people of all abilities. The Audience Access Grant Program is designed to provide funding to promote and help pay for arts program ADA/access technology, such as American Sign Language (ASL) interpreters, captioning, audio description, marketing materials, and other such services to ensure programmatic access for audiences of all abilities. This program is not intended to provide assistance in funding capital/facilities improvements, such as construction, renovation or major equipment purchases. http://miamidadearts.culturegrants.org/navigation/links/page/audience-access-aud

Community Grants Program (CG) – 4th Quarter
Funding Opportunity Number: N/A
Pre-Grant Submission Workshops (CG Specific): February 19, 2015, 2 PM – Click here to RSVP
Application Deadline: March 12, 2015, 4 PM
Description: Quarterly program responsive to non-profit organizations developing small to medium scale community-based cultural arts programs, projects and events, such as fairs, parades, neighborhood festivals, conferences and publications. This program is particularly appropriate for projects which encourage the preservation of heritage and cultural traditions, and social service organizations and cultural groups developing

collaborative intervention projects. http://miamidadearts.culturegrants.org/navigation/links/page/community-grants-program-cg

Tourist Development Council Grant Program (TDC) – 4th Quarter
Funding Opportunity Number: N/A
Pre-Grant Submission Workshops (TDC Specific): March 19, 2015, 2 PM- Click here to RSVP
Grant System Basics Workshop: Visit CGO Miami Homepage for dates & times:
Application Deadline: April 16, 2015, 4 PM
Description: Quarterly program which provides support to significant cultural and/or special events, including sports activities and television/film origination projects that promote Miami-Dade County's appeal as a tourist destination. Activities must be able to stimulate tourism by increasing hotel occupancy and will have significant media impact for Miami-Dade County. http://miamidadearts.culturegrants.org/navigation/links/page/tourist-development-council-tdc

International Cultural Exchange (ICE)
Funding Opportunity Number: N/A
Application Deadline: March 4, 2015, 4:00 PM
Description: The International Cultural Exchange (ICE) Grants Program offers grants to Miami-Dade County-based professional cultural organizations to support meaningful artistic exchange, partnerships or collaborations with artists, arts professionals and/or organizations abroad. The program aims to elevate Miami-Dade County's image abroad and support the efforts of Miami-Dade's professional artists and cultural organizations to improve their work by engaging in meaningful arts and cultural activities with artists, arts professionals (such as curators, historians, designers) and/or arts organizations abroad. Projects must demonstrate reciprocal relationships with another city, country or region, either as a component of the same project or over a specified period of time. Additionally, projects should demonstrate artistic excellence and originality within the organization's overall programming goals. http://www.miamidadearts.org/international-cultural-exchange-ice-grants-program

Hannibal Cox, Jr. Cultural Grants Program (HCJ)
Funding Opportunity Number: N/A
Application Deadline: March 12, 2015, 4PM
Description: The Hannibal Cox, Jr. (HCJ) Cultural Grants Program provides funding and technical assistance support to mid-sized semi-professional and professional arts, scientific and historical organizations with a year round presence in Miami-Dade County of presenting, performing or exhibiting a full season of cultural activities. Applicants to this program must have a least a three year consecutive track record of providing year round professional artistic programming and presentation in Miami-Dade County and an annual operating budget of $100,000 or more. http://www.miamidadearts.org/hannibal-cox-jr-hcj-cultural-grants-program

Capital Development Grants Program (CAP)
Funding Opportunity Number: N/A
Application Deadline: March 16, 2015, 4:00 PM
Description: The Capital Development (CAP) grants program provides funding assistance to non-profit cultural organizations for capital improvement projects that are designed to expand, renovate, construct, and/or equip cultural facilities located within Miami-Dade County. These capital projects assist the nonprofit cultural community in providing increased public service, greater access, enhanced exhibition or performing space and in developing cultural facilities that can be operated more effectively and efficiently. Programs in facilities for which grants have been provided must be ADA accessible and promoted to the general public. Projects must have strong evidence of prior planning and imminent completion or "readiness" factor, as well a documented, secured maximum possible public and/or private match. Facilities improvement projects should be designed to improve the artistic capabilities of and/or the audience ability to experience programs in the applicant facilities. Grants are intended to have a major impact on the applicant organization, the patrons served by that organization and the surrounding community. Priority consideration will be given to facilities proposing ADA-compliance improvements.
http://www.miamidadearts.org/capital-development-cap-grants-program

Youth Arts Enrichment Grants Program (YEP)
Funding Opportunity Number: N/A
Application Deadline: April 17, 2015, 4PM

Description: The Youth Arts Enrichment Program (YEP) was created as a joint initiative of the Miami-Dade County Department of Cultural Affairs and The Children's Trust. The objective of the YEP Grants Program is to enrich the lives of children through the arts by making the arts available to more children and families throughout Miami-Dade County, whereby, children will have opportunities to have positive live arts experiences through arts instruction, arts intervention, healing/expressive arts, in-school arts residencies and performances, and/or out-of-school/public arts exhibitions and performances.http://www.miamidadearts.org/youth-arts-enrichment-yep-grants-program

Festivals and Special Events Grants Program (FEST)
Funding Opportunity Number: N/A
Application Deadline: April 24, 2015, 4:00 PM
Description: The Festivals and Special Events (FEST) Grants Program is designed to support major annual festivals and special events taking place during the fiscal year between October 1 and September 30. The program provides significant funding in two categories and three divisions to organizations which have an established reputation for excellence and credibility, are capable of attracting visitors on regional, national and/or international levels, and have a significant and positive impact on the perception of Miami-Dade County as a dynamic cultural community. http://www.miamidadearts.org/festivals-and-special-events-fest-grants-program

National Aeronautics and Space Administration

2014 NASA Research Announcement (NRA) Minority University Research and Education Project (MUREP) Science and Technology and Engineering and Math (STEM) Engagement (MSE)
Funding Opportunity Number: NNH14ZHA001N-APPENDIXI
Application Deadline: March 2, 2015
Description: The NASA Office of Education Minority University Research and Education Project (MUREP) solicits proposals from Minority Serving Institutions (MSIs) to create and implement a NASA STEM challenge, targeted for MSI participation. STEM challenges are creative applications of NASA-related science, technology, engineering, mathematics, and cross-cutting concepts. MUREP Science, Technology, Engineering and Math (STEM) Engagement (MSE) seeks proposals to support MSIs that demonstrate the potential to increase the number of minority undergraduates in STEM education areas relevant to NASA. The specific goals of MSE awards are to increase the retention and completion rates of undergraduate degrees awarded from MSIs in NASA-related STEM disciplines; increase the number of NASA-focused STEM experiences that engage underrepresented groups in active learning to improve retention of information and critical thinking skills; and disseminate proven, innovative practices and programs in STEM teaching, STEM learning, and recruitment and retention of underrepresented/ underserved students in STEM fields. Prospective proposers are requested to submit any questions in writing to NASAMSE@nasaprs.com no later than 10 business days before the proposal due date so that NASA will be able to respond. Only Minority Serving Colleges and Universities that are legally recognized by the Department of Education are eligible to apply for this NASA Research Announcement (NRA).http://nspires.nasaprs.com/external/

ROSES 2014: Severe Storm Research
Funding Opportunity Number: NNH14ZDA001N-WEATHER
Application Deadline: March 3, 2015
Description: This ROSES-2014 NRA (NNH14ZDA001N) solicits basic and applied research in support of NASA's Science Mission Directorate (SMD). This NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences. 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-2014 NRA range from less than one to several million dollars, which allows selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit.
http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId=%7B5924CEB3-4EB7-FEF1-C85B-DD5745C1331C%7D&path=open

National Endowment for the Arts

NEA Art Works, FY 2016
Funding Opportunity Number: 2015NEA01AW1
Application Deadline: February 19, 2015
Description: An organization may submit only one application through one of the following FY 2016 categories: Art Works or Challenge America. The Arts Endowment's support of a project may start on or after January 1, 2016. Generally, a period of performance of up to two years is allowed. To be eligible, the applicant organization must: Meet the Arts Endowment's "Legal Requirements" including nonprofit, tax-exempt status at the time of application. (All organizations must apply directly on their own behalf. Applications through a fiscal sponsor are not allowed. See more information on fiscal sponsors.) http://arts.gov/grants-organizations/art-works/grant-program-description

NEA Literature Fellowships: Prose, FY 2016
Funding Opportunity Number: 2015NEA03LFCW
Application Deadline: March 11, 2015
Description: The Arts Endowment's support of a project may begin any time between January 1, 2016, and January 1, 2017, and extend for up to two years. The NEA Literature Fellowships program offers $25,000 grants in prose (fiction and creative nonfiction) and poetry to published creative writers that enable recipients to set aside time for writing, research, travel, and general career advancement. Applications are reviewed through an anonymous process in which the only criteria for review are artistic excellence and artistic merit. To review the applications, the NEA assembles a different advisory panel every year, each diverse with regard to geography, race and ethnicity, and artistic points of view. The NEA Literature Fellowships program operates on a two-year cycle with fellowships in prose and poetry available in alternating years. For FY 2016, which is covered by these guidelines, fellowships in prose (fiction and creative nonfiction) are available. Fellowships in poetry will be offered in FY 2017 and guidelines will be available in the fall of 2015. You may apply only once each year. Competition for fellowships is extremely rigorous. http://arts.gov/grants/apply-individuals

NEA Challenge America, FY2016
Funding Opportunity Number: 2015NEA01CAFT
Application Deadline: April 16, 2015
Description: An organization may submit only one application through one of the following FY 2016 categories: Art Works or Challenge America. The Arts Endowment's support of a project may start on or after January 1, 2016. Grants awarded under these guidelines generally may cover a period of performance of up to two years. An organization that has received Challenge America grants in FY 2013, 2014, and 2015 may not apply for a Challenge America grant under these FY 2016 guidelines. Applicants must meet the Arts Endowment's "Legal Requirements" including nonprofit, tax-exempt status at the time of application. (All organizations must apply directly on their own behalf. Applications through a fiscal agent are not allowed.) http://arts.gov/grants-organizations/challenge-america

National Endowment for the Humanities

Landmarks of American History and Culture: Workshops for School Teachers
Funding Opportunity Number: 20150224-BH
Application Deadline: February 24, 2015
Description: The Landmarks of American History and Culture program supports a series of one-week residence-based workshops for a national audience of K-12 educators. NEH Landmarks of American History and Culture Workshops use historic sites to address central themes and issues in American history, government, literature, art, music, and related subjects in the humanities. Each workshop is offered twice during the summer. Workshops accommodate thirty-six school teachers (NEH Summer Scholars) at each one-week session. The goals of the workshops are to increase knowledge and appreciation of subjects, ideas, and places significant to American history and culture through humanities reading and site study; build communities of inquiry and provide models of civility and of excellent scholarship and teaching; provide teachers with expertise in the use and interpretation of historical sites and of material and archival resources; and foster interaction between K-12 educators and scholarly experts. http://www.neh.gov/grants/education/landmarks-american-history-and-culture-workshops-school-teachers

Summer Seminars and Institutes
Funding Opportunity Number: 20150224-FS
Application Deadline: February 24, 2015
Description: These grants support faculty development programs in the humanities for school teachers and for college and university teachers. NEH Summer Seminars and Institutes may be as short as two weeks or as long as five weeks. NEH Summer Seminars and Institutes extend and deepen knowledge and understanding of the humanities by focusing on significant topics and texts; contribute to the intellectual vitality and professional development of participants; build communities of inquiry and provide models of civility and excellent scholarship and teaching; and link teaching and research in the humanities. An NEH Summer Seminar or Institute may be hosted by a college, university, learned society, center for advanced study, library or other repository, cultural or professional organization, or school or school system. The host site must be suitable for the project, providing facilities for scholarship and collegial interaction. These programs are designed for a national audience of teachers. Note that NEH Summer Seminars and Institutes may be held only in the United States and its territories. The principal goals are to deepen teachers understanding of the subject at hand through reading, discussion, reflection, and writing, and to sustain their intellectual commitment to teaching. The director, an expert in the field, guides discussion of common readings and offers advice for individual study and projects.
http://www.neh.gov/grants/education/summer-seminars-and-institutes

Institutes for Advanced Topics in the Digital Humanities
Funding Opportunity Number: 20150310-HT
Application Deadline: March 10, 2015
Description: These NEH grants support national or regional (multistate) training programs for scholars and advanced graduate students to broaden and extend their knowledge of digital humanities. Through these programs, NEH seeks to increase the number of humanities scholars using digital technology in their research and to broadly disseminate knowledge about advanced technology tools and methodologies relevant to the humanities. The Institutes for Advanced Topics in the Digital Humanities program seeks to enable humanities scholars in the United States to incorporate advances like these into their scholarship and teaching.
http://www.neh.gov/grants/odh/institutes-advanced-topics-in-the-digital-humanities

National Institutes of Health

Innovative Measures of Oral Medication Adherence for HIV Treatment and Prevention (R01)
Funding Opportunity Number: RFA-AI-14-071
Application Deadline: March 25, 2015
Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit innovative research applications that seek to advance the development of bioanalytical assays, pill ingestion sensors, drug metabolite and taggant detection systems, or wireless technologic approaches for monitoring and improving adherence to oral antiretroviral therapy (ART) and pre-exposure prophylaxis (PrEP). http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-071.html#sthash.aprenNVw.dpuf

High Priority Immunology Grants (R01)
Funding Opportunity Number: (PAS-15-055)
Application Deadline: Multiple dates, see announcement.
Description: The goal of this Funding Opportunity Announcement (FOA) is to augment the maintenance and growth of the NIAID portfolio of investigator-initiated R01 grants in fundamental immunology. It seeks to address a decline in NIAID immunology R01 applications and awards that has occurred in the past several fiscal years.
http://grants.nih.gov/grants/guide/pa-files/PAS-15-055.html#sthash.q0Ls5tpr.dpuf

NIA Coordinating Center for Genetics and Genomics of Alzheimer's Disease (U54)
Funding Opportunity Number: (RFA-AG-16-001)
Application Deadline: June 3, 2015
Description: This Funding Opportunity Announcement (FOA) invites applications to establish an NIA Coordination Center to facilitate and support the Replication Phase of the Alzheimer's Disease (AD) Sequencing Project (ADSP) activities. The Coordinating Center for the Genetics and Genomics of Alzheimer's Disease (CGAD) will serve as the focal point for ADSP replication phase joint data analysis, harmonization, and sharing.

The FOA is intended to support a major component of the full range of analysis for the Replication Phase of the ADSP. The spectrum of the Center's activities comprises a multidisciplinary attack on AD in keeping with NIA's programmatic needs. The Center will serve as a national resource for the specific purpose of identifying potential avenues for therapeutic approaches and prevention of the disease. http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-16-001.html#sthash.WXogWSNb.dpuf

Alzheimer's Disease Sequencing Project (ADSP) Replication Phase Analysis Studies (U01)
Funding Opportunity Number: (RFA-AG-16-002)
Application Deadline: June 3, 2015
Description: This Funding Opportunity Announcement (FOA) invites applications specific to targeted sequencing, genotyping, and data analysis in the Replication Phase of the Alzheimer's Disease Sequencing Project. http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-16-002.html#sthash.2EoZBWf7.dpuf

Cancer Detection, Diagnosis, and Treatment Technologies for Global Health (UH2/UH3)
Funding Opportunity Number: (RFA-CA-15-001)
Application Deadline: March 6, 2015
Description: This Funding Opportunity Announcement (FOA) is an initiative to support the development of cancer-relevant technologies suitable for use in low- and middle-income countries (LMICs). Specifically, the FOA solicits applications for projects to adapt, apply, and validate existing or emerging technologies into a new generation of user-friendly, low-cost devices or assays that are clinically comparable to currently used technologies for imaging, in vitro detection/diagnosis, prevention or treatment of cancers in humans living in LMICs. Projects proposed in response to this FOA will require multidisciplinary efforts to succeed and therefore all applicant teams must include expertise in engineering/assay/treatment development, oncology, global healthcare delivery, and business development. Investigators responding to this FOA must address both UH2 and UH3 phases. http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-15-001.html#sthash.mEZH4Xve.dpuf

Developmental Centers for Interdisciplinary Research in Benign Urology (P20)
Funding Opportunity Number: (RFA-DK-15-001)
Application Deadline: March 25, 2015
Description: The purpose of this Funding Opportunity Announcement (FOA) is to seek applications for the Developmental Centers for Interdisciplinary Research in Benign Urology Program (P20). The intent of this Program is to further advance research in benign urology by facilitating resources sharing and building research teams. The research teams should be composed of individuals with complementary expertise who propose either to develop innovative resources (Resource Development Projects) or new research projects (Scientific Research Projects) that utilize integrative approaches addressing research questions relevant to benign urological diseases. Resources developed by the Resource Development Projects will be shared upon validation while resources developed by the Scientific Research Projects will be shared at the end or termination of the award. Each Developmental Center is centered on a single Project and must contain an Administrative Core and an Educational Enrichment Program. http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-15-001.html#sthash.W7gYkWzy.dpuf

