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Applied research at FIU contributes to federal cleanup mission

By Leonel Lagos, PhD

February 2014

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FIU's Applied Research Center (ARC) seeks to solve real-world problems related to environmental stewardship, energy security, and defense technology through innovative multidisciplinary research collaborations and entrepreneurial activities.

Under a \$4M/year cooperative agreement in place since 1995, ARC provides critical support to the U.S. Department of Energy (DOE) Office of Environmental Management in its mission of accelerated risk reduction and environmental cleanup. ARC is currently executing applied research in the following technical areas: radioactive waste processing, soil and groundwater remediation, facility deactivation and decommissioning (D&D), and information technology (IT) applications for environmental management. Additionally, ARC provides hands-on research to FIU students studying science, technology, engineering and math (STEM) via its student workforce development and training program (DOE Fellows Program).

ARC's **high level waste projects** focus on developing novel pipeline-unplugging tools within the constraints and limitations of unique sites. After testing and evaluating a number of commercially available technologies, ARC developed two alternative approaches that will result in major cost savings and minimization of risk to scheduled milestones and the environment: an asynchronous pulsing system (APS) and a peristaltic crawler. The APS is non-invasive and utilizes pressure pulses on both sides of a plug to impose optimal unplugging forces. The peristaltic crawler is a pneumatically-operated device that navigates through complex pipe geometry to reach plugs.

Soil and groundwater remediation projects currently underway at ARC include investigation of uranium contamination that may affect potential discharges to the Columbia River via groundwater migration. ARC researchers have also developed integrated flow and transport models to analyze the mercury transport patterns within the

Oak Ridge Reservation in Tennessee, applying the models to determine the effect of historical hydrological events on mercury transport within the relevant watersheds and the efficiency of selected remedial alternatives.

Deactivation and decommissioning (D&D) projects at ARC identify and demonstrate new technologies and methodologies to support the DOE Office of Environmental Management's (EM) collaborative domestic and international activities. These activities reduce technical risks, improve safety, and limit uncertainty within D&D operations. Since 1995, over 200 technologies have been assessed at ARC's facilities, at DOE sites, and at technology vendors' facilities. As a result of these assessments, directly comparable performance data related to operations and maintenance, primary and secondary waste generation, and health and safety have been compiled. The data from these assessments have assisted EM project managers in making decisions on the deployment of innovative technologies.

ARC's **information technology (IT)** projects have resulted in two major applications developed for DOE EM: Waste Information Management System ([WIMS](#)) and a Deactivation and Decommissioning Knowledge Management Information Tool ([D&D KM-IT](#)).

The **DOE-FIU Science and Technology Workforce Development Program** (also known as the [DOE Fellows Program](#)) addresses DOE's future workforce needs by partnering with academic, government and DOE contractor organizations to mentor future minority scientists and engineers in the research, development, and deployment of new technologies addressing DOE's environmental cleanup challenges. A total of 93 FIU minority STEM students have been inducted as DOE Fellows since the program's inception in 2007.

The last 20 years have seen substantial progress towards DOE EM's mission to complete the safe cleanup of the environmental legacy brought about from five decades of nuclear weapons development and government-sponsored nuclear energy research. The need for environmental remediation at 107 sites across 31 states has been reduced to only 17 sites in 11 states. However,

some of the most challenging work lies ahead. The Applied Research Center at FIU is dedicated to providing solutions to DOE EM's complex technical challenges through innovative applied research.



Upcoming Events

February 2014

- **February 4** from 3:30 to 4:45 pm in the MARC Pavilion, **LAUNCH: Individualized Mentoring Team for New Faculty**, presented by [Katherine Spindler](#), Ph.D., University of Michigan, as part of the Faculty Mentor Program workshop series and NSF ADVANCE grant.
- **February 7** from 11 am to 12 pm in AHC 3 #205, **UV damage recognition in chromatin and the DNA damage response**, presented by [Feng Gong](#), Ph.D., associate professor, Department of Biochemistry and Molecular Biology, University of Miami Miller School of Medicine, as part of the Biomolecular Sciences Institute seminar series. This event is co-sponsored by the Department of Chemistry & Biochemistry and hosted by [Yuk-Ching Tse-Dinh](#), Ph.D.
- **February 7** from 1 to 2:30 pm in AHC 2 #556, the Department of Epidemiology at the Robert Stempel College of Public Health and Social Work will host a college-wide monthly seminar—Research in Progress—where faculty and doctoral students discuss research and grant ideas to develop and refine their research proposals and create collaborative research opportunities.
- **February 11** at 7 pm at Luna Star Café, 775 NE 12th Street, North Miami—**Evolutionary Traps**—[Jennifer Rehage](#), Ph.D., will discuss her research and scientific approaches needed to predict and mitigate the impacts of traps on animal populations.
- **February 13 and 14** from 8 am to 5 pm at MARC Pavilion, **16th Annual Biomedical and Comparative Immunology Symposium**.
- **February 18** (time and location TBA), **Noncoding RNAs in the development of human skin cancer melanoma**, presented by [Ranjan Perera](#), Ph.D., scientific director, Analytical Genomics and Bioinformatics, Sanford Burnham Medical Research Institute, Lake Nona, Orlando as part of the Biomolecular Sciences Institute seminar series. This event will be hosted by [Lidia Kos](#), Ph.D.
- **February 20** from 3 to 5 pm in the MARC Pavilion, **Tips for Writing Grants**, presented by [Catarina Kiefe](#), Ph.D., chair, Department of Quantitative Health Sciences, University of Massachusetts, College of Medicine, as part of the Faculty Mentor Program workshop series.
- **February 22** from 7:30 am to 2 pm at the GC Ballrooms, the **Florida Undergraduate Research Conference**. This annual event is open to all undergraduate researchers in the State of Florida to present their research in a poster forum. Every year the conference will be hosted at a different university in the state on the last weekend in February. In addition to research presentations, there are also exhibitors from graduate programs and other opportunities targeted for students involved in undergraduate research.
- **February 25** (time TBD) in the MARC Pavilion, **NSF Grant Writing Workshop**, [Kathie L. Olsen](#), Ph.D., founder and managing director, Science Works.
- **February 26-28** from 8:30 am to 5 pm at FIU Graham Center Ballrooms, 4th International Conference on Tropical Medicine. Free for all FIU students. Please register at <http://medicine.fiu.edu/tropicalmedicine2014/>

March 2014

- **March 4** (time and location TBA), [Jim Klostergaard](#), Ph.D., professor of Molecular and Cellular Oncology, The University of Texas, M. D. Anderson Cancer Center, Houston, will speak as part of the Biomolecular Sciences Institute seminar series. This event will be hosted by [Raphael Raptis](#), Ph.D.
- **March 12** from 3:30 to 5 pm, MARC Pavilion, discussion on Team Science by [David Shaw](#), Ph.D.
- **March 15**—**abstracts due** for Third Annual Forensic Science Symposium
- **March 19** from 7 to 8 pm at Deering Estate at Cutler, **Macroalgae: Hidden Colors of the Sea**—[Ligia Collado-Vides](#), Ph.D., will discuss the link between research results and applications in marine conservation.
- **March 28** from 11 to 12pm in AHC 3 #205, **Regulation of Eukaryotic DNA Replication and Repair Fidelity by Protein Acetylation: Potential for Influencing Aging**, presented by [Robert Bambara](#), Ph.D., professor, Department of Microbiology and Immunology and Department of Biochemistry and Biophysics, University of Rochester School of Medicine and Dentistry, Rochester, NY as part of the Biomolecular Sciences Institute seminar series. This event is co-sponsored with the Department of Chemistry & Biochemistry and hosted by [Yuan Liu](#), Ph.D.