George M. O'Brien Urology Cooperative Research Centers Program (U54)
Funding Opportunity Number: (RFA-DK-15-002)
Application Deadline: March 25, 2015
Description: The purpose of this Funding Opportunity Announcement (FOA) is to seek applications for the George M. O'Brien Urology Cooperative Research Centers Program. This program will provide a coordinated platform for multidisciplinary interactions between basic and clinical scientists with the overall goal of understanding the etiology and development of benign urologic diseases and disorders, and providing a collaborative venue to design better treatments, diagnostics, and prevention strategies for these disease conditions within the NIDDK mission interests. This program will also serve as a national resource to the larger urological research community and provide educational enrichment opportunities to scientists electing to pursue research in benign urology. Accordingly, applications are sought from individuals willing to cooperate with the NIDDK under a cooperative centers program. It is expected that funded programs will work with the NIDDK in facilitating research collaborations and interactions within and among centers and with the larger research community to accomplish the overall goal of improving treatment of urologic disorders through enhanced communication and research

excellence. http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-15-002.html#sthash.oq7qTcbs.dpuf

Mentored Career Development Award to Promote Faculty Diversity in Biomedical Research (K01)
Funding Opportunity Number: (RFA-HL-16-006)
Application Deadline: February 18, 2015, October 15, 2015, February 18, 2016, October 15, 2016, February 18, 2017, October 15, 2017 AIDS Application Due Date(s): April 14, 2015, November 17, 2015, April 14, 2016, November 17, 2016, April 14, 2017, November 17, 2017
Description: This Funding Opportunity Announcement (FOA) invites applications to enhance the pool of highly trained investigators from diverse backgrounds underrepresented in research. It is targeted toward individuals whose basic, clinical, and translational research interests are grounded in the advanced methods and experimental approaches needed to solve problems related to cardiovascular, pulmonary, and hematologic diseases and sleep disorders in the general and health disparities populations. This FOA invites applications from Institutions with eligible faculty members to undertake special study and supervised research under a mentor who is an accomplished investigator in the research area proposed and has experience in developing independent investigators. http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-16-006.html#sthash.tujYwQPS.dpuf

NIH Big Data to Knowledge (BD2K) Initiative Research Education: Massive Open Online Course (MOOC) on Data Management for Biomedical Big Data (R25)
Funding Opportunity Number: (RFA-LM-15-001)
Application Deadline: March 17, 2015
Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this BD2K R25 FOA is to complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will focus on Curriculum or Methods Development. In particular, this FOA seeks applications for development of an open, online educational resource. http://grants.nih.gov/grants/guide/rfa-files/RFA-LM-15-001.html#sthash.txQRgTfA.dpuf

NIH Big Data to Knowledge (BD2K) Initiative Research Education: Open Educational Resources for Sharing, Annotating and Curating Biomedical Big Data (R25)
Funding Opportunity Number: (RFA-LM-15-002)
Application Deadline: March 17, 2015
Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this BD2K R25 funding announcement is to complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will focus on Curriculum or Methods Development. In particular, this FOA seeks applications for development of open educational resources.
http://grants.nih.gov/grants/guide/rfa-files/RFA-LM-15-002.html#sthash.CjjrzDXO.dpuf

Underactive Bladder in Aging (R01)
Funding Opportunity Number: (PA-15-049)
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, or translational research on underactive bladder (UAB) and its consequences in aging and in older persons. Applications should focus on the 1) biology, etiology and pathophysiology of UAB in animal models and/or older adults; 2) translation of basic/clinical research into clinical practice and health decision-making; 3) diagnosis, prevention, management and clinical outcomes of UAB in older adults; and/or 4) epidemiology and risk factors for the development of UAB with advancing age. Research supported by this initiative should enhance knowledge of UAB and its consequences in older adults and provide evidence-based guidance in the diagnosis, evaluation, and treatment of UAB in older persons. http://grants.nih.gov/grants/guide/pa-files/PA-15-049.html#sthash.qs0tIJ9B.dpuf

Underactive Bladder in Aging (R03)
Funding Opportunity Number: (PA-15-050)
Application Deadline: Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) invites pilot/feasibility projects that propose basic, clinical, or translational research on underactive bladder (UAB) and its consequences in aging and in older persons. Applications should focus on the 1) biology, etiology and pathophysiology of UAB in animal models and/or older adults; 2) translation of basic/clinical research into clinical practice and health decision-making; 3) diagnosis, prevention, management and clinical outcomes of UAB in older adults; and/or 4) epidemiology and risk factors for the development of UAB with advancing age. Pilot/feasibility research supported by this initiative should enhance knowledge of UAB and its consequences in older adults and provide evidence of feasibility of the diagnosis, evaluation, and/or treatment of UAB in older persons. http://grants.nih.gov/grants/guide/pa-files/PA-15-050.html#sthash.ltZbpwBL.dpuf

Underactive Bladder in Aging (R21)
Funding Opportunity Number: (PA-15-051)
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, or translational research on underactive bladder (UAB) and its consequences in aging and in older persons. Applications should focus on the 1) biology, etiology and pathophysiology of UAB in animal models and/or older adults; 2) translation of basic/clinical research into clinical practice and health decision-making; 3) diagnosis, prevention, management and clinical outcomes of UAB in older adults; and/or 4) epidemiology and risk factors for the development of UAB with advancing age. The R21 mechanism is intended to encourage exploratory and developmental research projects by providing support for the early and conceptual stages of these projects. http://grants.nih.gov/grants/guide/pa-files/PA-15-051.html#sthash.QEJKofWr.dpuf

Exploratory Grant Award to Promote Workforce Diversity in Basic Cancer Research (R21)
Funding Opportunity Number: (PAR-15-053)
Application Deadline: June 22, 2015; November 30, 2015; June 22, 2016; November 30, 2016; June 22, 2017; November 30, 2017
Description: The purpose of this FOA is to enhance the diversity of the NCI-funded research workforce by supporting and recruiting eligible investigators from groups that have been shown to be underrepresented in the biomedical, clinical, behavioral, and social sciences workforce. This funding opportunity will also provide a bridge to investigators that have completed their research training and may need extra time to develop a larger research project grant application. http://grants.nih.gov/grants/guide/pa-files/PAR-15-053.html#sthash.rNySzAw3.dpuf

Alcohol Education Project Grants (R25)
Funding Opportunity Number: (PAR-15-054)
Application Deadline: Multiple dates, see announcement.
Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of the National Institute on Alcohol Abuse and Alcoholism (NIAAA) R25 program is to foster a better understanding of biomedical, behavioral and clinical research and its implications. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Curriculum or Methods Development and Outreach activities for Health Professionals. http://grants.nih.gov/grants/guide/pa-files/PAR-15-054.html#sthash.4vc82ehO.dpuf

Studies of HIV in Digestive Diseases Limited to Gastrointestinal Mucosal Immunology and Liver Diseases (R01)
Funding Opportunity Number: RFA-DK-14-019
Application Deadline: April 7, 2015
Description: The goal of this Funding Opportunity Announcement (FOA) is to support innovative research with human subjects to elucidate the role of gastrointestinal mucosal immunity during HIV infection, to evaluate pathophysiologic mechanisms of injury to the liver and the biliary system during HIV infection, and to conduct epidemiological studies of liver diseases and disorders in HIV patients. Proposed projects must involve individuals with HIV infection or materials or data from HIV-infected individuals. http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-019.html#sthash.qOoESvgp.dpuf

Spatial Uncertainty: Data, Modeling, and Communication (R01)
Funding Opportunity Number: PA-15-010
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this funding opportunity announcement (FOA) is to support innovative research that identifies sources of spatial uncertainty (i.e., inaccuracy or instability of spatial or geographic information) in public health data, incorporates the inaccuracy or instability into statistical methods, and develops novel tools to visualize the nature and consequences of spatial uncertainty. http://grants.nih.gov/grants/guide/pa-files/PA-15-010.html#sthash.winzbYa6.dpuf

Spatial Uncertainty: Data, Modeling, and Communication (R03)
Funding Opportunity Number: PA-15-011
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this funding opportunity announcement (FOA) is to support innovative research that identifies sources of spatial uncertainty (i.e., inaccuracy or instability of spatial or geographic information) in public health data, incorporates the inaccuracy or instability into statistical methods, and develops novel tools to visualize the nature and consequences of spatial uncertainty. http://grants.nih.gov/grants/guide/pa-files/PA-15-011.html#sthash.UQU53c4C.dpuf

Consortium for the Study of Chronic Pancreatitis, Diabetes and Pancreatic Cancer Clinical Centers (CSCPDPC -CCs) (U01)
Funding Opportunity Number:RFA-DK-14-027
Application Deadline: April 2, 2015
Description: This Funding Opportunity Announcement (FOA) invites U01 applications for the establishment of a clinical consortium, composed of one Coordination and Data Management Center (CDMC) and up to 9 Clinical Centers (CC), to conduct studies on chronic pancreatitis (CP) and factors that increase the risk of pancreatic cancer in patients (children and adults) with CP, pancreatogenic (type 3c) diabetes (T3cDM) and in patients with newly diagnosed diabetes. The Consortium will form multi-disciplinary teams composed of members from the CCs and CDMC to undertake a comprehensive clinical, epidemiological and biological characterization of patients with CP (including those with Acute Recurrent Pancreatitis, ARP) to gain insight into the pathophysiology of chronic pancreatitis and its sequela: chronic pain, pancreatic insufficiency, T3cDM and the diabetes/pancreatic cancer association. The teams will also undertake studies on the development of pancreatic cancer in newly diagnosed diabetic patients. Applications for the Consortium Coordination and Data Management Center (CDMC) are being solicited via RFA-DK-14-028 . In addition, a major collaborative effort within the Consortium will be the establishment of an annotated repository of biospecimens (blood, pancreatic and duodenal juice, stools and when feasible pancreatic tissue) to allow for the identification and validation of biomarkers for risk stratification and/or early detection. http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-027.html#sthash.7OVyDf59.dpuf

Consortium for the Study of Chronic Pancreatitis, Diabetes and Pancreatic Cancer Coordination and Data Management Center (CSCPDPC- CDMC) (U01)
Funding Opportunity Number: RFA-DK-14-028
Application Deadline: April 2, 2015
Description: This Funding Opportunity Announcement (FOA) invites U01 applications for the establishment of a clinical consortium, composed of one Coordination and Data Management Center (CDMC) and up to 9 Clinical Centers (CC), to conduct studies on chronic pancreatitis (CP) and factors that increase the risk of pancreatic cancer in patients (children and adults) with CP, pancreatogenic (type 3c) diabetes (T3cDM) and in patients with newly diagnosed diabetes. The Consortium will form multi-disciplinary teams composed of members from the CCs and CDMC to undertake a comprehensive clinical, epidemiological and biological characterization of patients with CP (including those with Acute Recurrent Pancreatitis, ARP) to gain insight into the pathophysiology of chronic pancreatitis and its sequela: chronic pain, pancreatic insufficiency, T3cDM and the diabetes/pancreatic cancer association. The teams will also undertake studies on the development of pancreatic cancer in newly diagnosed diabetic patients. Applications for the consortium Clinical Centers are being solicited via RFA-DK-14-027. In addition, a major collaborative effort within the Consortium will be the establishment of an annotated repository of bio-specimens (blood, pancreatic and duodenal juice, stools and when feasible pancreatic tissue) to allow for the identification and validation of biomarkers for risk stratification and/or early detection.

http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-028.html#sthash.QLYrt4fx.dpuf

Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R21)
Funding Opportunity Number: PA-15-015
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this funding opportunity announcement (FOA) is to stimulate clinical research focused on biobehavioral or technological interventions to attenuate cognitive decline in individuals with dementia (such as Alzheimer's disease, Lewy body dementia, vascular dementia), mild cognitive impairment (MCI), or disease- or age-related cognitive decline. There is particular interest in interventions that can be implemented in community settings by the affected individual, informal caregivers, or others in the community. Research to inform the development of such interventions is also of interest, as well as research examining underlying mechanisms and biomarkers associated with response to interventions. It is anticipated that the results of this research will help affected individuals maintain independence and quality of life, improve their ability to perform activities of daily living (ADLs) and instrumental activities of daily living (IADLs), and additionally help to reduce stress, burden, and other poor outcomes in their caregivers. http://grants.nih.gov/grants/guide/pa-files/PA-15-015.html#sthash.BEU5pto4.dpuf

Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R15)
Funding Opportunity Number: PA-15-016
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this funding opportunity announcement (FOA) is to stimulate clinical research focused on biobehavioral or technological interventions to attenuate cognitive decline in individuals with dementia (such as Alzheimer's disease, Lewy body dementia, vascular dementia), mild cognitive impairment (MCI), or disease- or age-related cognitive decline. There is particular interest in interventions that can be implemented in community settings by the affected individual, informal caregivers, or others in the community. Research to inform the development of such interventions is also of interest, as well as research examining underlying mechanisms and biomarkers associated with response to interventions. It is anticipated that the results of this research will help affected individuals maintain independence and quality of life, improve their ability to perform activities of daily living (ADLs) and instrumental activities of daily living (IADLs), and additionally help to reduce stress, burden, and other poor outcomes in their caregivers. http://grants.nih.gov/grants/guide/pa-files/PA-15-016.html#sthash.S2JNFb6Y.dpuf

Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R01)
Funding Opportunity Number: PA-15-017
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this funding opportunity announcement (FOA) is to stimulate clinical research focused on biobehavioral or technological interventions to attenuate cognitive decline in individuals with dementia (such as Alzheimer's disease, Lewy body dementia, vascular dementia), mild cognitive impairment (MCI), or disease- or age-related cognitive decline. There is particular interest in interventions that can be implemented in community settings by the affected individual, informal caregivers, or others in the community. Research to inform the development of such interventions is also of interest, as well as research examining underlying mechanisms and biomarkers associated with response to interventions. It is anticipated that the results of this research will help affected individuals maintain independence and quality of life, improve their ability to perform activities of daily living (ADLs) and instrumental activities of daily living (IADLs), and additionally help to reduce stress, burden, and other poor outcomes in their caregivers. http://grants.nih.gov/grants/guide/pa-files/PA-15-017.html#sthash.7b41IHSP.dpuf

Elucidating HIV and HIV-treatment Associated Metabolic/Endocrine Dysfunction (R01)
Funding Opportunity Number: RFA-DK-14-023
Application Deadline: April 9, 2015
Description: The goal of this Funding Opportunity Announcement (FOA) is to support innovative research in

humans to elucidate the role of HIV infection, including relevant host conditions or antiretroviral therapy, on metabolic and endocrine dysfunction, as well as to support innovative research delineating the pathophysiology, etiology, risk or protective factors, and potential strategies to prevent, treat, or reverse endocrine and metabolic dysfunction in HIV-infected individuals. Proposed projects must involve human subjects with HIV infection or materials or data from HIV-infected individuals. Proposed projects must also be related to the mission of the Division of Diabetes, Endocrinology, and Metabolic Diseases within NIDDK (DEM/NIDDK).
http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-023.html#sthash.Y6iDlf3U.dpuf

Clinical Studies of Safety and Effectiveness of Orphan Products Research Project Grant (R01)
Funding Opportunity Number: RFA-FD-15-001
Application Deadline: February 3, 2016; February 1, 2017; February 7, 2018 by 11:59 PM Eastern Time. Resubmission Due Date(s): October 15, 2015; October 14, 2016; October 16, 2017; October 15, 2018) by 11:59 PM Eastern Time.
Description: The goal of FDA's OPD grant program is to support the clinical development of products for use in rare diseases or conditions where no current therapy exists or where the product being developed will be superior to the existing therapy. FDA provides grants for clinical studies on safety and/or effectiveness that will either result in, or substantially contribute to, market approval of these products. Applicants must include in the application's Background and Significance section documentation to support the assertion that the orphan disease or condition to be studied is a "rare disease or condition" and an explanation of how the proposed study will either help support product approval or provide essential data needed for product development.
http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-15-001.html#sthash.qBGNwsfz.dpuf

Physical Sciences-Oncology Network (PS-ON): Physical Sciences-Oncology Projects (PS-OP) (U01)
Funding Opportunity Number: PAR-15-021
Application Deadline: February 26, 2015; November 25, 2015; May 26, 2016; September 21, 2016; May 26, 2017; September 21, 2017
Description: This Funding Opportunity Announcement (FOA) invites U01 cooperative agreement applications for Physical Science-Oncology Projects (PS-OP). The goal of the PS-OPs is to foster the convergence of physical sciences approaches and perspectives with cancer research to advance our understanding of cancer biology and oncology by forming small transdisciplinary teams of physical scientists and cancer biologists/physician scientists. Examples of physical scientists may include engineers, physicists, mathematicians, chemists, and computer scientists. The PS-OPs, individually and as a collaborative Network along with other PS-OPs and the Physical Sciences-Oncology Centers (PS-OC), will support transdisciplinary research that: (1) establishes a physical sciences perspective within the cancer research community; (2) facilitates team science and field convergence at the intersection of physical sciences and cancer research; and (3) collectively tests physical sciences-based experimental and theoretical concepts of cancer and promotes innovative solutions to address outstanding questions in cancer research. http://grants.nih.gov/grants/guide/pa-files/PAR-15-021.html#sthash.m6WnNEeU.dpuf