April 2014

- **April 30** from 1 to 7 pm and **May 1** from 8:30 am to 5 pm at SIPA Auditorium, [Third Annual Forensic Science Symposium](#). **Abstracts due by March 15**. Submit abstracts and register at <http://go.fiu.edu/ifri>

May 2014

- **May 2** (time and location TBA), by professor [Philip C. Hanawalt](#), Department of Biology, Stanford University will speak as part of the Biomolecular Sciences Institute seminar series. This event is hosted by [Yuan Liu](#), Ph.D.

Awards Received—December 2013

Florida International University researchers were awarded \$3,823,567 in December 2013. Below is a summary:

PI: Malek Adjouadi

ELEC AND COMPUTER ENG

Award Action Type: Initial

AWARDING SPONSOR: Mount Sinai Medical Center

TITLE: Imaging for Alzheimer Detection and Prediction

AWARD: \$19,250

PI: Jose Almirall

INT FORENSIC RSCH INSTITUTE

Award Action Type: Increase

AWARDING SPONSOR: Navy Systems Management Agency

TITLE: Forensic Ink Analysis And Comparison System (FIACS)

AWARD: \$ 185,996

PI: Heather Bracken-Grissom

BIOLOGY

Award Action Type: Increase

AWARDING SPONSOR: George Washington University

TITLE: Stress Response of Decapod Crustaceans to BP Oil Spill

AWARD: \$ 20,526

PI: Kathryn Elizabeth Brogan

DIETETICS AND NUTRITION

Award Action Type: Initial

AWARDING SPONSOR: Wayne State University

TITLE: Interventionist Procedures for Adherence to Weight Loss Recommendations in Black Adolescents

AWARD: \$ 20,992

PI: Jihua Chen

MECHANICAL AND MAT ENGINEERING

Award Action Type: Continuation

AWARDING SPONSOR: Carnegie Institute of Washington

TITLE: EFree - Energy Frontier Research in Extreme Environments

AWARD: \$ 60,000

PI: Jonathan Comer

CENTER FOR CHILDREN AND FAM

Award Action Type: Pre-Award

AWARDING SPONSOR: National Institute of Mental Health

TITLE: Evaluating the Feasibility of Internet-Delivered Parent-Child Interaction Therapy

AWARD: \$ 28,077

PI: Jose Miguel Cruz

POLITICS AND INTL RELATIONS

Award Action Type: Initial

AWARDING SPONSOR: Open Society Foundations

TITLE: The Transformation of Drug Policy

AWARD: \$ 144,000

PI: Carol E Damian

FROST ART MUSEUM

Award Action Type: Pre-Award

AWARDING SPONSOR: Miami-Dade County Cultural Affairs

TITLE: FY 2013-2014 MCI Frost Art Museum

AWARD: \$ 113,500

PI: Carol E Damian

FROST ART MUSEUM

Award Action Type: Initial

AWARDING SPONSOR: Miami-Dade County Cultural Affairs

TITLE: Philippe Dodard's Exhibition at the Patricia & Phillip Frost Art Museum - FIU

AWARD: \$ 15,000

PI: Francisco Alberto Fernandez Lima

CHEMISTRY

Award Action Type: Initial

AWARDING SPONSOR: Nova Southeastern University

TITLE: Development of radioligand for assay of angiotensin-converting enzyme-2 (ACE-2)

AWARD: \$ 7,300

PI: James Fourqurean

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Continuation

AWARDING SPONSOR: Environmental Protection Agency

TITLE: Seagrass Monitoring in the Florida Keys National Marine Sanctuary FY 2010-2011

AWARD: \$ 190,000

PI: Evelyn Gaiser

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Increase

AWARDING SPONSOR: National Science Foundation

TITLE: LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research – Gaiser LTER III:Infrastructure

AWARD: \$ 532,435

PI: Evelyn Gaiser

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Increase

AWARDING SPONSOR: National Science Foundation

TITLE: LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research – FCE LTER III:: REU

AWARD: \$ 16,000

PI: Evelyn Gaiser

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Increase

AWARDING SPONSOR: National Science Foundation

TITLE: LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research – Troxler FCE LTER III

AWARD: \$ 75,896

PI: Evelyn Gaiser

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Increase

AWARDING SPONSOR: National Science Foundation

TITLE: LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research – Heithaus LTER III: Trophic Dyna	AWARD: \$ 68,996
PI: Evelyn Gaiser SOUTHEAST ENV RESEARCH CTR Award Action Type: Increase AWARDING SPONSOR: National Science Foundation	
TITLE: LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research – Jaffe LTER III: Organic Matter	AWARD: \$ 71,915
PI: Evelyn Gaiser SOUTHEAST ENV RESEARCH CTR Award Action Type: Increase AWARDING SPONSOR: National Science Foundation	
TITLE: LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research – Briceno FCE LTER III: Legacies	AWARD: \$ 63,707
PI: Evelyn Gaiser SOUTHEAST ENV RESEARCH CTR Award Action Type: Increase AWARDING SPONSOR: National Science Foundation	
TITLE: LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research – Price FCE LTER III: Water	AWARD: \$ 80,583
PI: Cheng-Tin Gan CIVIL AND ENVIRON ENGINEERING Award Action Type: Initial AWARDING SPONSOR: Florida Department of Transportation	
TITLE: ITS RESEARCH, COMPUTER, AND MISCELLANEOUS SUPPORT (WO 462-02)	AWARD: \$ 75,000
PI: Orlando J Garcia MUSIC Award Action Type: Initial AWARDING SPONSOR: National String Project Consortium	
TITLE: FIU School of Music String Project	AWARD: \$ 10,000
PI: Mohammed A Hadi CIVIL AND ENVIRON ENGINEERING Award Action Type: Initial AWARDING SPONSOR: University of Florida	
TITLE: Signal Timing Optimization with Consideration of Environmental and Safety Impacts	AWARD: \$ 64,000
PI: Julio E Ibarra CIARA Award Action Type: Initial AWARDING SPONSOR: National Science Foundation	
TITLE: Big Data Big Network	AWARD: \$ 49,000
PI: Young Cheol Kang CONSTRUCTION MANAGEMENT Award Action Type: Supplemental AWARDING SPONSOR: Chung-Ang University	
TITLE: Development of Construction and Operation Methods for Low-	

Carbon Green Airport Pavement	AWARD: \$	38,526
 PI: Konstantinos Kavallieratos ARC APPLIED RESEARCH CENTER Award Action Type: Increase AWARDING SPONSOR: U.S. Nuclear Regulatory Commission TITLE: FIU Nuclear Scholarship (FNS) Program		
	AWARD: \$	8,052
 PI: John Kominoski SOUTHEAST ENV RESEARCH CTR Award Action Type: Increase AWARDING SPONSOR: National Science Foundation TITLE: LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research		
	AWARD: \$	70,467
 PI: Robert Lickliter DOR - DIVISION OF RESEARCH Award Action Type: Increase AWARDING SPONSOR: General Medical Sciences TITLE: MBRS Research Initiative for Scientific Enhancement: FIU MBRS RISE - Administrative		
	AWARD: \$	19,448
 PI: Robert Lickliter DOR - DIVISION OF RESEARCH Award Action Type: Increase AWARDING SPONSOR: General Medical Sciences TITLE: MBRS Research Initiative for Scientific Enhancement: FIU MBRS RISE - Trainee		
	AWARD: \$	1,270
 PI: Hong Liu EARTH AND ENVIRONMENT Award Action Type: Increase AWARDING SPONSOR: Fairchild Tropical Botanic Garden TITLE: Conservation ecology of selected plants in Halmahera, Indonesia Graduate Assistantship for Melissa Abdo		
	AWARD: \$	102
 PI: Yuan Liu CHEMISTRY Award Action Type: Initial AWARDING SPONSOR: National Institutes of Health TITLE: Trinucleotide Repeat Instability via DNA Damage and Repair		
	AWARD: \$	318,785
 PI: Debra Lundy SCH OF HOSP AND TOURISM MGMT Award Action Type: Initial AWARDING SPONSOR: Miami-Dade County Cultural Affairs TITLE: 2014 Food Network South Beach Wine & Food Festival		
	AWARD: \$	78,058
 PI: Aime Martinez OFFICE OF SUSTAINABILITY Award Action Type: Initial AWARDING SPONSOR: Florida Department of Agriculture and Co TITLE: FIU Nature Preserve "The Preserve"		
	AWARD: \$	10,000
 PI: Kalai Mathee-narasimhan COM MOLECULAR MICROBIOLOGY		

Award Action Type: Increase

AWARDING SPONSOR: National Science Foundation

TITLE: CREST-I/UCRC-Industry Ecosystem to Pipeline Research

AWARD: \$ 39,800

PI: Maria Jose Miguez Perez

DOR - DIVISION OF RESEARCH

Award Action Type: Initial

AWARDING SPONSOR: Florida Department of Health

TITLE: Menthol or Not menthol: How Smoking is related to Bone Mineral Density in People With and Without HIV

AWARD: \$ 399,659

PI: Norman D Munroe

MECHANICAL AND MAT ENGINEERING

Award Action Type: Initial

AWARDING SPONSOR: City of Coral Gables Police Department

TITLE: Materials assessment and characterization of firing pins from the Glock firearm used by the City of Coral Gables Police Department

AWARD: \$ 4,500

PI: Edward P Murray

METROPOLITAN CENTER

Award Action Type: Initial

AWARDING SPONSOR: Miami-Dade County

TITLE: Miami-Dade Economic Advocacy Trust (MDEAT) Annual Report Card and Scorecard

AWARD: \$ 48,600

PI: Richard Olson

INTERNATIONAL HURRICANE CENTER

Award Action Type: Initial

AWARDING SPONSOR: Florida Division of Emergency Management

TITLE: Hurricane Loss Reduction for Housing in Florida 2013

AWARD: \$ 214,747

PI: Richard Olson

INTERNATIONAL HURRICANE CENTER

Award Action Type: Initial

AWARDING SPONSOR: Florida Division of Emergency Management

TITLE: Sub-Project: Hurricane Loss Reduction for Housing in Florida 2013

AWARD: \$ 104,296

PI: Richard Olson

INTERNATIONAL HURRICANE CENTER

Award Action Type: Initial

AWARDING SPONSOR: Florida Division of Emergency Management

TITLE: Sub-Project: Hurricane Loss Reduction for Housing in Florida 2013

AWARD: \$ 256,205

PI: Richard Olson

INTERNATIONAL HURRICANE CENTER

Award Action Type: Initial

AWARDING SPONSOR: Florida Division of Emergency Management

TITLE: Sub-Project: Hurricane Loss Reduction for Housing in Florida 2013

AWARD: \$ 124,753

PI: Niki J Pissinou

COMPUTER INFO SCIENCES

Award Action Type: Increase

AWARDING SPONSOR: National Science Foundation

TITLE: REU SITE: ASSET: Research Experiences for Undergraduates in Advanced Secured Sensor Enabling Technologies

AWARD: \$ 83,055

PI: Surendra K Saxena**MECHANICAL AND MAT ENGINEERING****Award Action Type:** Initial**AWARDING SPONSOR:** Iowa State University**TITLE:** Sustainable Allow Design: Searching for Rare Earth Element Alternatives through Crystal Engineering**AWARD:** \$ 80,000**PI:** Ines R Triay Melendez**ARC APPLIED RESEARCH CENTER****Award Action Type:** Increase**AWARDING SPONSOR:** Independent Strategic Management Solutio**TITLE:** ISM Solutions Task Order**AWARD:** \$ 869**PI:** Ines R Triay Melendez**ARC APPLIED RESEARCH CENTER****Award Action Type:** Supplemental**AWARDING SPONSOR:** Independent Strategic Management Solutio**TITLE:** Sub-Project: ISM Solutions Task Order**AWARD:** \$ 1,816**PI:** Diana M Valle-Riestra**COE TEACHING AND LEARNING****Award Action Type:** Increase**AWARDING SPONSOR:** Office of Special Education Programs**TITLE:** Project PEACE**AWARD:** \$ 1,186**PI:** Diana M Valle-Riestra**COE TEACHING AND LEARNING****Award Action Type:** Increase**AWARDING SPONSOR:** Office of Special Education Programs**TITLE:** Project PEACE: MENTOR PAYMENTS**AWARD:** \$ 7,200

Limited Submission Funding Opportunities

Below is a limited submission funding opportunity with an internal deadline for the month of March 2014.