Brain Somatic Mosaicism and its Role in Psychiatric Disorders (Collaborative U01)
Funding Opportunity Number: PAR-15-022
Application Deadline: February 24, 2015; October 23, 2015; June 24, 2016; February 24, 2017
Description: This funding opportunity announcement (FOA) invites Cooperative Agreement (U01) applications from multi-disciplinary and synergistic teams of investigators proposing to identify and characterize the full spectrum of somatic variation in human brain samples and to assess the relationship of such variation with the pathophysiology of neuropsychiatric disorders. This FOA seeks to support applications exploring the extent of somatic variations across different brain regions in one or more psychiatric disorders using state-of-the-art genomic, computational, single-cell and other relevant approaches. Awards made under this FOA and the companion FOA (PAR-14-173) will be governed by a Brain Somatic Mosaicism (BSM) Network Steering Committee to accelerate scientific progress through the coordination of research strategies, analytical methods and data. The ultimate goal of this FOA and the companion FOA (PAR-14-173) is to address gaps in our understanding of the role of somatic genomic perturbations in the etiology of neuropsychiatric disorders. This FOA should be used when two or more collaborating sites are essential to complete the proposed research. It is required that the Research Strategy be identical across linked collaborative U01 applications, with the exception of a short section describing specific function of each application under "elements unique to that site." For a linked set of collaborative U01 applications,

each application must have its own Program Directory/Principal Investigator (PD/PI) and the program must provide a mechanism for cross-site coordination, quality control, data and sample sharing among the BSM Network members as appropriate, database management, statistical analysis, and reporting.
http://grants.nih.gov/grants/guide/pa-files/PAR-15-022.html#sthash.ZO546iw1.dpuf

Outstanding New Environmental Scientist (ONES) Award (R01)
Funding Opportunity Number: RFA-ES-15-003
Application Deadline: February 27, 2015
Description: The Outstanding New Environmental Scientist (ONES) Award is intended to identify the most talented Early Stage Investigators (ESIs) who intend to make a long-term commitment to research in the Environmental Health Sciences and assist them in launching an innovative research program focused on the understanding of environmental exposure effects on people's health. http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-15-003.html#sthash.dQf7CqRJ.dpuf

Mechanistic Studies of Pain and Alcohol Dependence (R01)
Funding Opportunity Number: PA-15-026
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) encourages applications that propose to conduct mechanistic studies on the relationship between excessive alcohol drinking, alcohol dependence and pain. An association between chronic pain conditions and alcohol dependence has been revealed in numerous studies with episodes of alcohol abuse antedating chronic pain in some people and alcohol dependence emerging after the onset of chronic pain in others. Pain transmission and alcohol's reinforcing effects share overlapping neural substrates giving rise to the possibility that chronic pain states significantly affect alcohol use patterns and promote the development of dependence and addiction. In addition, long term alcohol intoxication and alcohol dependence induce pain symptoms and may exacerbate chronic pain arising from other sources. The objective of this FOA is to understand genetic, pharmacological and learning mechanisms underlying the association between the propensity to drink excessively alcohol and pain responses. http://grants.nih.gov/grants/guide/pa-files/PA-15-026.html#sthash.gxxjLiu4.dpuf

Research on Eosinophil Associated Disorders (R01)
Funding Opportunity Number: PA-15-027
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this Funding Opportunity Announcement (FOA) is to encourage research aimed at elucidating the pathophysiology of eosinophil-associated disorders and clarifying the cellular and molecular mechanisms underlying the role of eosinophil leukocytes in these conditions. http://grants.nih.gov/grants/guide/pa-files/PA-15-027.html#sthash.Oa1R4hos.dpuf

Research on Eosinophil Associated Disorders (R21)
Funding Opportunity Number: PA-15-028
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this Funding Opportunity Announcement (FOA) is to encourage research aimed at elucidating the pathophysiology of eosinophil-associated disorders and clarifying the cellular and molecular mechanisms underlying the role of eosinophil leukocytes in these conditions. The R21 mechanism is intended to encourage exploratory and developmental research projects by providing support for the early and conceptual stages of these studies. http://grants.nih.gov/grants/guide/pa-files/PA-15-028.html#sthash.57tsC9MO.dpuf

National Cancer Institute Program Project Applications (P01)
Funding Opportunity Number: PAR-15-023
Application Deadline: Multiple dates, see announcement.
Description: With this Funding Opportunity Announcement (FOA), the National Cancer Institute (NCI) invites applications for investigator-initiated program project (P01) grants. Proposed program projects may address any of the broad areas of cancer research, including (but not limited to) cancer biology, cancer prevention, cancer diagnosis, cancer treatment, and cancer control. Basic, translational, clinical, and/or population-based studies in all of these research areas are appropriate. Each Program Project application must consist of at least three projects. The

projects must share a common central theme, focus, and/or overall objective. http://grants.nih.gov/grants/guide/pa-files/PAR-15-023.html#sthash.LqEORiyX.dpuf

Food Specific Molecular Profiles and Biomarkers of Food and Nutrient Intake, and Dietary Exposure (R01)
Funding Opportunity Number: PAR-15-024
Application Deadline: May 27, 2015; September 28, 2015; May 27, 2016; September 27, 2016; May 27, 2017
Description: The purpose of this Funding Opportunity Announcement (FOA) is to promote research on food specific molecular signatures and biomarkers of dietary consumption and to promote collaborative interactions among NIH and USDA supported nutrition researchers. http://grants.nih.gov/grants/guide/pa-files/PAR-15-024.html#sthash.ToCAheV1.dpuf

Stem Cell-Derived Blood Products for Therapeutic Use (R01)
Funding Opportunity Number: (RFA-HL-15-022)
Application Deadline: February 20, 2015
Description: Stem cell technology holds the promise of providing a nearly limitless source of safe, immune-matched cells for clinical use. One of the first areas where this promise can be realized is through cell products that lack a nucleus and thus face fewer regulatory hurdles, such as red blood cells and platelets. Considerable progress has been made but scientific questions remain and improved tools to enhance the production are required if translation to clinical use is to be achieved. To this end, this FOA will support research addressing remaining scientific questions to enable and accelerate the use of stem cell-derived blood products as therapeutics. While production of sufficient numbers of cells such as platelets and red cells has been demonstrated using cellular engineering methods, basic research questions related to cell differentiation and maturation remain, which if elucidated, may allow for the development of new ways to efficiently produce clinically-useful stem cell-derived platelets or red blood cells. http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-022.html#sthash.IDhtV41F.dpuf

NHLBI Bench to Bassinet Program Administrative Coordinating Center (U01)
Funding Opportunity Number: (RFA-HL-16-004)
Application Deadline: March 17, 2015
Description: This Funding Opportunity Announcement (FOA) invites applications to participate as the Administrative Coordinating Center (ACC) for the NHLBI Cardiovascular Development Consortium (RFA-HL-15-013) and NHLBI Pediatric Cardiac Genomics Consortium (RFA-HL-15-012). These consortia compose a NHLBI translational program in pediatric cardiovascular disease called the Bench to Bassinet Program (B2B). The B2B was launched by the NHLBI in 2009 as a novel approach to break through the major barriers of translational research, identify the causes of human congenital heart disease, and ultimately improve outcomes for individuals with congenital heart disease. The B2B strategy is to accelerate the translation of scientific discovery into clinical practice through collaborations of basic, translational, and clinical researchers. The consortia interact with each other, and with the NHLBI Pediatric Heart Network (PHN) to encourage translation of results from basic science to clinical research, and to provide clinical input on pressing needs for basic research.
http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-16-004.html#sthash.RZ8DYeoZ.dpuf

Short-Term Research Education Program to Increase Diversity in Health-Related Research (R25)
Funding Opportunity Number: (RFA-HL-16-008)
Application Deadline: September 18, 2017
Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The goal of this NHLBI R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral, and clinical research workforce in the mission areas of importance to NHLBI. To accomplish the stated goal, this funding opportunity announcement encourages the development of creative educational activities with a primary focus on Research Experiences.
http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-16-008.html#sthash.1euWIzdA.dpuf

BRAIN Initiative: Planning for Next Generation Human Brain Imaging (R24)
Funding Opportunity Number: (RFA-MH-15-200)
Application Deadline: March 18, 2015

Description: This funding opportunity announcement (FOA), in support of the NIH Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative, aims to support planning activities and the initial stages of development of entirely new or next generation brain imaging technologies and methods that will lead to transformative advances in our understanding of the human brain.
http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-200.html#sthash.KUd53zY4.dpuf

BRAIN Initiative: New Technologies and Novel Approaches for Large-Scale Recording and Modulation in the Nervous System (U01)
Funding Opportunity Number: (RFA-NS-15-003)
Application Deadline: February 10, 2015
Description: This FOA seeks applications for proof-of-concept testing and development of new technologies and novel approaches for large scale recording and manipulation of neural activity, to enable transformative understanding of dynamic signaling in the nervous system. In particular we seek exceptionally creative approaches to address major challenges associated with recording and manipulating neural activity, at or near cellular resolution, at multiple spatial and/or temporal scales, in any region and throughout the entire depth of the brain. It is expected that the proposed research may be high risk, but if successful could profoundly change the course of neuroscience research. Proposed technologies should be compatible with experiments in behaving animals, and should include advancements that enable or reduce major barriers to hypothesis-driven experiments.
http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-003.html#sthash.6Qyj6vBe.dpuf

BRAIN Initiative: Optimization of Transformative Technologies for Large Scale Recording and Modulation in the Nervous System (U01)
Funding Opportunity Number: (RFA-NS-15-004)
Application Deadline: February 10, 2015
Description: In this FOA we seek applications for the optimization of existing and emerging technologies and approaches that have potential to address major challenges associated with recording and manipulating neural activity, at or near cellular resolution, at multiple spatial and temporal scales, in any region and throughout the entire depth of the brain. This FOA is intended for the iterative refinement of emergent technologies and approaches that have already demonstrated their transformative potential through initial proof-of-concept testing, and are appropriate for accelerated development of hardware and software while scaling manufacturing techniques towards sustainable, broad dissemination and user-friendly incorporation into regular neuroscience practice. Applications that seek to integrate multiple approaches are encouraged. Applications are expected to apply expertise that integrates appropriate domains of expertise, including where appropriate biological, chemical and physical sciences, engineering, computational modeling and statistical analysis.
http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-004.html#sthash.qaDDy3yr.dpuf

BRAIN Initiative: Integrated Approaches to Understanding Circuit Function in the Nervous System (U01)
Funding Opportunity Number: (RFA-NS-15-005)
Application Deadline: February 10, 2015
Description: This FOA seeks applications for exploratory research studies that use new and emerging methods for large scale recording and manipulation of neural circuits across multiple brain regions. Applications should propose to elucidate the contributions of dynamic circuit activity to a specific behavioral or neural system. Studies should incorporate rich information on cell-types, on circuit functionality and connectivity, and should be performed in conjunction with sophisticated analysis of complex, ethologically relevant behaviors. Applications should propose teams of investigators that seek to cross boundaries of interdisciplinary collaboration by bridging fields and linking theory and data analysis to experimental design. Exploratory studies supported by this FOA are intended to develop experimental capabilities and quantitative, theoretical frameworks in preparation for a future competition for large scale awards. http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-005.html#sthash.mLo4qfQ6.dpuf

Promoting Research in Basic Neuroscience (R01)
Funding Opportunity Number: (PAS-15-029)
Application Deadline: Multiple dates, see announcement.
Description: The goal of this Funding Opportunity Announcement (FOA) is to stimulate research addressing fundamental questions in basic neuroscience. Proposed projects can address any area of neuroscience within the

missions of the participating institutes and should focus on understanding the structure and/or function of the normal nervous system. While fundamental basic research often generates insights relevant to disorders of the nervous system, this FOA is not intended to stimulate research that is explicitly disease-related. http://grants.nih.gov/grants/guide/pa-files/PAS-15-029.html#sthash.odc6HD8U.dpuf

Host-Directed TB Therapy: New Approaches (UH2/UH3)
Funding Opportunity Number: RFA-AI-14-058
Application Deadline: March 25, 2015
Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit applications for support of preclinical evaluation, planning for and conduct of proof-of-concept clinical studies for Mycobacterium tuberculosis (TB) treatment that will be applicable in the context of HIV co-infection using host-directed agents already approved for clinical use or in late-stage clinical trials for other conditions. Host-directed therapies (HDT) for TB that may also have activity against HIV, either directly or by enhancing immunologic reactions, are of particular interest. The initial UH2 award (up to two years) will support the development of critical preclinical data, development of study partnerships, and development of the proof-of-concept (POC) trial protocol and all supporting plans and documentation. Once UH2 pre-clinical and clinical milestones have been met, the UH3 award (up to 3 years) may be made to support the planned POC clinical trial. http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-058.html#sthash.4GrTkb00.dpuf

Non-Traditional Therapeutics that Limit Antibacterial Resistance (R21/R33)
Funding Opportunity Number: RFA-AI-14-066
Application Deadline: February 23, 2015
Description: The purpose of this Funding Opportunity Announcement is to solicit applications for early-stage translational research projects focused on discovery and development of novel non-traditional therapeutics that provide alternative treatment modalities for infected patients and address the growing health care threat of increasing antibiotic resistance. http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-066.html#sthash.haOEop60.dpuf

T32 Training Program for Institutions That Promote Diversity (T32)
Funding Opportunity Number: RFA-HL-16-007
Application Deadline: February 18, 2015, September 18, 2015 (resubmissions only), February 18, 2016, September 19, 2016 (resubmissions only); February 18, 2017, September 18, 2017 (resubmissions only) by 5:00 PM local time of applicant organization.
Description: The purpose of this funding opportunity announcement (FOA) is to enhance the participation of individuals from diverse backgrounds underrepresented in cardiovascular, pulmonary, hematologic, and sleep disorders research across the career development continuum. The Program is intended to support training of pre-doctoral and health professional students and individuals in postdoctoral training institutions with an institutional mission focused on serving health disparity populations not well represented in scientific research, or institutions that have been identified by federal legislation as having an institutional mission focused on these populations, with the potential to develop meritorious training programs in cardiovascular, pulmonary, hematologic, and sleep disorders. The primary goals are to: (1) contribute to the expansion of the future pool of individuals from diverse backgrounds underrepresented in research areas of interest to the NHLBI, (2) enable trainees to increase their competitiveness for peer-review research funding, (3) strengthen publication records of trainees, and (4) foster institutional environments conducive to professional development in the biomedical sciences. http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-16-007.html#sthash.pfEgLpGM.dpuf

Cancer Prevention, Control, Behavioral Sciences, and Population Sciences Career Development Award (K07)
Funding Opportunity Number: PAR-15-033
Application Deadline: Multiple dates, see announcement.
Description: The purpose of the Cancer Prevention, Control, Behavioral Sciences, and Population Sciences Career Development Award (K07) is to support the career development of junior investigators with research or health professional doctoral degrees who want to become cancer-focused academic researchers in cancer prevention,

cancer control, or the behavioral or population sciences. http://grants.nih.gov/grants/guide/pa-files/PAR-15-033.html#sthash.DSZq00L6.dpuf

NIDCD Research Career Transition Award for Nurturing Clinician-Investigators (K22)
Funding Opportunity Number: RFA-DC-15-002
Application Deadline: Multiple dates, see announcement.
Description: The purpose of the NIDCD Research Career Transition Award for Nurturing Clinician-Investigators (K22) is to facilitate and support the early-stage research career development of new and recently appointed clinician faculty members with limited research training and experience who seek to forge an independent research career trajectory at academic institutions. This K22 program is intended to provide them with the knowledge, tools and research experience that will enable them to craft an NIDCD mentored clinician-scientist development (K08/K23) award application that is competitive for funding.
http://grants.nih.gov/grants/guide/rfa-files/RFA-DC-15-002.html#sthash.h0050TcW.dpuf

BRAIN Initiative: Development and Validation of Novel Tools to Analyze Cell-Specific and Circuit Specific Processes in the Brain (U01)
Funding Opportunity Number: RFA-MH-15-225
Application Deadline: March 18, 2015
Description: The purpose of this Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative is to encourage applications that will develop and validate novel tools to facilitate the detailed analysis of complex circuits and provide insights into cellular interactions that underlie brain function. The new tools and technologies should inform and/or exploit cell-type and/or circuit-level specificity. Plans for validating the utility of the tool/technology will be an essential feature of a successful application. The development of new genetic and non-genetic tools for delivering genes, proteins and chemicals to cells of interest or approaches that are expected to target specific cell types and/or circuits in the nervous system with greater precision and sensitivity than currently established methods are encouraged. Tools that can be used in a number of species / model organisms rather than those restricted to a single species are highly desired. Applications that provide approaches that break through existing technical barriers to substantially improve current capabilities are highly encouraged.
http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-225.html#sthash.fJKj3CJg.dpuf

Research Aimed at Novel Behavioral Targets to Improve Adolescent Substance Abuse Treatment and Prevention Interventions (R34)
Funding Opportunity Number: PA-15-035
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) is part of a trans-NIH initiative known as Collaborative Research on Addiction at NIH (CRAN). Areas supported by this FOA include research to inform the generation and refinement of novel targets for substance abuse treatment and prevention interventions, modules or adjuncts to existing treatments and prevention interventions that seek to target and modulate behavioral or neurobehavioral processes (e.g., impulsivity, risk-taking propensity, sensation and novelty seeking, distress tolerance, delay discounting, self-regulation, stress reactivity) in adolescents. Additionally, this FOA will encourage studies to include theoretical links that explore the relationship(s) between neural circuitry and treatment and prevention effects, and in particular, how behavioral targets might be affected by treatment and prevention interventions, and how that might be used to improve targeted treatment and prevention development, that translate to reduced morbidity and mortality. http://grants.nih.gov/grants/guide/pa-files/PA-15-035.html#sthash.mhEL78uM.dpuf

Research Aimed at Novel Behavioral Targets to Improve Adolescent Substance Abuse Treatment and Prevention Interventions (R01)
Funding Opportunity Number: PA-15-036
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) is part of a trans-NIH initiative known as Collaborative Research on Addiction at NIH (CRAN). Areas supported by this FOA include research to inform the generation and refinement of novel targets for substance abuse treatment and prevention interventions, modules or adjuncts to existing treatments and prevention interventions that seek to target and modulate behavioral or

neurobehavioral processes (e.g., impulsivity, risk-taking propensity, sensation and novelty seeking, distress tolerance, delay discounting, self-regulation, stress reactivity) in adolescents. Additionally, this FOA will encourage studies to include theoretical links that explore the relationship(s) between neural circuitry and treatment and prevention effects, and in particular, how behavioral targets might be affected by treatment and prevention interventions, and how that might be used to improve targeted treatment and prevention intervention development, that translate to reduced morbidity and mortality. http://grants.nih.gov/grants/guide/pa-files/PA-15-036.html#sthash.0AteYpYT.dpuf

Diabetes and Cardiovascular Disease in Older Adults (R01)
Funding Opportunity Number: PA-15-037
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, and epidemiological outcomes research on the impact of age on the development of, diagnosis, and management of diabetes and cardiovascular disease (CVD) complications in older persons or animal models. Research may focus on, but is not limited to 1) the epidemiology of increasing incidence and prevalence of DM with advancing age, particularly regarding potential racial-ethnic disparities, 2) the elucidation of age-related mechanisms predisposing older adults to diabetes and resultant CVD , 3) understanding the role of aging in increased incidence and severity of CVD outcomes in older diabetics, and 4) determining age-specific prevention, screening, diagnostic, and management strategies of DM in older persons and its CVD complications. Research supported by this initiative is expected to elucidate the role of aging mechanisms that underlie the increased vulnerability of older adults to DM and its CVD complications and to provide evidence-based guidance to improve more appropriate diagnostic criteria, risk stratification, and intervention recommendations to prevent the onset, or improve short- and long-term outcomes, of DM and CVD in older persons. http://grants.nih.gov/grants/guide/pa-files/PA-15-037.html#sthash.3cr4GpiE.dpuf

Diabetes and Cardiovascular Disease in Older Adults (R21)
Funding Opportunity Number: PA-15-038
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, and epidemiological outcomes research on the impact of age on the development of, diagnosis, and management of diabetes and cardiovascular disease (CVD) complications in older persons or animal models. Research may focus on, but is not limited to 1) the epidemiology of increasing incidence and prevalence of DM with advancing age, particularly regarding potential racial-ethnic disparities, 2) the elucidation of age-related mechanisms predisposing older adults to diabetes and resultant CVD , 3) understanding the role of aging in increased incidence and severity of CVD outcomes in older diabetics, and 4) determining age-specific prevention, screening, diagnostic, and management strategies of DM in older persons and its CVD complications. Research supported by this initiative is expected to elucidate the role of aging mechanisms that underlie the increased vulnerability of older adults to DM and its CVD complications and to provide evidence-based guidance to improve more appropriate diagnostic criteria, risk stratification, and intervention recommendations to prevent the onset, or improve short- and long-term outcomes, of DM and CVD in older persons. http://grants.nih.gov/grants/guide/pa-files/PA-15-038.html#sthash.USpJ7Srz.dpuf

Diabetes and Cardiovascular Disease in Older Adults (R03)
Funding Opportunity Number: PA-15-039
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, and epidemiological outcomes research on the impact of age on the development of, diagnosis, and management of diabetes and cardiovascular disease (CVD) complications in older persons or animal models. Research may focus on, but is not limited to 1) the epidemiology of increasing incidence and prevalence of DM with advancing age, particularly regarding potential racial-ethnic disparities, 2) the elucidation of age-related mechanisms predisposing older adults to diabetes and resultant CVD , 3) understanding the role of aging in increased incidence and severity of CVD outcomes in older diabetics, and 4) determining age-specific prevention, screening, diagnostic, and management strategies of DM in older persons and its CVD complications. Research supported by this initiative is expected to elucidate the role of aging mechanisms that underlie the increased vulnerability of older adults to DM

and its CVD complications and to provide evidence-based guidance to improve more appropriate diagnostic criteria, risk stratification, and intervention recommendations to prevent the onset, or improve short- and long-term outcomes, of DM and CVD in older persons. http://grants.nih.gov/grants/guide/pa-files/PA-15-039.html#sthash.Kcwxxbbn.dpuf

Family and Interpersonal Relationships in an Aging Context (R01)
Funding Opportunity Number: PA-15-042
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) encourages innovative, hypothesis-driven R01 research grant applications that can expand understanding of the role and impact of families and interpersonal relationships on health and well-being in midlife and older age.
http://grants.nih.gov/grants/guide/pa-files/PA-15-042.html#sthash.8ihIwylh.dpuf

Investigator Initiated Extended Clinical Trial (R01)
Funding Opportunity Number: PAR-15-040
Application Deadline: March 6, 2015; December 4, 2015
Description: This Funding Opportunity Announcement (FOA) invites applications for implementation of investigator-initiated clinical trials requiring an extended project period of 6 or 7 years. The trials can be any phase, must be hypothesis-driven, and related to the research mission of one of the participating ICs. Consultation with IC staff is strongly encouraged prior to the submission of the clinical trial implementation application. This FOA is not intended for support of clinical trials that do not require an extended project period of 6 or 7 years.
http://grants.nih.gov/grants/guide/pa-files/PAR-15-040.html#sthash.J8zcTUJB.dpuf

Targeting Persistent HIV Reservoirs (TaPHIR) (R21/R33)
Funding Opportunity Number: PAR-15-041
Application Deadline: April 7, 2015, April 7, 2016, April 7, 2017
Description: The purpose of this Funding Opportunity Announcement (FOA) is to stimulate the development of innovative tools and strategies for curing HIV infection. HIV establishes latent infection in long-lived cells that form a reservoir of virus that persists in infected individuals even after years of treatment with highly active antiretroviral therapy (HAART). Curing HIV infection requires innovative strategies to identify and eliminate these reservoir cells. The task is especially difficult given the lack of HIV protein expression during latency and the low frequency of latently infected cells during treatment. Novel approaches are therefore sought to efficiently monitor and specifically target reservoirs of latently infected cells to facilitate the testing of strategies to cure HIV infection in vivo. http://grants.nih.gov/grants/guide/pa-files/PAR-15-041.html#sthash.kiBWNJ1Y.dpuf

Systems Science and Health in the Behavioral and Social Sciences (R21)
Funding Opportunity Number: PAR-15-047
Application Deadline: Multiple dates, see announcement.
Description: This FOA is intended to increase the breadth and scope of topics that can be addressed with systems science methodologies. This FOA calls for research projects that are applied and/or basic in nature (including methodological and measurement development), have a human behavioral and/or social science focus, and employ methodologies suited to addressing the complexity inherent in behavioral and social phenomena, referred to as systems science methodologies. Additionally, this FOA seeks to promote interdisciplinary collaboration among health researchers and experts in computational approaches to further the development of modeling- and simulation-based systems science methodologies and their application to important public health challenges.
http://grants.nih.gov/grants/guide/pa-files/PAR-15-047.html#sthash.rzBH2O83.dpuf

Systems Science and Health in the Behavioral and Social Sciences (R01)
Funding Opportunity Number: PAR-15-048
Application Deadline: Multiple dates, see announcement.
Description: This FOA is intended to increase the breadth and scope of topics that can be addressed with systems science methodologies. This FOA calls for research projects that are applied and/or basic in nature (including methodological and measurement development), have a human behavioral and/or social science focus, and employ methodologies suited to addressing the complexity inherent in behavioral and social phenomena, referred to as

systems science methodologies. Additionally, this FOA seeks to promote interdisciplinary collaboration among health researchers and experts in computational approaches to further the development of modeling- and simulation-based systems science methodologies and their application to important public health challenges. http://grants.nih.gov/grants/guide/pa-files/PAR-15-048.html#sthash.ySUVFS6m.dpuf

Centers for Common Disease Genomics (UM1)
Funding Opportunity Number: RFA-HG-15-001
Application Deadline: April 7, 2015
Description: The National Human Genome Research Institute (NHGRI) seeks to fund a collaborative large-scale genome sequencing effort to comprehensively identify rare risk and protective variants contributing to multiple common disease phenotypes. This initiative will explore a range of diseases with the ultimate goal of undertaking variant discovery for enough different examples of disease architectures and study designs to better understand the general principles of genomic architecture underlying common, complex inherited diseases; understand how best to design rare variant studies for common disease; and develop resources, informatics tools, and innovative approaches and technologies for multiple disease research communities and the wider biomedical research community. http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-15-001.html#sthash.gJTxbHQJ.dpuf

Centers for Mendelian Genomics (UM1)
Funding Opportunity Number: RFA-HG-15-002
Application Deadline: April 7, 2015
Description: This FOA invites applications for the Centers for Mendelian Genomics Program (CMG Program). With this reissuance, NHGRI intends to achieve the following specific objectives. First, the Program will aim to discover as many genes that bear causal genetic variants ("causal genes") for human Mendelian diseases and non-disease Mendelian traits ("Mendelian conditions") as possible, using genome-wide sequencing and other complementary genomic approaches at the funded centers, and through collaborations with clinical and genetic researchers worldwide. Second, the Program will aim to enhance the chances of success in causal gene discoveries by improving sample solicitation strategies, discovery approaches, study designs, data analysis methods, and costs and efficiency of the discovery pipelines. Third, the Program will aim to enable others to discover more causal genes by disseminating the methods, tools, and other resources that will be developed under this FOA. Finally, the Program will facilitate common interests-based collaborations and avoid unproductive duplication of efforts on causal gene discoveries, through worldwide coordination. At a higher level, NHGRI intends that these activities will lead to insights on what methods, scale, and infrastructure will be necessary to discover all or most of the causal genes for human Mendelian conditions, and bring the field forward toward this goal.
http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-15-002.html#sthash.fj5VOPrm.dpuf

Creating Asthma Empowerment Collaborations to Reduce Childhood Asthma Disparities (U34)
Funding Opportunity Number: RFA-HL-15-028
Application Deadline: February 20, 2015
Description: The purpose of this FOA is to support investigators planning a clinical trial to evaluate Asthma Care Implementation Programs (ACIP) for children at high risk of poor asthma outcomes. Investigators must propose an ACIP for this population that translates research into community practice by integrating interventions with demonstrated efficacy from multiple sectors into a comprehensive program. Each proposed evidence-based intervention within the ACIP must address at least one of the following different sectors that can contribute to a system of care for children: medical care, family, home, and community. http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-028.html#sthash.PQOPfSSD.dpuf

Asthma Empowerment Collaborations to Reduce Childhood Asthma Disparities (U01)
Funding Opportunity Number: RFA-HL-17-001
Application Deadline: November 16, 2016
Description: The purpose of this FOA is to support clinical trials to evaluate Asthma Care Implementation Programs (ACIP) that provide comprehensive care for children at high risk of poor asthma outcomes. The community-based ACIPs are expected to address the needs of the U.S. community in which the study will be conducted and integrate interventions with demonstrated efficacy from four different sectors (medical care, family, home, and community). Applications must include a trial designed to assess if the ACIP improves asthma outcomes

relative to an appropriate comparator(s) and a subsequent period of observation to evaluate sustainability. While there are several other necessary elements of the trials, it is critical that the outcomes/endpoints include measures of the process used to implement the evidence based interventions. The ACIP will involve investigators who have established collaborations with representatives from the four sectors who have committed resources to the ACIP. Given the potential impact of the interventions on the local community, the sustainability of the program will be formally assessed during the project period. Finally, investigators must plan for dissemination of the program beyond their own community. This initiative is designed as a cooperative agreement to enable collaboration among investigators on the implementation metrics to be used, the quality improvement efforts to be conducted throughout the funding period, and how to establish best practices. http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-17-001.html#sthash.iLIt9YVw.dpuf

Unconventional Roles of Ethanol Metabolizing Enzymes, Metabolites, and Cofactors in Health and Disease (R21)
Funding Opportunity Number: PA-15-057
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this FOA is to provide support for integrated, innovative research on the novel and unconventional contributions of ethanol metabolizing pathways, their metabolites, cofactors, and interactions with synergizing biological pathways in the development of alcohol- induced diseases and end organ injuries. It is anticipated that research supported under this FOA will generate data that lead to breakthroughs in identification and understanding of key cellular and molecular components in the initiation, progression and maintenance of the diverse medical disorders caused by excessive or long term alcohol consumption. This knowledge is critical for the diagnosis, treatment and management of vulnerable patient populations debilitated by the vast array of alcohol-induced pathologies and will enable clinicians to improve disease outcomes and, consequently, public health. http://grants.nih.gov/grants/guide/pa-files/PA-15-057.html#sthash.wcX3gBkM.dpuf

Unconventional Roles of Ethanol Metabolizing Enzymes, Metabolites, and Cofactors in Health and Disease (R01)
Funding Opportunity Number: PA-15-058
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this FOA is to provide support for integrated, innovative research on the novel and unconventional contributions of ethanol metabolizing pathways, their metabolites, cofactors, and interactions with synergizing biological pathways in the development of alcohol- induced diseases and end organ injuries. It is anticipated that research supported under this FOA will generate data that leads to breakthroughs in identification and understanding of key cellular and molecular components in the initiation, progression and maintenance of the diverse medical disorders caused by excessive or long term alcohol consumption. This knowledge is critical for the diagnosis, treatment and management of vulnerable patient populations debilitated by the vast array of alcohol-induced pathologies and will enable clinicians to improve disease outcomes and, consequently, public health. http://grants.nih.gov/grants/guide/pa-files/PA-15-058.html#sthash.BpRnRpnY.dpuf

NIMH Administrative Supplement Program Providing Research Experiences for Physicians and Medical Students from Diverse Backgrounds
Funding Opportunity Number: PA-15-069
Application Deadline: Multiple dates, see announcement.
Description: The purpose of the NIMH Administrative Supplement Providing Research Experiences for Physicians and Medical Students from Diverse Backgrounds is to support advanced research experiences for outstanding early career physicians and medical students from underrepresented backgrounds. This program aims to increase the opportunities available for individuals from underrepresented backgrounds working in the mental health research workforce by recruiting and supporting outstanding physician-scientists and medical students. The proposed research experience must be an integral part of the approved research of the parent grant and must have the potential to contribute significantly to the candidate's research career. http://grants.nih.gov/grants/guide/pa-files/PA-15-069.html#sthash.ZYLeMKQp.dpuf

The NCI Transition Career Development Award (K22)
Funding Opportunity Number: PAR-15-056

Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) represents the continuation of an NCI program to facilitate the transition of investigators in mentored, non-independent cancer research positions to independent faculty cancer research positions. This goal is achieved by providing protected time through salary and research support for the initial 3 years of the first independent tenure-track faculty position, or its equivalent, beginning at the time when the candidate starts a tenure-track faculty position. http://grants.nih.gov/grants/guide/pa-files/PAR-15-056.html#sthash.yMtA8ZH8.dpuf

NIDCR Clinical Trial or Biomarker Clinical Validation Study Cooperative Agreement (U01)
Funding Opportunity Number: PAR-15-059
Application Deadline: Multiple dates, see announcement.
Description: This FOA issued by the National Institute of Dental and Craniofacial Research (NIDCR) will support investigator-initiated Phase I, II, III or IV clinical trials, stage 1-4 behavioral or social intervention trials, or biomarker validation studies that require prospective collection of clinical outcomes and clinical specimens through the cooperative agreement funding mechanism. http://grants.nih.gov/grants/guide/pa-files/PAR-15-059.html#sthash.5hx9K7IM.dpuf

NCI Mentored Clinical Scientist Research Career Development Award to Promote Diversity (K08)
Funding Opportunity Number: PAR-15-060
Application Deadline: Multiple dates, see announcement.
Description: The purpose of the NCI Mentored Clinical Scientist Career Development Award (K08) program is to prepare individuals for careers that have a significant impact on the health-related research needs of the nation. The NCI-sponsored K08 award is specifically designed to promote career development of clinical scientists from diverse backgrounds that have been shown to be underrepresented in health-related science and for those who are committed to a career in basic biomedical, behavioral or translational cancer research, including research on cancer health disparities. The expectation is that through this sustained period of research career development and training, awardees will develop enhanced research capabilities for cancer research careers and be better prepared to compete for research project grants (e.g. R03, R21, or R01) funding. http://grants.nih.gov/grants/guide/pa-files/PAR-15-060.html#sthash.gHRgrAwb.dpuf

NCI Mentored Patient-Oriented Research Career Development Award to Promote Diversity (K23)
Funding Opportunity Number: PAR-15-062
Application Deadline: Multiple dates, see announcement.
Description: The NCI's Diversity Training Branch (DTB) and the Center to Reduce Cancer Health Disparities (CRCHD) announce the availability of the "Mentored Patient-Oriented Research Award to Promote Diversity" for career development of individuals with a health professional doctoral degree from groups currently underrepresented on a national level in the biomedical, clinical, behavioral, and social sciences. The NCI recognizes a unique and compelling need to promote diversity in the patient-oriented research workforce. http://grants.nih.gov/grants/guide/pa-files/PAR-15-062.html#sthash.4n793TZu.dpuf