Agency	Program	Institutional Submission Limits	Internal Deadline	Agency Deadline
NIH	<u>Jointly Sponsored Ruth L. Kirschstein National Research Service Award Institutional Predoctoral Training Program in the Neurosciences (T32)</u> (PAR-12-084)	Only one application per institution is allowed.	3/25/2014	Letter of Intent: 4/25/2014 Full Application: 5/25/2014
NIH	<u>Alzheimer's Disease Research Centers (P50)</u> (RFA-AG-15-002)	Only one application per institution is allowed.	3/14/2014	Prelim Proposal Due: 4/14/2014 Agency Proposal Deadline: 5/14/2014
NIH	<u>Alzheimer's Disease Core Centers (P30)</u> (RFA-AG-15-001)	Only one application per institution is allowed.	3/14/2014	Prelim Proposal Due: 4/14/2014 Agency Proposal Deadline: 5/14/2014
NIH	<u>Team-Based Design in Biomedical Engineering Education (R25)</u> (PAR-13-111)	Only one application per institution is allowed.	3/14/2014	Letter of Intent Due: 4/14/2014 Application Due: 5/13/2014
NIH	<u>Botanical Dietary Supplement Research Centers (BDSRC) (P50)</u> (RFA-OD-14-001)	Limit one application per institution.	3/06/2014	Letter of Intent Due: 4/06/2014 Full Proposal Deadline: 6/06/2014
NIH	<u>The NEI Mentored Clinical Scientist Development Program Award (K12)</u> (PAR-12-002)	Only one application per institution is allowed.	3/4/2014	5/14/2014

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

Intelligence Community - Center for Academic Excellence

Funding Opportunity Number: HHM402-14-BAA-243

Application Deadline: March 15, 2014

Description: Accessing the 2014 IC CAE Broad Agency Announcement, #HHM402-14-BAA-243 The Broad Agency Announcement (BAA) for new IC Centers for Academic Excellence grants has been posted on www.grants.gov, the single point for all government grants. New users of www.grants.gov website need to first register and obtain a user identifier and password to use for logging into the site. Once registered and logged into the website, an applicant can click the “Current Efforts” tab and select the “Intelligence Community Centers for Academic Excellence Broad Agency Announcement #HHM402-14-BAA-243” page under the list. A “Frequently Asked Questions” section will be developed where all can view responses to all questions and comments, including those submitted by other organizations. Answers will be posted as they are developed. All questions are sent to ~243CAE@dodis.mil. Applicants are encouraged to review all previous questions and answers prior to posting a question to avoid duplication of questions.

<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Folded Non-Natural Polymers with Biological Function (Fold F(x))

Funding Opportunity Number: DARPA-BAA-14-13

Application Deadline: April 3, 2014

Description: The DARPA Fold F(x) program objective is to develop processes enabling the rapid synthesis, screening, sequencing and scale-up of folded, non-natural, sequence-defined polymers with expanded functionality. The program will specifically address the development of non-natural affinity reagents that can bind and respond to a selected target, as well as catalytic systems that can either synthesize or degrade a desired target. DARPA anticipates that successful efforts will include (1) novel synthetic approaches that yield large libraries (>10⁹ members) of non-natural sequence-defined polymers; (2) flexible screening strategies that enable the selection of high affinity/specificity binders and high activity/selectivity catalysts from the non-natural libraries; (3) demonstration that the screening approach can rapidly (<4 days) yield affinity reagents or catalysts against targets of interest to the DoD; and (4) demonstration of scalability and transferability to the DoD scientific community. See Attached DARPA-BAA-14-13.

<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Kabul Polytechnic University Initiative

Funding Opportunity Number: HQ0034-14-R-0042

Application Deadline: **February 8, 2014**

Description: The Task Force for Business and Stability Operations in Afghanistan (TFBSO) was formed in 2010 with a mission to create economic opportunities for the people of Afghanistan. TFBSO's goal is to create stabilization through economic development by encouraging investment, developing its natural resources, and assisting industrial development and agricultural revitalization. Through these activities and by working with dedicated teams of U.S. government, business leaders, and Afghan citizens in support of the economic line of operation, the Task Force is able to deliver economic development capabilities in an agile and efficient manner in order to enhance and accelerate reconstruction efforts. The continuation of these critical TFBSO activities is therefore of paramount importance. The mission of the Task Force for Business and Stability Operations is to Support Business and Stability Operations in Afghanistan. TFBSO continues to focus on evaluating fragile state business enterprise processes and associated systems in fragile states affecting contracting, logistics, fund distribution, financial management and align to the theater commanders goals for reconstruction and economic development. TFBSO's mission is to assist the Afghan people in forming and developing Afghanistan's post-conflict society. TFBSO proposes to fund an Academic Development Initiative with two to three qualified U.S. universities and the Kabul Polytechnic University (KPU) in Kabul, Afghanistan. The funds will be in the form of

a grant. KPU graduates roughly 3,500 students per year. These graduates will have the opportunity to use their education to obtain jobs in the rapidly growing mineral and hydrocarbon sectors in Afghanistan. Job opportunities are available in both the public and private sectors. This initiative looks to partner with two to three U.S. universities, one of which will have experience in developing a geology and mining curriculum or similar programs customized for countries with newly developing mineral and hydrocarbon industries. A program will be developed to offer state-of-the-art training to KPU faculty who teach geology- and mining-related courses. New information acquired during the training will be incorporated into the courses taught at KPU to enhance the quality of the students' education.

<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Department of Education

Small Business Innovation Research (SBIR) Phase I

Funding Opportunity Number: ED-GRANTS-121613-003

CFDA Number(s): 84.133S2014-1

Deadline for Transmittal of Applications: **February 14, 2014**

Description: The purpose of this program is to stimulate technological innovation in the private sector, strengthen the role of small business in meeting Federal research or research and development (R/R&D) needs, increase the commercial application of Department of Education (ED) supported research results, and improve the return on investment from Federally-funded research for economic and social benefits to the Nation. Firms with strong research capabilities in educational and assistive technologies, science, or engineering in any of the priority areas listed within are encouraged to participate. Consultative or other arrangements between such firms and universities or other non-profit organizations are permitted, but the small business must serve as the grantee. 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-121613-004

CFDA Number(s): 84.149

Deadline for Transmittal of Applications: **February 19, 2014**

Description: The purpose of the College Assistance Migrant Program (CAMP) is to provide the academic and financial support necessary to help migrant and seasonal farmworkers and members of their immediate family successfully complete their first year of college. Invitational Priority 1 – Science, Technology, Engineering and Mathematics Education (STEM); Invitational Priority 2 – Faith-Based and Community Organizations. For more information, visit www.grants.gov and search by opportunity number.

Personnel Development To Improve Services and Results for Children With Disabilities--Preparation of Special Education, Early Intervention, and Related Services Leadership Personnel

Funding Opportunity Number: ED-GRANTS-011014-001

CFDA Number(s): 84.325

Deadline for Transmittal of Applications: **February 24, 2014**

Description: The purposes of this program are to (1) help address State-identified needs for personnel preparation in special education, related services, early intervention, and regular education to work with children, including infants and toddlers, with disabilities; and (2) ensure that those personnel have the necessary skills and knowledge, derived from practices that have been determined through scientifically based research and experience, to be successful in serving those children. For more information, visit www.grants.gov and search by opportunity number.

OSERS: National Institute on Disability and Rehabilitation Research: Disability and Rehabilitation Research Projects and Centers Program: Field Initiated Projects Program

Funding Opportunity Number: Separate opportunities listed under Description

CFDA Number(s): 84.133G

Deadline for Transmittal of Applications: **February 28, 2014**

Description: The purpose of the Field Initiated (FI) Projects program is to develop methods, procedures, and rehabilitation technology that maximize the full inclusion and integration into society, employment, independent living, family support, and economic and social self-sufficiency of individuals with disabilities, especially

individuals with the most severe disabilities. Another purpose of the FI Projects program is to improve the effectiveness of services authorized under the Rehabilitation Act of 1973, as amended.