NCI Transition Career Development Award to Promote Diversity (K22)
Funding Opportunity Number: PAR-15-063
Application Deadline: Multiple dates, see announcement.
Description: The Diversity Training Branch (DTB), the Center to Reduce Cancer Health Disparities (CRCHD) (http://crchd.cancer.gov/) invites applications from recipients of the NCI Mentored Career Development Award to Promote Diversity, or from advanced postdoctoral and/or newly independent research scientists who are from backgrounds underrepresented in biomedical, behavioral, clinical, and/or social sciences. This award provides "protected time" through salary and research support for the initial 3 years of the first independent tenure-track faculty position, or its equivalent. Appropriate K22 applications are expected, but not required, to address problems that are pertinent to cancer health disparities and the biology, etiology, pathogenesis, prevention, diagnosis, control, and/or treatment of human cancer.http://grants.nih.gov/grants/guide/pa-files/PAR-15-063.html#sthash.dzDL7oav.dpuf

NCI Mentored Research Scientist Development Award to Promote Diversity (K01)
Funding Opportunity Number: PAR-15-064
Application Deadline: Multiple dates, see announcement.
Description: The purpose of the NCI Mentored Research Scientist Development Award (K01) is to enhance the diversity of the NCI-funded cancer research workforce by supporting eligible individuals from groups that have been shown to be underrepresented in the biomedical, behavioral, social and clinical sciences. This FOA provides salary and research support for a sustained period of "protected time" for intensive research career development under the guidance of an experienced mentor, or sponsor. The Diversity Training Branch (DTB) of the Center to Reduce Cancer Health Disparities (CRCHD), at the National Cancer Institute (NCI), invites career development award applications (K01) from individuals from backgrounds that have been shown to be underrepresented in health-related science. http://grants.nih.gov/grants/guide/pa-files/PAR-15-064.html#sthash.bmMsq41F.dpuf

NIDDK Multi-Center Clinical Study Cooperative Agreement (U01)
Funding Opportunity Number: PAR-15-067
Application Deadline: Multiple dates, see announcement.
Description: This FOA invites applications for investigator-initiated, multi-center clinical studies. Proposed studies should be hypothesis-driven and focus on a disease relevant to the mission of NIDDK. Planning activities must be completed prior to submission and are not permitted under this FOA. Applicants who require a planning phase may first apply for an implementation planning cooperative agreement (U34; see PAR-15-068). Consultation with NIDDK Scientific/Research staff is strongly encouraged prior to the submission of either a U34 or U01 application. http://grants.nih.gov/grants/guide/pa-files/PAR-15-067.html#sthash.ThAgd6yr.dpuf

NIDDK Multi-Center Clinical Study Implementation Planning Cooperative Agreements (U34)
Funding Opportunity Number: PAR-15-068
Application Deadlines: June 17, 2015; April 18, 2016; January 20, 2017; June 19, 2017 AIDS Application Due Date(s): February 19, 2015; September 7, 2015; May 7, 2016; January 20, 2017; September 7, 2017
Description: NIDDK supports investigator-initiated, multi-center (three or more sites) clinical studies through a two-part process that may include an implementation planning cooperative agreement (U34). The U34 is designed to: (1) Permit early peer review of the rationale for the proposed clinical study; (2) Permit assessment of the design and protocol of the proposed study; (3) Provide support for the development of documents needed for the conduct of the study, including a manual of operations; and (4) Support the development of other essential elements required for the conduct of a clinical study. The proposed clinical study should be hypothesis-driven and focus on a disease relevant to the mission of NIDDK. Consultation with NIDDK Scientific/Research staff is strongly encouraged prior to the submission of the U34 application. http://grants.nih.gov/grants/guide/pa-files/PAR-15-068.html#sthash.4qIMvQbA.dpuf

Innovation Grants to Nurture Initial Translational Efforts (IGNITE): Assay Development and Therapeutic Agent Identification and Characterization to Support Therapeutic Discovery (R21/R33)
Funding Opportunity Number: PAR-15-070
Application Deadline: Multiple dates, see announcement.
Description: This funding opportunity announcement (FOA) encourages research grant applications to develop in vitro and/or ex vivo assays and conduct iterative screening efforts to identify and characterize potential therapeutic agents for neurological disorders. This FOA is part of a suite of Innovation Grants to Nurture Initial Translational Efforts (IGNITE) to advance projects to the point where they can meet the entry criteria for NINDS Cooperative Research to Enable and Advance Translational Enterprises program (CREATE) for biologics, biotechnology products, the Blueprint Neurotherapeutics Network (BPN) for small molecules, or other translational program. http://grants.nih.gov/grants/guide/pa-files/PAR-15-070.html#sthash.J3MHmWMo.dpuf

Innovation Grants to Nurture Initial Translational Efforts (IGNITE): Pharmacodynamics and In vivo Efficacy Studies for Small Molecules and Biologics/Biotechnology Products (R21/R33)
Funding Opportunity Number: PAR-15-071
Application Deadline: Multiple dates, see announcement.
Description: This FOA provides funding to conduct pharmacodynamics, pharmacokinetics, and in vivo efficacy studies to demonstrate that proposed therapeutic agent(s) have sufficient biological activity to warrant further

development to treat neurological disorders. Therapeutic agents may include but are not limited to small molecules, biologics or biotechnology-derived products. This FOA is part of a suite of Innovation Grants to Nurture Initial Translational Efforts (IGNITE) to advance projects to the point where they can meet the entry criteria for NINDS Cooperative Research to Enable and Advance Translational Enterprises program (CREATE) for biologics, biotechnology products, the Blueprint Neurotherapeutics Network (BPN) for small molecules, or other translational program. http://grants.nih.gov/grants/guide/pa-files/PAR-15-071.html#sthash.KxYsq1eR.dpuf

Innovative Molecular Analysis Technologies for Cancer Research (R21)
Funding Opportunity Number: RFA-CA-15-002
Application Deadline: March 17, 2015; June 17, 2015; September 22, 2015, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
Description: This Funding Opportunity Announcement (FOA) solicits grant applications proposing exploratory research focused on the inception and early-stage development of highly innovative molecular or cellular analysis technologies for basic and clinical cancer research. The emphasis of this FOA is on supporting the development of novel molecular and cellular analysis capabilities with a high degree of technical innovation with the potential to significantly affect and transform investigations exploring the molecular and cellular basis of cancer. If successful, these technologies should accelerate and/or enhance research in the areas of cancer biology, early detection and screening, clinical diagnosis, treatment, epidemiology, and/or cancer health disparities.
http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-15-002.html#sthash.riUnIit2.dpuf

Advanced Development and Validation of Emerging Molecular Analysis Technologies for Cancer Research (R33)
Funding Opportunity Number: RFA-CA-15-003
Application Deadline: March 17, 2015; June 17, 2015; September 22, 2015, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
Description: This Funding Opportunity Announcement (FOA) solicits grant applications proposing research projects on the advanced development of emerging molecular and cellular analysis technologies and validation in an appropriate cancer-relevant biological system. An emerging technology is defined as one that has passed the pilot developmental stage and shows promise, but has not yet been significantly evaluated within the context of its intended use. If successful, these technologies would accelerate research in cancer biology, cancer treatment and diagnosis, early detection and screening, cancer control and epidemiology, and/or cancer health disparities. This FOA solicits R33 applications where proof-of-principle of the proposed technology or methodology has been established and supportive preliminary data are available. Projects proposed to this FOA should reflect the potential to produce a molecular analysis technology with a major impact in cancer-relevant research. Projects proposing to use established technologies where the novelty resides in the biological or clinical question being pursued are not appropriate for this FOA and will not be reviewed. This funding opportunity is part of a broader NCI-sponsored Innovative Molecular Analysis Technologies (IMAT) Program. http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-15-003.html#sthash.5yLjTsYp.dpuf

Innovative Technologies for Cancer-Relevant Biospecimen Science (R21)
Funding Opportunity Number: RFA-CA-15-004
Application Deadline: March 17, 2015; June 17, 2015; September 22, 2015, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
Description: This Funding Opportunity Announcement (FOA) solicits grant applications proposing exploratory research projects on the inception and early-stage development of technologies that address issues related to pre-analytical degradation of targeted analytes during the collection, processing, handling, and storage of cancer-relevant biospecimens. The overall goal is to support the development of highly innovative technologies capable of interrogating and/or maximizing the quality and utility of biospecimens or samples derived from those biospecimens for downstream analyses. This FOA will support the development of tools, devices, instrumentation, and associated methods to assess sample quality, preserve/protect sample integrity, and establish verification criteria for quality assessment/quality control and handling under diverse conditions. These technologies are

expected to potentially accelerate and/or enhance research in cancer biology, early detection, screening, clinical diagnosis, treatment, epidemiology, and cancer health disparities, by reducing pre-analytical variations that affect biospecimen sample quality. http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-15-004.html#sthash.YjmOHOsF.dpuf

Advanced Development and Validation of Emerging Technologies for Cancer-Relevant Biospecimen Science (R33)
Funding Opportunity Number: RFA-CA-15-005
Application Deadline: March 17, 2015; June 17, 2015; September 22, 2015, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
Description: This Funding Opportunity Announcement (FOA) solicits grant applications proposing research projects on the advanced development and validation of technologies that address issues related to pre-analytical degradation of targeted analytes during the collection, processing, handling, and storage of cancer-relevant biospecimens. Applications must include preliminary data sufficient to justify the feasibility of the proposed technology, but may still require additional development to reach a generally useful level of functionality for cancer-related research applications. The overall goal is to support the development of highly innovative technologies capable of interrogating and/or maximizing the quality and utility of biospecimens or samples derived from those biospecimens for downstream analyses. This FOA will support the development of tools, devices, instrumentation, and associated methods to assess sample quality, preserve/protect sample integrity, and establish verification criteria for quality assessment/quality control and handling under diverse conditions. These technologies are expected to potentially accelerate and/or enhance research in cancer biology, early detection, screening, clinical diagnosis, treatment, epidemiology, and cancer health disparities, by reducing pre-analytical variations that affect biospecimen sample quality. http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-15-005.html#sthash.S61jCvgv.dpuf

Integration of Infectious Diseases and Substance Abuse Intervention Services for Individuals Living with HIV (R01)
Funding Opportunity Number: RFA-DA-15-013
Application Deadline: April 14, 2015
Description: The goal of this FOA is to develop and test organizational and systems level interventions to determine how best to provide comprehensive, high quality, integrated, sustainable, cost-effective interventions to improve the health outcomes of PLWH with substance use disorders and other comorbid conditions. This FOA will support: 1) multidisciplinary research to enhance the adoption and integration of evidence-based screening and treatment of substance abuse in HIV centers and closely related medical settings; and 2) multidisciplinary research to increase the adoption and integration of HIV testing and linkage to HIV care in addiction treatment settings. In both HIV and addiction treatment settings, research to enhance the adoption and integration of treatment services for comorbid conditions (e.g. co-infections, psychiatric disorders) is encouraged.
http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-15-013.html#sthash.Iehk7OHJ.dpuf

Seek, Test, Treat and Retain For Youth and Young Adults Living with or at High Risk for Acquiring HIV (R01)
Funding Opportunity Number: RFA-DA-15-019
Application Deadline: April 14, 2015
Description: The purpose of this Funding Opportunity Announcement (FOA) is to examine delivery models of HIV-focused services (testing, linkage, engagement and retention in care) for high risk or already HIV+ infected youth and young adults. Applications should incorporate substance use into study aims and service delivery objectives should address access to substance use prevention, screening, and treatment. Applications examining interventions that focus only on individual-level behavior and outcomes will be considered non-responsive, given the systemic and structural determinants of serostatus screening, treatment retention and viral suppression, which are the most striking areas of deficit among youth in the Seek, Test, Treat, and Retain continuum of care. The developmental, structural, and systemic factors related to serving youth need to be clearly incorporated into study aims, rather than simple incremental refocusing of existing interventions to younger people.

http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-15-019.html#sthash.kLRG4PLO.dpuf

Pharmacogenomics of Orofacial Pain Management (R01)
Funding Opportunity Number: RFA-DE-16-001
Application Deadline: June 24, 2015
Description: The goal of this funding opportunity announcement (FOA) is to encourage research on the genetic basis of variability in therapeutic drug responses and adverse events in individuals with painful conditions of the dental, and orofacial region. The objectives are to determine the role of genetic variability in pharmacokinetics, pharmacodynamics, and drug toxicities that contribute to and predict the clinical outcomes of analgesic treatment of individuals with acute and chronic pain conditions. Delineation of genetic variation in drug and neurotransmitter metabolizing enzymes and transporters, drug target molecules such as enzymes and receptors, and associated post-receptor intracellular signaling pathway molecules is an important outcome of this FOA. Identification of key molecular signatures that are predictive of a therapeutic response is a second objective. Clinical and basic science researchers are encouraged to form multidisciplinary teams to effectively address the goals of this FOA. The ability to categorize individuals who differ in their responses to analgesic therapy will aid health care providers in their ability to prescribe the best treatments for acute and chronic pain patients with a personalized/ precision approach. Although this FOA is focused on orofacial pain, it also may serve as a catalyst for the pain research community to explore new pharmacogenomics studies in chronic pain conditions that overlap with temporomandibular joint disorder. http://grants.nih.gov/grants/guide/rfa-files/RFA-DE-16-001.html#sthash.siMRRiOB.dpuf

NIH Science of Behavior Change Resource and Coordinating Center (U24)
Funding Opportunity Number: RFA-RM-14-017
Application Deadline: March 20, 2015
Description: This U24 Cooperative Agreement Funding Opportunity Announcement (FOA) will support the NIH Science of Behavior Change (SOBC) Resource and Coordinating Center (RCC), which will coordinate the activities of between five and nine UH2/UH3 Target Validation Projects. The initial UH2/UH3 awards will be made in response to three companion FOAs (RFA-RM-14-018, RFA-RM-14-019, RFA-RM-14-020) that will focus on identifying and validating targets in the three specific behavioral domains of self-regulation, stress reactivity and stress resilience, and interpersonal and social processes. The overall goal of the SOBC Program is to transform behavioral intervention designs by implementing the experimental medicine approach to behavior change research. The overall goal of the RCC will be to provide national leadership for the coordinated efforts of projects and initiatives of SOBC to validate assays for behavior change, with five specific objectives described in this FOA. The RCC will also serve as the central resource for the organization of the meetings and other activities of the SOBC program, including the support of its Steering Committee and External Scientific Panel, and any SOBC steering committee subcommittees that are established.
SOBC Website: http://www.commonfund.nih.gov/behaviorchange/
FAQs: http://www.commonfund.nih.gov/behaviorchange/faq/
http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-14-017.html#sthash.QAG7KLyJ.dpuf

Science of Behavior Change: Assay Development and Validation for Interpersonal and Social Processes Targets (UH2/UH3)
Funding Opportunity Number: RFA-RM-14-018
Application Deadline: March 20, 2015
Description: This Phased Innovation Awards Cooperative Agreement Funding Opportunity Announcement (FOA) solicits applications to support a collaborative research infrastructure involving an interdisciplinary team of basic and clinical scientists to develop the foundation for an experimental medicine approach to behavior change. Research supported by this FOA is meant to support activities focused on behavior change targets in the domain of interpersonal and social processes through four main target validation steps:

1. Identify a set of putative targets within the interpersonal and social processes domain that are implicated in medical regimen adherence and at least one other health behavior;
2. Leverage existing or develop new experimental or intervention approaches to engage identified targets;
3. Identify or develop appropriate assays (measures) to permit verification of target engagement;

4. Test the degree to which engaging identified targets produces a desired change in medical regimen adherence and at least one other health behavior. While testing target engagement in specific clinical samples is permitted, the targets identified and the behavior change outcomes measured should be selected based on their hypothesized relevance to at least two clinical endpoints or disease conditions.

Please refer to the Science of Behavior Change (SOBC) website regularly for updates, frequently asked questions (FAQs), and other announcements related to this FOA and the companion FOAs. SOBC Website: http://www.commonfund.nih.gov/behaviorchange/ FAQs: http://www.commonfund.nih.gov/behaviorchange/faq/ http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-14-018.html#sthash.XJZpg8SD.dpuf

Science of Behavior Change: Assay Development and Validation for Stress Reactivity and Stress Resilience Targets (UH2/UH3)
Funding Opportunity Number: RFA-RM-14-019
Application Deadline: March 20, 2015
Description: This Phased Innovation Awards Cooperative Agreement Funding Opportunity Announcement (FOA) solicits applications to support a collaborative research infrastructure involving an interdisciplinary team of basic and clinical scientists to develop the foundation for an experimental medicine approach to behavior change. Research supported by this FOA is meant to support activities focused on behavior change targets in the domain of stress reactivity and stress resilience through four main target validation steps:

1. Identify a set of putative targets within the stress reactivity and stress resilience domain that are implicated in medical regimen adherence and at least one other health behavior;
2. Leverage existing or develop new experimental or intervention approaches to engage identified targets;
3. Identify or develop appropriate assays (measures) to permit verification of target engagement;
4. Test the degree to which engaging identified targets produces a desired change in medical regimen adherence and at least one other health behavior. While testing target engagement in specific clinical samples is permitted, the targets identified and the behavior change outcomes measured should be selected based on their hypothesized relevance to at least two clinical endpoints or disease conditions.

Please refer to the Science of Behavior Change (SOBC) website regularly for updates, frequently asked questions (FAQs), and other announcements related to this FOA and the companion FOAs. SOBC Website: http://www.commonfund.nih.gov/behaviorchange/ FAQs: http://www.commonfund.nih.gov/behaviorchange/faq/ http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-14-018.html#sthash.XJZpg8SD.dpuf

Science of Behavior Change: Assay Development and Validation for Self-Regulation Targets (UH2/UH3)
Funding Opportunity Number: RFA-RM-14-020
Application Deadline: March 20, 2015
Description: This Phased Innovation Awards Cooperative Agreement Funding Opportunity Announcement (FOA) solicits applications to support a collaborative research infrastructure involving an interdisciplinary team of basic and clinical scientists to develop the foundation for an experimental medicine approach to behavior change. Research supported by this FOA is meant to support activities focused on behavior change targets in the domain of self-regulation through four main target validation steps:

1. Identify a set of putative targets within the self-regulation domain that are implicated in medical regimen adherence and at least one other health behavior;
2. Leverage existing or develop new experimental or intervention approaches to engage identified targets;
3. Identify or develop appropriate assays (measures) to permit verification of target engagement;
4. Test the degree to which engaging identified targets produces a desired change in medical regimen adherence and at least one other health behavior. While testing target engagement in specific clinical samples is permitted, the targets identified and the behavior change outcomes measured should be selected based on their hypothesized relevance to at least two clinical endpoints or disease conditions.

Please refer to the Science of Behavior Change (SOBC) website regularly for updates, frequently asked questions (FAQs), and other announcements related to this FOA and the companion FOAs. SOBC Website: http://www.commonfund.nih.gov/behaviorchange/ FAQs: http://www.commonfund.nih.gov/behaviorchange/faq/ http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-14-018.html#sthash.XJZpg8SD.dpuf

Drug Abuse Prevention Intervention Research (R21)
Funding Opportunity Number: PA-15-080
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) encourages R21 grant applications for research that will employ rigorous scientific methods to test theoretically derived hypotheses to increase understanding of the science of drug use prevention within diverse populations and settings and across the lifespan. The FOA seeks applications that encompass investigations of cognitive, behavioral, and social processes as they relate to: 1) development of novel prevention approaches; 2) efficacy and effectiveness of prevention interventions or programs; 3) processes that optimize the selection, integration, implementation and sustainability of science-based prevention, including systems-level and health economic factors; and 4) methodologies appropriate for studying complex aspects of prevention science. http://grants.nih.gov/grants/guide/pa-files/PA-15-080.html#sthash.36FVWeHZ.dpuf

Drug Abuse Prevention Intervention Research (R03)
Funding Opportunity Number: PA-15-081
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) encourages R03 grant applications for research that will employ rigorous scientific methods to test theoretically derived hypotheses to increase understanding of the science of drug use prevention within diverse populations and settings and across the lifespan. The FOA seeks applications that encompass investigations of cognitive, behavioral, and social processes as they relate to: 1) development of novel prevention approaches; 2) efficacy and effectiveness of prevention interventions or programs; 3) processes that optimize the selection, integration, implementation and sustainability of science-based prevention, including systems-level and health economic factors; and 4) methodologies appropriate for studying complex aspects of prevention science. http://grants.nih.gov/grants/guide/pa-files/PA-15-081.html#sthash.MyQB3Zlz.dpuf

Drug Abuse Prevention Intervention Research (R01)
Funding Opportunity Number: PA-15-082
Application Deadline: Multiple dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) encourages R01 grant applications for research that will employ rigorous scientific methods to test theoretically derived hypotheses to increase understanding of the science of drug use prevention within diverse populations and settings and across the lifespan. The FOA seeks applications that encompass investigations of cognitive, behavioral, and social processes as they relate to: 1) development of novel prevention approaches; 2) efficacy and effectiveness of prevention interventions or programs; 3) processes that optimize the selection, integration, implementation and sustainability of science-based prevention, including systems-level and health economic factors; and 4) methodologies appropriate for studying complex aspects of prevention science. http://grants.nih.gov/grants/guide/pa-files/PA-15-082.html#sthash.TXzUN5CW.dpuf

NIH Pathway to Independence Award (Parent K99/R00)
Funding Opportunity Number: PA-15-083
Application Deadline: Multiple receipt dates, see announcement.
Description: The purpose of the NIH Pathway to Independence Award (K99/R00) program is to increase and maintain a strong cohort of new and talented, NIH-supported, independent investigators. This program is designed to facilitate a timely transition of outstanding postdoctoral researchers from mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions, and to provide independent NIH research support during the transition that will help these individuals launch competitive, independent research careers. Prospective candidates are strongly encouraged to contact the relevant NIH staff for IC-specific programmatic and budgetary information: Table of IC-Specific Information, Requirements and Staff Contacts. http://grants.nih.gov/grants/guide/pa-files/PA-15-083.html#sthash.fremK4dG.dpuf

NIA Academic Leadership Career Award (K07)
Funding Opportunity Number: PAR-15-078
Application Deadline: Multiple dates, see announcement.
Description: The objective of the NIA Research Leadership Career Award (K07) is to provide support for more senior investigators who have the expertise and leadership skills to enhance the aging and geriatric research capacity within their academic institution. http://grants.nih.gov/grants/guide/pa-files/PAR-15-078.html#sthash.87Q5C0SZ.dpuf

Cutting-Edge Basic Research Awards (CEBRA) (R21)
Funding Opportunity Number: PAR-15-079
Application Deadline: August 20, 2015; December 18, 2015; August 19, 2016; December 20, 2016; August 18, 2017; and December 20, 2017, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
Description: The National Institute on Drug Abuse (NIDA) Cutting-Edge Basic Research Award (CEBRA) is designed to foster highly innovative or conceptually creative research related to drug abuse and addiction and how to prevent and treat them. It supports research that is high-risk and potentially high-impact that is underrepresented or not included in NIDA's current portfolio. The proposed research should: (1) test a highly novel and significant hypothesis, for which there are scant precedent or preliminary data and which, if confirmed, would have a substantial impact on current thinking; and/or (2) develop or adapt innovative techniques or methods for addiction research, or that have promising future applicability to drug abuse research.
http://grants.nih.gov/grants/guide/pa-files/PAR-15-079.html#sthash.C0kCyenv.dpuf

Predictive Multiscale Models for Biomedical, Biological, Behavioral, Environmental and Clinical Research (U01)
Funding Opportunity Number: PAR-15-085
Application Deadline: March 9, 2015; May 29, 2015; September 29, 2015; January 29, 2016; May 30, 2016; September 29, 2016; January 30, 2017; May 29, 2017; September 29, 2017 (Applicants interested in DOE funding may wish to use the September due dates, see Section IV.6, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
Description: The goal of this interagency funding opportunity announcement (FOA) is to support the development of multiscale models to accelerate biological, biomedical, behavioral, environmental and clinical research. The NIH, ARO, DOE, FDA, NASA, NSF, and ONR recognize that in order to efficiently and effectively address the challenges of understanding multiscale biological and behavioral systems, researchers will need predictive, computational models that encompass multiple biological and behavioral scales. This FOA supports the development of non-standard modeling methods and experimental approaches to facilitate multiscale modeling, and active participation in community-driven activities through the Multiscale Modeling (MSM) Consortium, www.imagwiki.org
http://grants.nih.gov/grants/guide/pa-files/PAR-15-085.html#sthash.cbxdP03l.dpuf

NIAMS Rheumatic Diseases Research Resource-based Centers (P30)
Funding Opportunity Number: RFA-AR-16-002
Application Deadline: October 9, 2015
Description: The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) requests applications for the NIAMS Resource-based Centers Program (P30) for rheumatic diseases research areas within its mission. The Resource-based Centers will provide critical research infrastructure, shared facilities, services, and/or resources to groups of investigators conducting research on rheumatic diseases, enabling them to conduct their independently-funded individual and/or collaborative research projects more efficiently and/or more effectively, with the broad overall goal of accelerating, enriching, and enhancing the effectiveness of ongoing basic, translational, and clinical research and promoting new research within the NIAMS mission.
http://grants.nih.gov/grants/guide/rfa-files/RFA-AR-16-002.html#sthash.fIwKEedK.dpuf

NIDA Translational Avant-Garde Award for Development of Medication to Treat Substance Use Disorders (UH2/UH3)
Funding Opportunity Number: RFA-DA-15-017

Application Deadline: April 15, 2015
Description: The purpose of this award is to support outstanding basic and/or clinical researchers with the vision and expertise to translate research discoveries into medications for the treatment of Substance Use Disorders (SUDs) stemming from tobacco, cannabis, cocaine, methamphetamine, heroin, or prescription opiate use. Eligible applicants must demonstrate the ability to develop molecules with the potential to treat SUDs and advance them in the drug development continuum. The ultimate goal of this FOA is to bring molecules closer to FDA approval. Through this FOA, NIDA seeks to attract exceptionally talented investigators to the mission of expanding the number and breadth of lead molecules in the pipeline for drug addiction treatment, optimizing these leads, and/or advancing them to clinical testing. http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-15-017.html#sthash.wbIEtc6S.dpuf

NIH Big Data to Knowledge (BD2K) Enhancing Diversity in Biomedical Data Science (R25)
Funding Opportunity Number: RFA-MD-15-005
Application Deadline: March 19, 2015
Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this Big Data to Knowledge (BD2K) R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral, and clinical research workforce. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on research experiences and curriculum development. http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-005.html#sthash.mqS0TLAk.dpuf

Novel Assays to Address Translational Gaps in Treatment Development (UH2/UH3)
Funding Opportunity Number: RFA-MH-16-220
Application Deadline: April 3, 2015
Description: The overall goal of this initiative is to identify, optimize, and evaluate measures of neurophysiological processes that are disrupted within or across mental disorders and which can be assessed in animals and humans. The goal is to support further development of these measures as assays for evaluating potential new drug and device therapies and their targets. Data will also reveal assay measures where the performance between preclinical species and humans is dissimilar, thus establishing a firm basis for limiting speculative extrapolations of preclinical findings. Ultimately, the goal of this FOA is to improve the efficiency of the therapeutic development process by addressing inconsistencies between the preclinical screening pipeline and clinical evaluation of new treatment candidates and thereby hasten the development of more effective treatments for mental disorders. The FOA will support development, optimization and evaluation of brain based assays in both preclinical species and in healthy humans and the evaluation of assay performance in response to carefully selected chemical, physiological, or behavioral manipulations. http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-16-220.html#sthash.AvvyibAb.dpuf

NIGMS Program of Administrative Supplements for Equipment (Admin Supp)
Funding Opportunity Number: PA-15-089
Application Deadline: Multiple dates, see announcement.
Description: The National Institute of General Medical Sciences (NIGMS) announces the availability of funds for Administrative Supplements to NIGMS-funded R01, R37, P01, and U01 grants. These funds are intended for the purchase of single pieces of equipment whose requested direct costs are between $50,000 and $250,000. Equipment in this price range is often difficult to purchase under the parent grant. Two or more NIGMS grantees at the same institution with similar equipment needs are encouraged to submit separate requests (each between $50,000 and $250,000) that cross-reference each other. It is expected that the amount of funds requested for such joint purchases will reflect the actual proportion of the time that the shared equipment would be used by each PI. NIGMS encourages requests that reflect institutional commitment. http://grants.nih.gov/grants/guide/pa-files/PA-15-089.html#sthash.IH64N4M5.dpuf

Shared Instrumentation Grant (SIG) Program (S10)
Funding Opportunity Number: PAR-15-088
Application Deadline: May 29, 2015
Description: The Shared Instrument Grant (SIG) program encourages applications from groups of NIH-supported

investigators to purchase or upgrade a single item of expensive, specialized, commercially available instruments or integrated systems that cost at least $50,000. The maximum award is $600,000. Types of instruments supported include, but are not limited to: X-ray diffraction systems, nuclear magnetic resonance (NMR) and mass spectrometers, DNA and protein sequencers, biosensors, electron and confocal microscopes, cell-sorters, and biomedical imagers. http://grants.nih.gov/grants/guide/pa-files/PAR-15-088.html#sthash.cTfEuj8L.dpuf

Exploratory/Developmental Grants Program for Basic Cancer Research in Cancer Health Disparities (R21)
Funding Opportunity Number: PAR-15-092
Application Deadline: June 17, 2015; November 17, 2015; June 17, 2016; November 17, 2016; June 19, 2017; November 17, 2017, by 5:00 PM local time of applicant organization.
Description: This Funding Opportunity Announcement (FOA) encourages grant applications from investigators interested in conducting basic research studies into the biological/genetic causes and mechanisms of cancer health disparities. These awards will support pilot and feasibility studies designed to investigate biological/genetic bases of cancer disparities, such as (1) mechanistic studies of biological factors associated with cancer disparities, (2) the development and testing of new methodologies and models, and (3) secondary data analyses. This FOA is also designed to aid and facilitate the growth of a nationwide cohort of scientists with a high level of basic research expertise in cancer health disparities research who can expand available resources and tools, such as biospecimens, cell lines and methods that are necessary to conduct basic research in cancer health disparities. In addition, the FOA will further the development of scientific areas, providing support for early-stage exploratory projects that lead to future in-depth mechanistic studies (such as R01 projects) of the biology of cancer health disparities.
http://grants.nih.gov/grants/guide/pa-files/PAR-15-092.html#sthash.Ecl3AmQa.dpuf

Basic Cancer Research in Cancer Health Disparities (R01)
Funding Opportunity Number: PAR-15-093
Application Deadline: June 17, 2015; November 17, 2015; June 17, 2016; November 17, 2016; June 19, 2017; November 17, 2017, by 5:00 PM local time of applicant organization.
Description: This Funding Opportunity Announcement (FOA) encourages grant applications from investigators interested in conducting basic, mechanistic research into the biological/genetic causes of cancer health disparities. These research project grants (R01) will support innovative studies designed to investigate biological/genetic bases of cancer disparities, such as (1) mechanistic studies of biological factors associated with cancer disparities, including those related to basic research in cancer biology or cancer prevention intervention strategies, (2) the development and testing of new methodologies and models, and (3) secondary data analyses. This FOA is also designed to aid and facilitate the growth of a nationwide cohort of scientists with a high level of basic research expertise in cancer health disparities research who can expand available resources and tools, such as biospecimens, cell lines and methods that are necessary to conduct basic research in cancer health disparities.
http://grants.nih.gov/grants/guide/pa-files/PAR-15-093.html#sthash.WKNn8Pzw.dpuf

Population Dynamics Centers Research Infrastructure FY 2015 (P2C)
Funding Opportunity Number: RFA-HD-15-009
Application Deadline: March 27, 2015
Description: The goal of this funding opportunity announcement (FOA) is to advance the field of population dynamics research by increasing research productivity, develop junior scientists, and maximize the efficiency of research support. http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-15-009.html#sthash.XjwEkcLd.dpuf

Medical Rehabilitation Research Resource (P2C)
Funding Opportunity Number: RFA-HD-15-010
Application Deadline: March 25, 2015
Description: This Funding Opportunity Announcement (FOA) invites grant applications from institutions/organizations that propose to build research infrastructure to promote external collaboration with the medical rehabilitation community. The aim of this FOA is to create a national network of research cores that provide access to collateral expertise in biomedical, behavioral, engineering, and/or psychosocial fields that is particularly relevant to medical rehabilitation research. We are particularly interested in supporting infrastructure programs in clinical trial design, engineering and the environment, individualized medical rehabilitation and dynamic reassessment, and applied behavioral supports for rehabilitation research and healthy outcomes. However,

other areas of expertise may be proposed provided they offer unique research opportunities and have potential for promoting medical rehabilitation research and improving outcomes for people with disabilities. http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-15-010.html#sthash.2xFDN8Ws.dpuf

Metabolomics Core for the Undiagnosed Diseases Network (UDN) (U01)
Funding Opportunity Number: RFA-RM-15-001
Application Deadline: April 15, 2015
Description: This Funding Opportunity Announcement (FOA) is to establish a Metabolomics Core to augment clinical and laboratory findings of the Undiagnosed Diseases Network (UDN) and to assist the Network in the diagnosis of patients with undiagnosed diseases. Responsive applications will describe a plan to provide comprehensive analytical methods, analyses, technologies, and metabolomics expertise to the UDN to aid in clinical diagnosis and investigate potential mechanisms underlying phenotypic changes in patients. Due to the rare, even unique, disorders of UDN patients, the application should describe the need to develop specialized, "boutique" assays and methods of measurement in analyses of both normal and abnormal compounds of the diseased metabolome. http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-15-001.html#sthash.Le3dmKEu.dpuf

Prevention Research in Mid-Life Adults (R21)
Funding Opportunity Number: PA-15-097
Application Deadline: Multiple receipt dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) seeks to stimulate research on mid-life adults (those 50 to 64 years of age) that can inform efforts to optimize health and wellness as individuals age, and prevent illness and disability in later years. http://grants.nih.gov/grants/guide/pa-files/PA-15-097.html#sthash.Guicpnbv.dpuf