NIDRR makes two types of awards under the FI Projects program:

1. ED-GRANTS-123013-001 Research grants CFDA 84.133G-1: In carrying out a research activity under an FI Projects research grant, a grantee must identify one or more hypotheses or research questions and, based on the hypotheses or research questions identified, perform an intensive, systematic study directed toward producing (1) new scientific knowledge, or (2) better understanding of the subject, problem studied, or body of knowledge.
2. ED-GRANTS-123013-002 Development grants CFDA 84.133G-2: In carrying out a development activity under an FI Projects development grant, a grantee must use knowledge and understanding gained from research to create materials, devices, systems, or methods, including designing and developing prototypes and processes, that are beneficial to the target population. "Target population" means the group of individuals, organizations, or other entities expected to be affected by the project. There may be more than one target population because a project may affect those who receive services, provide services, or administer services.

For more information, visit www.grants.gov and search by opportunity number.

**Office of Innovation and Improvement (OII):Credit Enhancement for Charter School Facilities Program
Funding Opportunity Number: ED-GRANTS-011514-001**

CFDA Number(s): 84.354

Deadline for Transmittal of Applications: March 3, 2014

Description: This program provides grants to eligible entities to permit them to enhance the credit of charter schools so that they can access private-sector and other non-Federal capital in order to acquire, construct, and renovate facilities at a reasonable cost. Grant projects awarded under this program will be of sufficient size, scope, and quality to enable the grantees to implement effective strategies for reaching that objective. For more information, visit www.grants.gov and search by opportunity number.

Educational Technology, Media, and Materials for Individuals With Disabilities--Stepping-up Technology Implementation

Funding Opportunity Number: ED-GRANTS-010914-001

CFDA Number(s): 84.327

Deadline for Transmittal of Applications: March 10, 2014

Description: The purposes of the Educational Technology, Media, and Materials for Individuals with Disabilities Program are to: (1) improve results for students with disabilities by promoting the development, demonstration, and use of technology; (2) support educational activities designed to be of educational value in the classroom for students with disabilities; (3) provide support for captioning and video description that is appropriate for use in the classroom; and (4) provide accessible educational materials to children with disabilities in a timely manner. For more information, visit www.grants.gov and search by opportunity number.

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>

Youth Arts Miami (YAM) Grant Program Summary

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (YAM Specific): 2/11/2014 – 2:00 pm; 2/18/2014 – 10:00 am

Application Deadline: **Friday, February 28, 2014 - 4:00 pm**

Description: Youth Arts Miami provides operational funding support to established non-profit youth arts organizations having a year-round presence in Miami-Dade County, whose primary mission is to create, present or exhibit cultural arts programs for and/or with children and youth. Applicants to this program must have at least a 3-year consecutive track record of providing a year-round season of youth arts activities for children/youth. Programming must include public access components such as performances or exhibitions. Units of government and educational institutions such as schools, colleges and universities may not apply. This program is funded in part by The Children's Trust. **Category A** funds large-sized professional youth arts organizations possessing the potential to achieve regional, national or international visibility as evidenced by the organization's current programs and structure; and demonstrating total prior year's operating revenues of more than \$500,000, (including in-kind services support not to exceed 25% of total cash operating revenues). See guidelines for additional eligibility criteria. **Category B** - funds mid-sized semi-professional and professional youth arts organizations demonstrating operating revenues of between \$200,000 and \$500,000, for the last completed fiscal year (including in-kind services support not to exceed 25% of total cash operating revenues), and that employs at least one paid professional administrator. **Category C** - funds small and/or developing youth arts organizations with annual operating revenues under \$200,000 (including in-kind services support not to exceed 25% of total cash operating revenues). <http://miamidadearts.culturegrants.org/navigation/links/page/youth-arts-miami-yam>

International Cultural Exchange (ICE)

Funding Opportunity Number: N/A

CGO Online Grants System Workshops: Visit CGO Miami Homepage for dates & times:

<http://miamidadearts.culturegrants.org/navigation/links/page/homepage>

Application Deadline: Monday, March 3, 2014 – 4:00 PM

Description: The International Cultural Exchange 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 accomplish the following two objectives:

1. elevate Miami-Dade County's image abroad; and
2. to 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.

IF YOU REQUEST:	YOUR MINIMUM MATCHING REQUIREMENT IS:
up to \$20,000	one matching dollar to one grant request dollar
between \$20,001 and \$30,000	1.5 matching dollars to one grant request dollar
between \$30,001 and \$40,000	two matching dollars to one grant request dollar

Successful applicants are required to maintain matching funds in the same ratio as the category in which they applied. Total in-kind contributions for the project may not exceed 25% of the total project budget. **An ICE grant** shall not be considered the sole source of funding.

<http://miamidadearts.culturegrants.org/navigation/links/page/international-cultural-exchange-ice>

Community Grants Program (CG)

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (CG Specific): Wednesday, February 26, 2014, 2 PM

Application Deadline: Wednesday, March 12, 2014– 4PM

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>

Hannibal Cox, Jr. (HCJ) Cultural Grants Program

Funding Opportunity Number: N/A

Grant System Basics Workshop: Visit CGO Miami Homepage for dates & times: <http://miamidadearts.culturegrants.org/navigation/links/page/homepage>

Application Deadline: Thursday, March 13, 2014 - 4:00PM

Description: The Hannibal Cox, Jr. 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. Units of government may not apply. **Category A** – funds organizations with a two-year average annual operating cash revenue budget in excess of \$200,000 (excluding in-kind support) for operations and activities in Miami-Dade County only. **Category B**– funds organizations with an annual operating revenue budget between \$100,000-\$200,000 (including in-kind support of no more than 25% of total revenues) for operations and activities in Miami-Dade County only.