Prevention Research in Mid-Life Adults (R01)
Funding Opportunity Number: PA-15-098
Application Deadline: Multiple receipt dates, see announcement.
Description: This Funding Opportunity Announcement (FOA) seeks to stimulate research on mid-life adults (those 50 to 64 years of age) that can inform efforts to optimize health and wellness as individuals age, and prevent illness and disability in later years. http://grants.nih.gov/grants/guide/pa-files/PA-15-098.html#sthash.ejGm4dwT.dpuf

Reductions in Illicit Drug Use and Functional Outcomes (R21/R33)
Funding Opportunity Number: PA-15-099
Application Deadline: Multiple dates, see announcement.
Description: The purpose of this Funding Opportunity Announcement (FOA) is to encourage applications for Phased Innovation (R21/R33) projects to determine whether reductions in illicit drug use are associated with positive changes in health-related and other functional outcomes in individuals with substance use disorders (SUDs). Functional outcomes include, for example, reductions in morbidity, mortality, criminal justice involvement, overall healthcare expenditures. This FOA provides support for up to two years (R21 phase) for research planning activities and feasibility studies, followed by possible transition to expanded research support (R33 phase). The transition to the R33 phase will be determined by NIH program evaluation of successful achievement of the milestones set for the R21 phase. The ultimate goal of this FOA is to provide evidence that will enable regulatory authorities to accept reductions in illicit drug use as a valid outcome measure in clinical trials of pharmacotherapies for the treatment of SUDs. http://grants.nih.gov/grants/guide/pa-files/PA-15-099.html#sthash.utZLoknH.dpuf

Assay Validation For High Quality Markers For NCI-Supported Clinical Trials (UH2/UH3)
Funding Opportunity Number: PAR-15-095
Application Deadline: March 26, 2015; July 8, 2015; October 7, 2015; February 9, 2016; July 8, 2016; October 7, 2016; February 9, 2017; July 7, 2017; October 6, 2017, by 5:00 PM local time of applicant organization.
Description: The purpose of this Funding Opportunity Announcement (FOA) is to improve the development and validation of molecular diagnostics for the treatment, control, or prevention of cancer. This FOA includes, but is not limited to, the validation of prognostic, predictive or response markers for treatment and markers for cancer control or prevention trials. Applicants should have an assay that works in human samples and whose importance is well

justified for development into a clinical assay. The UH2 phase of this FOA supports analytical validation of assays for these markers that must be achieved within two years before an assay may undergo clinical validation. The UH3 phase of this FOA supports the clinical validation of established assays for up to three years using specimens from retrospective or prospective studies from NCI-supported or other clinical trials. In both the UH2 and UH3 phases, clinical laboratory staff, technical and other needs must be an integral part of the application. Assays proposed for this FOA may be used to validate existing assays for use in other cancer clinical trials, observational studies or populations. Projects proposed for this FOA will require multi-disciplinary interaction and collaboration among scientific investigators, clinicians, statisticians and clinical laboratory scientists and staff. This FOA is not intended to support trials that assess the clinical utility of a marker/assay but is intended to develop assays to the point where their clinical utility could be assessed in other trials. Investigators responding to this FOA must address both UH2 and UH3 phases. http://grants.nih.gov/grants/guide/pa-files/PAR-15-095.html#sthash.HV49ZmKO.dpuf

Assay Validation For High Quality Markers For NCI-Supported Clinical Trials (UH3)
Funding Opportunity Number: PAR-15-096
Application Deadline: March 26, 2015; July 8, 2015; October 7, 2015; February 9, 2016; July 8, 2016; October 7, 2016; February 9, 2017; July 7, 2017; October 6, 2017, by 5:00 PM local time of applicant organization.
Description: The purpose of this Funding Opportunity Announcement (FOA) is to improve the development and validation of molecular diagnostics for the treatment, control, or prevention of cancer. This FOA includes, but is not limited to, the validation of prognostic, predictive or response markers for treatment and markers for cancer control or prevention trials. Applicants to this FOA must have an assay whose performance has been analytically validated within specimens similar to those for the intended clinical use of the assay and marker. The UH3 mechanism supports the clinical validation of established assays for up to three years using specimens from retrospective or prospective studies from NCI-supported or other clinical trials. Assays proposed for this FOA may be used to validate existing assays for use in other trials, observational studies or populations. Projects proposed for this FOA will require multi-disciplinary interaction and collaboration among scientific investigators, clinicians, statisticians and clinical laboratory scientists and staff. Clinical laboratory staff, technical and other needs must be an integral part of the application. This FOA is not intended to support trials that assess the clinical utility of a marker/assay but is intended to develop assays to the point where their clinical utility could be assessed in other trials. http://grants.nih.gov/grants/guide/pa-files/PAR-15-096.html#sthash.trHwCpRZ.dpuf

National Science Foundation

Ocean Technology and Interdisciplinary Coordination
Funding Opportunity Number: PD-98-1680
Application Deadline: February 15, 2015
Description: The Oceanographic Technology and Interdisciplinary Coordination (OTIC) Program supports a broad range of research and technology development activities. Unsolicited proposals are accepted for instrumentation development that has broad applicability to ocean science research projects and that enhance observational, experimental or analytical capabilities of the ocean science research community. Specific announcements for funding opportunities are made for additional projects involving Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML) and the National Ocean Partnership Program. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12724

Marine Geology and Geophysics
Funding Opportunity Number: PD-98-1620
Application Deadline: February 15, 2015
Description: The Marine Geology and Geophysics program supports research on all aspects of geology and geophysics of the ocean basins and margins, as well as the Great Lakes. The Program includes: Structure, tectonic evolution and volcanic activity of the ocean basins, the continental margins, the mid-ocean ridges, and island arc systems; processes controlling exchange of heat and chemical species between seawater and ocean rocks; genesis, chemistry, and mineralogic evolution of marine sediments; processes controlling deposition, erosion and transport of marine sediments; past ocean circulation patterns and climates, and interactions of continental and marine geologic processes. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11726

Biological Oceanography
Funding Opportunity Number: PD-98-1650
Application Deadline: February 15, 2015
Description: The Biological Oceanography Program supports research in marine ecology broadly defined: relationships among aquatic organisms and their interactions with the environments of the oceans or Great Lakes. Projects submitted to the program for consideration are often interdisciplinary efforts that may include participation by other OCE Programs. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11696

Physical Oceanography
Funding Opportunity Number: PD-98-1610
Application Deadline: February 15, 2015
Description: The Physical Oceanography Program supports research on a wide range of topics associated with the structure and movement of the ocean, with the way in which it transports various quantities, with the way the ocean's physical structure interacts with the biological and chemical processes within it, and with interactions between the ocean and the atmosphere, solid earth and ice that surround it.
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12729

Chemical Oceanography
Funding Opportunity Number: PD-98-1670
Application Deadline: February 15, 2015
Description: The Chemical Oceanography Program supports research into the chemical components, reaction mechanisms, and geochemical pathways within the ocean and at its interfaces with the solid earth and the atmosphere. Major emphases include: studies of material inputs to and outputs from marine waters; orthochemical and biological production and transformation of chemical compounds and phases within the marine system; and the determination of reaction rates and study of equilibria. The Program encourages research into the chemistry, distribution, and fate of inorganic and organic substances introduced into or produced within marine environments including those from estuarine waters to the deep sea. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11698

Nanomanufacturing
Funding Opportunity Number: PD-14-1788
Application Deadline: February 17, 2015
Description: The NSF Nanomanufacturing Program supports fundamental research in novel methods and techniques for batch and continuous processes, top-down (addition/subtraction) and bottom-up (directed self-assembly) processes leading to the formation of complex heterogeneous nanosystems. The program supports basic research in nanostructure and process design principles, integration across length-scales, and system-level integration. The Program encourages research on processes and production systems based on computation, modeling and simulation, use of process metrology, sensing, monitoring, and control, and assessment of product (nanomaterial, nanostructure, nanodevice or nanosystem) quality and performance. The Program seeks to explore transformative approaches to nanomanufacturing, including but not limited to: micro-reactor and micro-fluidics enabled nanosynthesis, bio-inspired nanomanufacturing, manufacturing by nanomachines, additive nano-manufacturing, hierarchical nanostructure assembly, continuous high-rate nanofabrication such as roll-to-roll processing or massively-parallel large-area processing, and modular manufacturing platforms for nanosystems. The Program encourages the fabrication of nanomaterials by design, three-dimensional nanostructures, multi-layer nanodevices, and multi-material and multi-functional nanosystems. Also of interest is the manufacture of dynamic nanosystems such as nanomotors, nanorobots, and nanomachines, and enabling advances in transport and diffusion mechanisms at the nano-scale. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13347

Materials Engineering and Processing
Funding Opportunity Number: PD-13-8092
Application Deadline: February 17, 2015
Description: The Materials Engineering and Processing (MEP) program supports fundamental research addressing the interrelationship of materials processing, structure, properties and/or life-cycle performance for targeted applications. Research proposals should be driven by the performance or output of the material system relative to the targeted application(s). Research plans driven by scientific hypotheses are encouraged when suitable. Materials

in bulk form or focus on special zones such as surfaces or interfaces that are to be used in structural and/or functional applications are appropriate. All material systems are of interest including polymers, metals, ceramics, semiconductors, composites and hybrids thereof. Analytical, experimental, and numerical studies are supported and collaborative proposals with industry (GOALI) are encouraged. Areas of interest include: Functional Materials - materials that possess native properties and functions that can be controlled by external forces such as temperature, light, electric field, pH, etc. Length scales from nano to meso to macro are of interest as are materials in the bulk or in special configuration such as thin film. These include materials such as metals, polymers, composites, bio-materials, ceramics, hybrids, cement, etc. Materials Processing - processes that convert material into useful form as either intermediate or final composition. These include processes such as extrusion, molding, casting, deposition, sintering, printing, etc. Proposed research should include the consideration of cost, performance, and feasibility of scale-up, as appropriate. Research that addresses multi-scale and/or multi-functional materials systems is encouraged as is research in support of environmentally-benign manufacturing.
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504950

Manufacturing Machines and Equipment
Funding Opportunity Number: PD-14-1468
Application Deadline: February 17, 2015
Description: The MME program supports fundamental research leading to improved manufacturing machines and equipment, and their application in manufacturing processes. Key goals of the program are to advance the transition of manufacturing from skill-based to knowledge-based activities, and to advance technologies that will enable the manufacturing sector to reduce its environmental impacts. A focus is on the advancement of manufacturing machines and related systems engineering that will enable energy manufacturing, namely the manufacture of facilities and equipment that will enable the conversion of renewable resources into energy products such as electricity and liquid fuels, on a large scale. The program also supports research on additive manufacturing, laser processing and bonding/joining processes encompassing feature scales from microns to meters. Proposals with focus on materials for these processes are also welcome in MME.
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13346

Manufacturing Enterprises Systems
Funding Opportunity Number: PD-13-1786
Application Deadline: February 17, 2015
Description: The MES program supports research on design, planning, and control of operations in manufacturing enterprises. Research is supported that is both grounded in an interesting and relevant application and requires the development of novel analytical and computational methodologies that may be of broader interest. Topics of interest include supply chain optimization and management; production planning and scheduling; monitoring and control of manufacturing processes; and maintenance and repair. Of particular interest are methods that incorporate increasingly rich enterprise process and product information and models, methods that address sustainability, and methods that incorporate characteristic uncertainty and risk.
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13342

Design of Engineering Material Systems
Funding Opportunity Number: PD-12-8086
Application Deadline: February 17, 2015
Description: The Design of Engineering Material Systems (DEMS) program supports fundamental research intended to lead to new paradigms of design, development, and insertion of advanced engineering material systems. Fundamental research that develops and creatively integrates theory, processing/manufacturing, data/informatics, experimental, and/or computational approaches with rigorous engineering design principles, approaches, and tools to enable the accelerated design and development of materials is welcome. Research proposals are sought that strive to develop systematic scientific methodologies to tailor the behavior of material systems in ways that are driven by performance metrics and incorporate processing/manufacturing. Ultimately it is expected that research outcomes will be methodologies to enable the discovery of materials systems with new properties and behavior, and enable their rapid insertion into engineering systems. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504809

Operations Research
Funding Opportunity Number: PD-10-5514
Application Deadline: February 17, 2015
Description: The OR program supports fundamental research leading to the creation of innovative mathematical models, analysis, and algorithms for optimal or near optimal decision-making, applicable to the design and operation of manufacturing, service, and other complex systems. In addition to the traditional areas of Operations Research, which includes discrete and continuous optimization as well as stochastic modeling and analysis, new research thrusts include simulation optimization and self-optimizing systems that can observe, learn, and adapt to changing environments. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13341

Service Enterprises Systems
Funding Opportunity Number: PD-10-1787
Application Deadline: February 17, 2015
Description: The SES program supports research on strategic decision making, design, planning, and operation of commercial, nonprofit, and institutional service enterprises with the goal of improving their overall effectiveness and cost reduction. The program has a particular focus on healthcare and other similar public service institutions, and emphasizes research topics leading to more effective systems modeling and analysis as a means to improved planning, resource allocation, and policy development. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13343

Sensors, Dynamics, and Control
Funding Opportunity Number: PD-14-7569
Application Deadline: February 17, 2015
Description: The Sensors, Dynamics, and Control (SDC) program supports fundamental research on the analysis, measurement, monitoring and control of complex dynamical and structural systems, including development of new analytical, computational and experimental tools, and novel applications to engineered and natural systems. Program objectives are the discovery of new phenomena and the investigation of innovative methods and applications for dynamics, measurement, and control. Transformative research on complex networks, linear and nonlinear discrete or infinite dimensional systems spanning a multitude of time and length scales and physical domains are of interest, as are highly interdisciplinary projects and projects addressing security, resilience and sustainability. Basic research strongly motivated by industry needs or other real-life applications is welcome. The SDC program supports fundamental research on the theories of dynamical systems to uncover novel paradigms for modeling, control and analysis of dynamic phenomena and systems that undergo spatial and temporal evolution with applications crossing interdisciplinary boundaries, along with fundamental studies on stability, phase transitions, and wave propagation in complex and non-local media. Furthermore, the program supports fundamental research on monitoring, analysis, and decision-making processes for integrity monitoring, sensors reliability and safety of complex engineered systems, especially under conditions of uncertainty. Of interest is the investigation of big data (high-volume and high-speed) issues related to virtually-continuous streams of measurements from heterogeneous sensors for continuous systems monitoring. The SDC program also includes fundamental research on control theory and its applications. Topics of current interest include unconventional applications of control; the combined roles of feedback, feed forward and uncertainty; integrated feedback, communication and signal processing; and control concepts inspired by nature. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505099

Biomechanics and Mechanobiology
Funding Opportunity Number: PD-14-7479
Application Deadline: February 17, 2015
Description: The BMMB Program supports fundamental research in biomechanics and mechanobiology. An emphasis is placed on multiscale mechanics approaches in the study of organisms that integrate across molecular, cell, tissue, and organ domains. The influence of in vivo mechanical forces on cell and matrix biology in the histomorphogenesis, maintenance, regeneration, and aging of tissues is an important concern. In addition, the relationships between mechanical behavior and extracellular matrix composition and organization are of interest. Funded projects may include theoretical, computational, and experimental approaches. The program encourages the consideration of diverse living tissues as smart materials that are self-designing.
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13523

Engineering and Systems Design
Funding Opportunity Number: PD-14-1464
Application Deadline: February 17, 2015
Description: The Engineering and Systems Design (ESD) program supports fundamental research leading to new engineering and systems design methods and practices for specific global contexts. In particular, ESD seeks intellectual advances in which the theoretical foundations underlying design and systems engineering are operationalized into rigorous and pragmatic methods for a specific context. In addition, the program funds the rigorous theoretical and empirical characterization of new or existing methods for design and systems engineering, identifying in which global contexts and under which assumptions these methods are effective and efficient. Research in ESD should advance the state of knowledge of design methodology, for instance, by adapting existing methods to a new context or by carefully characterizing existing or new design methods in a new context. ESD supports research towards new modeling formalisms and improvements in algorithms to support design and systems engineering. ESD supports research towards novel integrated frameworks that combine preference and belief elicitation, concept generation, gradual specification refinement, modeling at different levels of abstractions, uncertainty characterization, optimization, HPC, visualization, etc. The improvements resulting from the introduction of such a new framework should be carefully characterized by gathering theoretical and/or empirical evidence. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13340

Systems Science
Funding Opportunity Number: PD-14-8085
Application Deadline: February 17, 2015
Description: The Systems Science (SYS) program supports fundamental research leading to a theoretical foundation for design and systems engineering. In particular, the Systems Science program seeks intellectual advances in which underlying theories (such as probability theory, decision theory, game theory, organizational sociology, behavioral economics or cognitive psychology) are integrated and abstracted to develop explanatory models for design and systems engineering in a general, domain-independent fashion. Ideally, the explanatory models, derived from the underlying theoretical foundations will lead to testable hypotheses. SYS supports research towards understanding the nature of this search process: How best to monitor, guide and control the search process? Which progress metrics to use? Which search strategy to use? How best to frame individual design decisions? How to determine appropriate abstractions for specification and analysis at each step in the process? To what extent should the expected downstream process steps be considered when contemplating the current search steps? http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504788

Structural and Architectural Engineering
Funding Opportunity Number: PD-15-1637
Application Deadline: February 17, 2015
Description: Structural and Architectural Engineering (SAE) program replaces Hazard Mitigation and Structural Engineering (HMSE) program. The SAE program supports fundamental research for advancing knowledge and innovation in structural and architectural engineering that enables holistic approach to design, construction, operation, maintenance, retrofit, repair and end-of-life disposal of structures. For buildings, holistic approach incorporates the foundation-structure-envelope-nonstructural system, as well as the facade and roofing. Research topics of interest for sustainable structures include the following: strategies for structures that over their lifecycle are cost-effective, make efficient use of resources and energy, and incorporate sustainable structural and architectural materials; deterioration due to fatigue and corrosion; serviceability concerns due to large deflections and vibrations; and advances in physics-based computational modeling and simulation. Research is encouraged that integrates discoveries from other science and engineering fields, such as materials science, building science, mechanics of materials, dynamic systems and control, reliability, risk analysis, architecture, economics and human factors. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13358

Mechanics of Materials and Structures
Funding Opportunity Number: PD-15-1630
Application Deadline: February 17, 2015
Description: The Mechanics of Materials and Structures program supports fundamental research in mechanics as related to the behavior of deformable solid materials and respective structures under internal and external actions. A

diverse and interdisciplinary spectrum of research is supported with emphasis on research that leads to advances in i) theory, experimental, and/or computational methods in mechanics, and/or ii) uses contemporary mechanics methods to address modern challenges in materials and structures. Proposed research can focus on existing or emerging materials and structural systems, across time and length scales. Proposals related to material response are welcome, and would propose, but not limited to, advances in fundamental understanding of deformation, fracture, fatigue, as well as on contact and friction through constitutive modeling, multi-scale (spatial or temporal) and multi-physics analysis, computational methods, or experimental techniques. Proposals that relate to structural response are welcome and would propose, but not limited to, advances in the understanding of nonlinear deformation, instability and collapse in the context of large deformation, wave propagation, multi-scale (spatial or temporal) and multi-physics analysis, computational methods, or experimental techniques. Proposals at the intersection or considerate of the integration of material and structure (such as, but not limited to, metamaterials, hierarchical, micro-architectured and low-dimensional materials) are especially welcome. Of particular interest are research questions that address the integration and combination of geometry, topology of material distributions, length scales and deformation/failure mechanics. www.whitehouse.gov/mgi
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13355

Civil Infrastructure Systems
Funding Opportunity Number: PD-15-1631
Application Deadline: February 17, 2015
Description: The Civil Infrastructure Systems (CIS) program supports fundamental and innovative research necessary for designing, constructing, managing, maintaining, operating and protecting efficient, resilient and sustainable civil infrastructure systems. Research that recognizes the role that these systems play in societal functioning and accounts for how human behavior and social organizations contribute to and affect the performance of these systems is encouraged. While component-level, subject-matter knowledge may be crucial in many research efforts, this program focuses on the civil infrastructure as a system in which interactions between spatially-distributed components and intersystem connections exist. Thus, intra- and inter-physical, information and behavioral dependencies of these systems are also of particular interest. Topics pertaining to transportation systems, construction engineering, infrastructure systems and infrastructure management are a focus of this program. Research that considers either or both ordinary and disrupted operating environments is relevant. Methodological contributions pertaining to systems engineering and design, network analysis and optimization, performance management, vulnerability and risk analysis, mathematical and simulation modeling, exact and approximate algorithm development, control theory, statistical forecasting, dynamic and stochastic systems approaches, multi-attribute decision theory, and incorporation of behavioral and social considerations, not excluding other methodological areas or the integration of methods, specific to this application are encouraged. Additional research of interest exploits data/information, and takes advantage of relevant technological advances, such as social media.
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13352

Engineering for Natural Hazards
Funding Opportunity Number: PD-15-7396
Application Deadline: February 17, 2015
Description: The goals of the Engineering for Natural Hazards (ENH) program are to prevent natural hazards from becoming disasters, and to broaden consideration of natural hazards independently to the consideration of the multi-hazard environment within which the constructed civil infrastructure exists. The constructed civil infrastructure supported by the ENH program includes building systems such as the soil-foundation-structure-envelope-nonstructural system, as well as the facade and roofing, and other structures, geostructures, and underground facilities such as tunnels. While research may focus on a single natural hazard, research that considers civil infrastructure design and performance in the context of multiple hazards, that is, a multi-hazard approach is encouraged. Research topics of interest to the ENH program include, but are not limited to: advances in system-level design concepts for new and existing sustainable civil infrastructure to achieve desired lifetime system-level performance under single or multi-hazard loadings; advances in geotechnical engineering for design and construction of natural hazard-resistant foundations and geostructures, liquefaction mitigation, soil-foundation-structure interaction, levee and earth dam stability, and landslide, mudflow and debris flow analysis and mitigation, with a focus on field or system performance; applications of decision theory for design concepts for civil infrastructure to achieve desired lifetime system-level performance for both multi-hazard resilience and

sustainability; and advances in computational modeling and simulation that integrate theory, computation, experimentation, and data, as appropriate, to advance natural hazard mitigation for civil infrastructure. The ENH program encourages knowledge dissemination and technology transfer activities that can lead to broader societal benefit and implementation for natural hazard mitigation for civil infrastructure.
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505177

Infrastructure Management and Extreme Events
Funding Opportunity Number: PD-15-1638
Application Deadline: February 17, 2015
Description: The IMEE program supports fundamental, multidisciplinary research on the impact of hazards and extreme events upon civil infrastructure and society. The program is focused upon research on the mitigation of, preparedness for, response to, and recovery from multi-hazard disasters. Community and societal resilience and sustainability are important topics within the research portfolio of IMEE. The following list provides examples of the kinds of topics and issues that may be supported, though the list is not exhaustive and other, innovative topics may be proposed. Mitigation research may focus upon issues such as the analysis of structural and non-structural mitigation effectiveness, local capacity building for risk reduction, and social and physical vulnerability analyses. Preparedness research may involve studies on warning and risk communication, evacuation, multi-hazard emergency planning, and the effectiveness of pre-disaster planning. Response research may examine such issues as infrastructure interdependencies and cascading disasters, innovation and improvisation in emergency management, and the use of new communication technology and social media in emergency management. Recovery research may examine linking disaster recovery to the mitigation of future disasters, resilience metrics and models, resilience of interdependent infrastructure processes and systems, and social factors related to economic recovery and resilience. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13353

Geotechnical Engineering and Materials
Funding Opportunity Number: PD-15-1636
Application Deadline: February 17, 2015
Description: The Geotechnical Engineering and Materials (GEM) Program encourages knowledge dissemination and technology transfer activities that can lead to broader societal benefit and implementation for provision of physical civil infrastructure. The program supports relevant research topics that address the emerging areas of geotechnical engineering and the Grand Challenges to "restore and improve urban infrastructure" and "provide access to clean water" described in the following reports: "National Research Council, Geological and Geotechnical Engineering in the New Millennium: Opportunities for Research and Technical Innovation. Washington, DC: The National Academies Press, 2006, http://www.nap.edu/openbook.php?record_id=11558?? National Academy of Engineering, Grand Challenges for Engineering,
http://www.engineeringchallenges.org/Object.File/Master/11/574/Grand%20Challenges%20final%20book.pdf
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13351

Partnerships for Innovation: Accelerating Innovation Research- Research Alliance
Funding Opportunity Number: 14-612
Application Deadline: February 18, 2015
Description: This PFI:AIR-Research Alliance (RA) solicitation is intended to accelerate the translation and transfer of existing research discoveries into competitive technologies and commercial realities by leveraging the investments NSF has made in research consortia (e.g., Engineering Research Centers, Industry University Cooperative Research Centers, Science and Technology Centers, Nanoscale Science and Engineering Centers, Materials Research Science and Engineering Centers, Centers for Chemical Innovation, and others) and catalyzing academic-based innovation ecosystems. The goal is that these synergistic partnerships and collaborations between government, academia, and other public and private entities will result in new wealth and the building of strong local and regional economies. WEBINAR: A webinar will be held within 6 weeks of the release date of this solicitation to answer any questions about this solicitation. Details will be posted on the PFI: AIR-RA website (http://www.nsf.gov/eng/iip/pfi/air-ra.jsp) as they become available.
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14612

Research on the Science and Technology Enterprise: Statistics and Surveys - R&D, U.S. S&T

Competitiveness, STEM Education, S&T Workforce
Funding Opportunity Number: 15-521
Application Deadline: February 18, 2015
Description: NCSES welcomes efforts by the research community to use NCSES data for research on the science and technology enterprise, to develop improved survey methodologies for NCSES surveys, to create and improve indicators of S&T activities and resources, and strengthen methodologies to analyze and disseminate S&T statistical data. To that end, NCSES invites proposals for individual or multi-investigator research projects, doctoral dissertation improvement awards, workshops, experimental research, survey research and data collection and dissemination projects under its program for Research on the Science and Technology Enterprise: Statistics and Surveys. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf15521

EPSCoR Research Infrastructure Improvement Program: Track-2 Focused EPSCoR Collaborations
Funding Opportunity Number: 15-517
Application Deadline: February 20, 2015
Description: The Experimental Program to Stimulate Competitive Research (EPSCoR) is designed to fulfill the mandate of the National Science Foundation (NSF) to promote scientific progress nationwide. A jurisdiction is eligible to participate in EPSCoR programs if its level of NSF research support is equal to or less than 0.75 percent of the total NSF research and related activities budget for the most recent three-year period. RII Track-2 FEC builds inter-jurisdictional collaborative teams of EPSCoR investigators in themes consistent with NSF priorities. Projects are investigator-driven and must involve a collaborative team of investigators from at least two EPSCoR jurisdictions. The Science, Technology, Engineering, and Mathematics (STEM) research and education activities should specifically broaden participation through the inclusion and integration of different types of individuals, institutions, and sectors throughout the project. Proposals must describe a comprehensive and integrated vision to drive discovery and build sustainable STEM capacity that exemplifies diversity of all types (individual, institutional, geographic, and disciplinary). A single proposal is submitted for a project. Support for non-lead collaborating institutions should be requested as subawards. Separately submitted collaboratives are not allowed. Each participating EPSCoR jurisdiction must have at least one co-PI on the project.
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf15517

NSF/Intel Partnership on Visual and Experiential Computing
Funding Opportunity Number: 15-518
Application Deadline: February 20, 2015
Description: The goal of this joint solicitation between NSF and Intel is to foster novel, transformative, multidisciplinary approaches that promote research in VEC technologies, taking into consideration the various challenges present in this field. This solicitation aims to foster a research community committed to advancing research and education at the confluence of VEC technologies, and to transitioning its findings into practice. NSF and Intel will support three types of projects, each three years in duration: small projects with funding from $500,000 to $1,000,000 per project; medium projects with funding from $1,000,001 to $2,000,000 per project; and large projects with funding from $2,000,001 to $3,000,000. It is intended that NSF and Intel will co-fund each project in equal amounts. This NSF/Intel partnership combines CISE's experience in developing and managing successful large, diverse research portfolios with Intel's long history of building research communities in emerging technology areas through programs such as its Science and Technology Center Program.
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf15518

Resource Implementations for Data Intensive Research in the Social Behavioral and Economic Sciences
Funding Opportunity Number: 15-523
Application Deadline: February 23, 2015
Description: As part of NSF's Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21) activity, the Directorate for Social, Behavioral and Economic Sciences (SBE) seeks to develop user-friendly large-scale next-generation data resources and relevant analytic techniques to advance fundamental research in SBE areas of study. Successful proposals will, within the financial resources provided by the award, construct such databases and/or relevant analytic techniques and produce a finished product that will enable new types of data-intensive research. The databases or techniques should have significant impacts, either across multiple fields or within broad disciplinary areas, by enabling new types of data-intensive research in the SBE sciences.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf15523

Cyber-Innovation for Sustainability Science and Engineering
Funding Opportunity Number: 15-524
Application Deadline: February 24, 2015
Description: The Cyber-Innovation for Sustainability Science and Engineering (CyberSEES) program aims to advance interdisciplinary research in which the science and engineering of sustainability are enabled by new advances in computing, and in which computational innovation is grounded in the context of sustainability problems. CyberSEES supports research on topics that depend on advances in computational areas including optimization, modeling, simulation, prediction and inference; large-scale data management and analytics; advanced sensing techniques; human computer interaction and social computing; infrastructure design, control and management; and intelligent systems and decision-making. Additionally, the widespread, intensive use of computing technologies also introduces sustainability challenges and motivates new approaches across the lifecycle of technology design and use. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf15524

Cognitive Neuroscience
Funding Opportunity Number: 14-514
Application Deadline: February 25, 2015
Description: The Cognitive Neuroscience Program seeks highly innovative and interdisciplinary proposals aimed at advancing a rigorous understanding of how the human brain supports thought, perception, affect, action, social processes, and other aspects of cognition and behavior, including how such processes develop and change in the brain and through time. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14514

Management and Operation of the Gemini Observatory
Funding Opportunity Number: 14-594
Application Deadline: February 27, 2015
Description: Proposals are solicited to manage and operate the Gemini Observatory through a cooperative agreement with the National Science Foundation (NSF). According to terms set forth in the Gemini Agreement, the appointment of the managing organization for Gemini includes review and approval by the partners. Funding is accomplished through a cooperative agreement (CA) between the NSF and the managing organization. The Awardee resulting from this solicitation will serve as the managing organization, as defined in the Gemini Agreement. The Awardee will work closely with NSF and the scientific community to ensure that the Gemini Observatory continues to support, sustain and advance frontier science as enabled by Gemini's unique research capabilities and as promoted through a culture of excellence. The Awardee will manage facilities and equipment provided by NSF, will provide and develop additional equipment as necessary to fulfill the approved programmatic scope, and will provide support and technical personnel to manage the Gemini Observatory as a well-integrated research and education facility. Proposals should describe how the proposing institution(s) will provide observing capabilities and access to the resulting scientific data; facilitate an integrated program of research, education, training and outreach; maintain instruments, facilities and infrastructure; manage and develop a skilled and diverse workforce; and establish appropriate relationships with universities, industry, private organizations and the international community to support the mission of the Observatory.
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14594

Materials Innovation Platforms
Funding Opportunity Number: 15-522
Application Deadline: March 2, 2015
Description: The Division of Materials Research (DMR) seeks to significantly accelerate advances in materials research and engineering through the rapid discovery of new materials and phenomena by developing a new midscale user facility program - Materials Innovation Platforms (MIP) program. The scientific focus of the MIP program is subject to change from competition to competition. MIPs are anticipated to be five year awards totaling $10,000,000 to $25,000,000 for the award period. MIP awards are eligible for a one-time five-year renewal, subsequent to a rigorous and favorable review by NSF. To cover the breadth of this endeavor, it is expected that proposed projects will be directed by a team of at least three Senior Personnel with complementary expertise.

Equipment acquisition is expected in the first few years, but yearly budget should not exceed $7.0M.
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf15522

Sociology Program - Doctoral Dissertation Research Improvement Awards
Funding Opportunity Number: 14-604
Application Deadline: March 2, 2015
Description: The Sociology Program supports basic research on all forms of human social organization and processes of individual and institutional change. The Program encourages theoretically focused empirical investigations aimed at improving the explanation of fundamental social processes. The Sociology Program funds doctoral dissertation research to defray direct costs associated with conducting research, for example, dataset acquisition, additional statistical or methodological training, meeting with scholars associated with original datasets, and fieldwork away from the student's home campus. Projects are evaluated using the two Foundation-wide criteria, intrinsic merit and broader impacts. In assessing the intrinsic merit of proposed research, four components are key to securing support from the Sociology Program: (1) the issues investigated must be theoretically grounded; (2) the research should be based on empirical observation or be subject to empirical validation or illustration; (3) the research design must be appropriate to the questions asked; and (4) the proposed research must advance our understanding of social processes, structures and methods.
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14604

Industry/University Cooperative Research Centers Program
Funding Opportunity Number: 13-594
Application Deadline: March 3, 2015
Description: The Industry/University Cooperative Research Centers (I/UCRC) program develops long-term partnerships among industry, academe, and government. The centers are catalyzed by a small investment from the National Science Foundation (NSF) and are primarily supported by industry center members, with NSF taking a supporting role in the development and evolution of the center. Each center is established to conduct research that is of interest to both the industry members and the center faculty. An I/UCRC contributes to the nation's research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education. As appropriate, an I/UCRC uses international collaborations to advance these goals within the global context. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf13594

USAID

Agriculture and Food Research Initiative: Food, Agriculture, Natural Resources and Human Sciences Education and Literacy Initiative
Funding Opportunity Number: USDA-NIFA-AFRI-004797
Pre-Application Deadline: Letter of Intent Due Date: February 18, 2015
Application Deadline: Due Date (Closing) Pre/Postdoctoral Fellowships February 11, 2015; Due Date (Closing) Undergraduate Fellowships May 6, 2015
The AFRI NIFA Fellowships Grant Program provides fellowships for pre-doctoral and postdoctoral students.
http://www.csrees.usda.gov/fo/foodagriculturenaturalresourcesandhumanscienceseducationandliteracyinitiativeafri.cfm

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