<http://miamidadearts.culturegrants.org/navigation/links/page/hannibal-cox-jr-hcj>

Capital Development (CAP) Grants Program

Funding Opportunity Number: N/A

Grant System Basics Workshop: Visit CGO Miami Homepage for dates & times: <http://miamidadearts.culturegrants.org/navigation/links/page/homepage>

Application Deadline: Tuesday, March 18, 2014 - 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. Grants are awarded on an extremely competitive basis based on panel evaluation. There is no guarantee that your proposal will be recommended for funding. In addition to other eligibility requirements listed in the CAP guidelines, organizations must have site control of the proposed facility (located in Miami-Dade County) either through ownership or having an *executed* long-term lease with an *unexpired*, 5-year minimum term (the lease must be in the non-profit’s name). It is mandatory to schedule a consultation appointment with the CAP program administrator **prior** to submitting an online application (access to the CAP online application will *only* be granted *after* the organization’s consultation has occurred). In addition, first-time applicants are required to also attend a Pre-Grant Submission Workshop before accessing the Culture Grants Online (CGO) system. <http://miamidadearts.culturegrants.org/navigation/links/page/capital-development-cap>

Cultural Advancement Grant Program (ADV)

Funding Opportunity Number: N/A

Grant System Basics Workshop: Visit CGO Miami Homepage for dates & times: <http://miamidadearts.culturegrants.org/navigation/links/page/homepage>

Application Deadline: Thursday, March 20, 2014 - 4:00 PM

Description: The Cultural Advancement Grants Program operates on a three-year review cycle with a pre-application qualification and invitation to apply, comprehensive application submission, and a panel review completed in the first year (FY 2013-2014) and a more streamlined application form and review process for the

subsequent two years (FY 2014-2015 and FY 2015-2016). ADV provides significant grants and technical assistance to a designated group of Miami-Dade County's mid to large size, artistically excellent and culturally diverse performing, visual, literary and presenting arts organizations. Qualifying organizations are engaged year-round in the creation or presentation of art, within or across artistic fields and disciplines, and demonstrate the potential to achieve regional, national, or international visibility as evidenced by current artistic programs and management structure. **CATEGORY A:** Provides grants to professional, mid to large size arts organizations for the year-round creation or presentation of art. Applicants must have a historical organizational budget over \$500,000. **CATEGORY B:** Operates as an institute-type program providing grants, marketing and management assistance to semi-professional and professional, mid-size arts organizations with a historical organizational budget between \$200,000 and \$500,000. <http://miamidadearts.culturegrants.org/navigation/links/page/cultural-advancement-adv>

National Aeronautics & Space Administration

Rapid Response and Novel Research in Earth Science

Funding Opportunity Number: NNH13ZDA001N-RRNES

Application Deadline: March 31, 2014

Description: This program element solicits proposals that advance the goals and objectives of NASA's Earth Science Division by conducting unique research to investigate 1) unforeseen or unpredictable Earth system events and opportunities that require rapid response, and 2) novel new ideas of potential high merit and relevance for ESD science that have not otherwise been solicited by NASA in the past three years.

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={1AD67557-8EEB-A20B-40AB-7E4901C40B90}&path=open>

Topical Workshops, Symposia, and Conferences

Funding Opportunity Number: NNH13ZDA001N-TWSC

Application Deadline: March 31, 2014

Description: This program element solicits proposals for topical workshops, symposia, conferences, and other scientific/technical meetings (herein referred to as "events") that advance the goals and objectives of only the following SMD Divisions: Earth Science and Planetary Science.

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={F383AF97-D201-8086-0441-48BF94D632BA}&path=open>

Experimental Program to Stimulate Competitive Research (EPSCoR)

Funding Opportunity Number: NNH14ZHA001C

Pre-Application Deadline (LOI only): February 24, 2014

Application Deadline: March 24, 2014

Description: Each funded NASA EPSCoR proposal is expected to establish research activities that will make significant contributions to the strategic research and technology development priorities of one or more of the Mission Directorates, and contribute to the overall research infrastructure, science and technology capabilities, higher education, and economic development of the jurisdiction.

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={86CEF2E1-A38C-3105-EB90-76DF6BAB2298}&path=init>

National Endowment for the Arts

Art Works FY 2015

Funding Opportunity Number: [2014NEA01AW1](#)

Application Deadline: **02/20/2014**

Description: The guiding principle of "Art Works" is at the center of everything we do at the NEA. "Art Works" refers to three things: the works of art themselves, the ways art works on audiences, and the fact that art is work for the artists and arts professionals who make up the field. To make "art work," the NEA has included the advancement of innovation as a core component of its mission as a way to ensure the vitality of the arts. We recognize that arts and design organizations are often in the forefront of innovation in their work and strongly encourage innovative projects that are characterized as those that:

- Are likely to prove transformative with the potential for meaningful change, whether in the development or enhancement of new or existing art forms, new approaches to the creation or presentation of art, or new ways of engaging the public with art;
- Are distinctive, offering fresh insights and new value for their fields and/or the public through unconventional solutions; and
- Have the potential to be shared and/or emulated, or are likely to lead to other advances in the field.

Through the projects that we support in the Art Works category, we want to achieve the following four outcomes:

- Creation: The creation of art that meets the highest standards of excellence,
- Engagement: Public engagement with diverse and excellent art,
- Learning: Lifelong learning in the arts, and
- Livability: The strengthening of communities through the arts.

<http://www.grants.gov/web/grants/search-grants.html>

Challenge America Fast-Track, FY 2015

Funding Opportunity Number: 2014NEA01CAFT

Application Deadline: 05/08/2014

Description: The Challenge America Fast-Track category offers support primarily to small and mid-sized organizations for projects that extend the reach of the arts to underserved populations—those whose opportunities to experience the arts are limited by geography, ethnicity, economics, or disability. Age alone (e.g., youth, seniors) does not qualify a group as underserved; at least one of the underserved characteristics noted above also must be present. Grants are available for professional arts programming and for projects that emphasize the potential of the arts in community development. This category encourages and supports the following two outcomes: Engagement: Engaging the public with diverse and excellent art.

<http://www.grants.gov/web/grants/search-grants.html>

National Endowment for the Humanities

Programming Grants to Accompany NEH on the Road Exhibitions

Funding Opportunity Number: 20141231-MR

Application Deadline: 12/31/2014

Description: These grants support ancillary public humanities programs to accompany NEH on the Road traveling exhibitions. Typical formats involve lectures, reading and discussion programs, film discussion programs, Chautauqua presentations by scholars, family programs, exhibition tours, and other appropriate formats for reaching the general public. <http://www.neh.gov/grants/public/programming-grants-accompany-neh-the-road-exhibitions>

Institutes for Advanced Topics in the Digital Humanities

Funding Opportunity Number: 20140314-HT

Application Deadline: 03/11/2014

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 projects may be a single opportunity or offered multiple times to different audiences. Institutes may be as short as a few days and held at multiple locations or as long as six weeks at a single site. For example, training opportunities could be offered before or after regularly occurring scholarly meetings, during the summer months, or during appropriate times of the academic year. The duration of a program should allow for full and thorough treatment of the topic.

<http://www.neh.gov/grants/odh/institutes-advanced-topics-in-the-digital-humanities>

Summer Seminars and Institutes

Funding Opportunity Number: 20140304-FS

Application Deadline: 03/04/2014

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.

<http://www.neh.gov/grants/education/summer-seminars-and-institutes>

Landmarks of American History and Culture: Workshops for School Teachers

Funding Opportunity Number: 20140304-BH

Application Deadline: 03/04/2014

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. NEH Landmarks Workshops are academically rigorous and focus on key primary sources and scholarly works relevant to major themes of American history and culture. Leading scholars should serve as lecturers or seminar leaders. Workshops should also enable participants to work with primary documents and develop a project. <http://www.neh.gov/grants/education/landmarks-american-history-and-culture-workshops-school-teachers>

National Institutes of Health

Centers of Excellence in Self-Management: Building Research Teams for the Future (P20)

Funding Opportunity Number: RFA-NR-14-001

Application Receipt Date(s): March 11, 2014

Description: This Funding Opportunity Announcement invites applications to establish Centers of Excellence for Self-Management Research: Building Research Teams for the Future (P20). The purpose of the program is to enhance interdisciplinary, bio-behavioral research for scientists conducting self-management research by enabling development of a sustainable research infrastructure and centralized resources in support of research programs in various science areas. The purpose of the P20 Center is to: (1) develop new and a potential sustainable interdisciplinary, bio behavioral research capacity for scientists conducting nursing research by establishing centralized research resources and a research infrastructure; (2) build the Center's thematic science area through complementary, synergistic research activities; and (3) begin to grow feasibility research that will develop into new research teams of the future and independent investigator research applications.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-NR-14-001.html>

Centers of Excellence in Self-Management Research (P30)

Funding Opportunity Number: RFA-NR-14-002

Application Receipt Date(s): March 11, 2014

Description: This Funding Opportunity Announcement invites applications to establish Centers of Excellence for Self-Management Research: Building Research Teams for the Future (P30). The purpose of the program is to enhance interdisciplinary, bio behavioral research for scientists conducting self-management research by enabling development of a sustainable research infrastructure and centralized resources in support of research programs in various science areas. <http://grants.nih.gov/grants/guide/rfa-files/RFA-NR-14-002.html>

Substance Use and Abuse, Risky Decision Making and HIV/AIDS (R01)**Funding Opportunity Number:** PA-14-061**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) is intended to stimulate model-driven research to understand the ways that people make decisions about engaging in behaviors that impact the risk of acquiring or transmitting HIV, or to adhere to treatments for HIV. Decision making processes may contribute to both substance use/abuse and other HIV acquisition or transmission risks. A better understanding of decision making processes in the context of brain neural networks and their associated functions would lead to the development of better strategies to reduce the frequency of HIV-risk behaviors. Therefore, this FOA encourages applications to study 1) cognitive, motivational or emotional mechanisms and/or 2) brain neuroendocrine and reinforcement systems that related to HIV-risk behaviors or treatment non-compliance. Interdisciplinary studies that incorporate approaches from psychology, economics, anthropology, sociology, decision sciences, neuroscience and computational modeling are encouraged. This FOA for R01 applications solicits empirical, hypothesis-driven, confirmatory research and modeling approaches. Exploratory, descriptive or hypothesis-generating research are more appropriate for the complementary FOA's using the R21 or R03 mechanisms. In no cases, should research involving animals be proposed. <http://grants.nih.gov/grants/guide/pa-files/PA-14-061.html>

Substance Use and Abuse, Risky Decision Making and HIV/AIDS (R21)**Funding Opportunity Number:** PA-14-062**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) is intended to stimulate model-driven research to understand the ways that people make decisions about engaging in behaviors that impact the risk of acquiring or transmitting HIV, or to adhere to treatments for HIV. Decision making processes may contribute to both substance use/abuse and other HIV acquisition or transmission risks. A better understanding of decision making processes in the context of brain neural networks and their associated functions would lead to the development of better strategies to reduce the frequency of HIV-risk behaviors. Therefore, this FOA encourages applications to study 1) cognitive, motivational or emotional mechanisms and/or 2) brain neuroendocrine and reinforcement systems that related to HIV-risk behaviors or treatment non-compliance. Interdisciplinary studies that incorporate approaches from psychology, economics, anthropology, sociology, decision sciences, neuroscience and computational modeling are encouraged. This FOA for R21 applications is intended to encourage exploratory and developmental research projects by providing support for the early and conceptual stages of these projects. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel techniques, agents, methodologies, models, or applications that could have a major impact. <http://grants.nih.gov/grants/guide/pa-files/PA-14-062.html>

Substance Use and Abuse, Risky Decision Making and HIV/AIDS (R03)**Funding Opportunity Number:** PA-14-063**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) is intended to stimulate model-driven research to understand the ways that people make decisions about engaging in behaviors that impact the risk of acquiring or transmitting HIV, or to adhere to treatments for HIV. Decision making processes may contribute to both substance use/abuse and other HIV acquisition or transmission risks. A better understanding of decision making processes in the context of brain neural networks and their associated functions would lead to the development of better strategies to reduce the frequency of HIV-risk behaviors. Therefore, this FOA encourages applications to study 1) cognitive, motivational or emotional mechanisms and/or 2) brain neuroendocrine and reinforcement systems that related to HIV-risk behaviors or treatment non-compliance. Interdisciplinary studies that incorporate approaches from psychology, economics, anthropology, sociology, decision sciences, neuroscience and computational modeling are encouraged. This FOA for R03 applications encourages small research projects that can be carried out in a short period of time with limited resources. The R03 activity code supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. In no cases, should research involving animals be proposed. <http://grants.nih.gov/grants/guide/pa-files/PA-14-063.html>

Research Using Subjects From Selected Type I Diabetes Clinical Studies (Living Biobank) (DP3)**Funding Opportunity Number:** PAR-14-064**Application Receipt/Submission Date(s):** April 10, 2014

Description: This FOA invites applications for ancillary studies that use subjects enrolled in (or screened for participation in) the Type 1 Diabetes TrialNet clinical trials network, OR for ancillary studies that use subjects enrolled in the Diabetes Control and Complications Trial (DCCT)/Epidemiology of Diabetes Interventions and Complications (EDIC). Studies are expected to generate scientific discoveries on disease mechanisms, disease pathogenic processes, and biomarkers of disease progression or clinical responses, or complications of type 1 diabetes. This FOA is not intended to fund clinical trials with endpoints for clinical efficacy (including but not limited to C-peptide preservation). <http://grants.nih.gov/grants/guide/pa-files/PAR-14-064.html>

Research Using Biosamples from Selected Type 1 Diabetes Clinical Studies (DP3)**Funding Opportunity Number:** PAR-14-065**Application Receipt/Submission Date(s):** April 10, 2014

Description: This FOA invites applications for ancillary studies using archived samples from selected diabetes clinical trials and studies. Ancillary studies are expected to generate scientific discoveries on type 1 diabetes primary pathogenesis or the pathogenesis of complications, and biomarkers of disease progression or clinical responses to interventions. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-065.html>

Fundamental Mechanisms of Affective and Decisional Processes in Cancer Control (U01)**Funding Opportunity Number:** PAR-14-067)

Application Receipt/Submission Date(s): June 10, 2014; October 15, 2014; June 10, 2015; October 14, 2015; June 10, 2016; October 14, 2016, by 5:00 PM local time of applicant organization.

Description: The purpose of this Funding Opportunity Announcement (FOA) is to encourage projects to generate fundamental knowledge of affective processes. Basic affective science projects should have key downstream consequences for single (e.g., genetic testing consent) and multiple (e.g., adherence to oral chemotherapy regimen) event decisions and behaviors across the cancer prevention and control continuum. The FOA is expected to encourage scientific disciplines that have not traditionally conducted cancer research – such as affective and cognitive neuroscience, decision science, and consumer science – to elucidate perplexing and understudied problems in basic affective and decision sciences with promise of having downstream implications for cancer prevention and control science. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-067.html>

Alzheimer's Disease Core Centers (P30)**Funding Opportunity Number:** RFA-AG-15-001**Application Receipt Date(s):** May 14, 2014

Description: This Funding Opportunity Announcement (FOA) invites applications from qualified institutions for support of Alzheimer's Disease Core Centers (ADCCs). These centers are designed to support and conduct research on Alzheimer's disease (AD), to serve as shared research resources that will facilitate research in AD and related disorders, distinguish them from the processes of normal brain aging and mild cognitive impairment (MCI), provide a platform for training, develop novel techniques and methodologies, and translate these research findings into better diagnostic, prevention and treatment strategies. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-001.html>

Alzheimer's Disease Research Centers (P50)**Funding Opportunity Number:** RFA-AG-15-002**Application Receipt Date(s):** May 14, 2014

Description: This Funding Opportunity Announcement (FOA) invites applications from qualified institutions for support of Alzheimer's Disease Research Centers (ADRCs). These centers are designed to support and conduct research on Alzheimer's disease (AD), to serve as shared research resources that will facilitate research in AD and related disorders, distinguish them from the processes of normal brain aging and mild cognitive impairment (MCI), provide a platform for training, collect biospecimens useful for clinical research, develop novel techniques and methodologies, and translate these research findings into better diagnostic, prevention, treatment and care strategies. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-002.html>

Cystic Fibrosis Research and Translation Core Center (P30)**Funding Opportunity Number:** RFA-DK-13-007**Application Receipt Date(s):** June 18, 2014

Description: This Funding Opportunity Announcement (FOA) invites applications for Cystic Fibrosis (CF) Research and Translation Core Centers. CF Research and Translation Core Centers are designed to support both basic and clinical research on Cystic Fibrosis. CF Research and Translation Core Centers support three primary research-related activities: Research Core services; a Pilot and Feasibility program; and an Administrative Core with an enrichment program. Core Centers provide shared resources to support research to develop and test new therapies for CF and to foster collaborations among institutions with a strong existing research base in CF. The NIDDK currently supports five CF Research and Translation Centers located at institutions with documented programs of research excellence in basic and clinical CF Research. Information about the currently funded CF Research and Translation Centers may be found at <http://www3.niddk.nih.gov/centers/all.shtml> <http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-13-007.html>

The Use of Polyethylene Glycol in the Pediatric Population (R01)**Funding Opportunity Number:** RFA-FD-14-002**Application Receipt Date(s):** February 28, 2014

Description: The purpose of the proposed study is to better understand the extent of pediatric absorption of low molecular weight species that may be found in PEG 3350 products (e.g., ethylene and diethylene glycol). PEG 3350 products are used in the treatment of constipation. These low molecular weight species may be absorbed by children taking PEG 3350 products, potentially leading to adverse events. This is an important first step needed to begin to understand if PEG 3350 use contributes to adverse events in children due to the absorption of these species. <http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-002.html>

Mentored Career Development Award in Biomedical Big Data Science for Clinicians and Doctorally Prepared Scientists (K01)**Funding Opportunity Number:** RFA-HG-14-007**Application Receipt Date(s):** April 1, 2014; April 1, 2015

Description: In response to the spectacular opportunities and immense challenges presented by the dawning era of 'Big Data' in biomedical research, the NIH has developed the Big Data to Knowledge (BD2K) initiative. The mission of BD2K is to enable the biomedical research community to use the various types of Big Data for research. To address the growing need for skilled researchers to fully utilize biomedical Big Data, a series of BD2K FOAs have been designed 1) to develop a sufficient cadre of researchers skilled in the science of Big Data and 2) to elevate general competencies in data usage and analysis across the biomedical research workforce. This BD2K FOA solicits applications for a mentored career development award in the area of Big Data Science. The aim of the initiative is to support additional mentored training of scientists who will gain the knowledge and skills necessary to be independent researchers as well as to work in a team environment to develop new Big Data technologies, methods, and tools applicable to basic and clinical research. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-007.html>

Courses for Skills Development in Biomedical Big Data Science (R25)**Funding Opportunity Number:** RFA-HG-14-008**Application Receipt Date(s):** April 1, 2014; April 1, 2015; and April 1, 2016

Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The goal of this Big Data to Knowledge (BD2K) Program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs in Big Data Science. To this end, this FOA encourages the development of creative educational activities with a primary focus on Courses for Skills Development. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-008.html>

Open Educational Resources for Biomedical Big Data (R25)**Funding Opportunity Number:** RFA-HG-14-009**Application Receipt Date(s):** April 1, 2014; April 1, 2015; and April 1, 2016

Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The goal of this funding opportunity announcement (FOA) is to complement and/or enhance

the training of a workforce to meet the nation's biomedical, behavioral, and clinical research needs in utilizing 'Big Data.' To this end, this funding opportunity announcement encourages the development of creative educational activities with a primary focus on Curriculum or Methods Development. In particular, this Big Data to Knowledge (BD2K) FOA encourages R25 applications proposing the development of open educational resources (OER) for use by large numbers of learners at all career levels that enhance the ability of the workforce to use and analyze biomedical Big Data. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-009.html>

NIH Directors Biomedical Research Workforce Innovation Award: Broadening Experiences in Scientific Training (BEST) (DP7)

Funding Opportunity Number: RFA-RM-13-019

Application Receipt Date(s): March 31, 2014

Description: The purpose of this FOA is to seek out, identify and support bold and innovative approaches designed to broaden graduate and postdoctoral training, such that training programs reflect the range of career options that Ph.D. graduate students and postdoctoral (regardless of funding source) pursue and that are required for a robust biomedical, behavioral, social and clinical research enterprise. Collaborations with non-academic partners are encouraged to ensure that experts from a broad spectrum of research-intensive and research-related careers contribute to coursework, rotations, internships or other forms of exposure. This program will establish a new paradigm for graduate and postdoctoral training; awardee institutions will work together to define needs and share best practices. <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-13-019.html>

Neurobiology of Migraine (R01)

Funding Opportunity Number: PA-14-068

Application Receipt/Submission Date(s): Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) is issued by the National Institute of Neurological Disorders and Stroke (NINDS) in conjunction with the NIH Pain Consortium. It solicits R01 grant applications from institutions/organizations to perform innovative research that will elucidate the mechanisms underlying migraine, expand our current knowledge of the role of genetic, physiological, biopsychosocial, and environmental influences in migraine susceptibility and progression, and explore new therapeutic targets and therapies for acute migraine management and longer term prevention. <http://grants.nih.gov/grants/guide/pa-files/PA-14-068.html>

Neurobiology of Migraine (R21)

Funding Opportunity Number: PA-14-069

Application Receipt/Submission Date(s): Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) is issued by the National Institute of Neurological Disorders and Stroke (NINDS) in conjunction with the NIH Pain Consortium. It solicits R21 grant applications from institutions/organizations to perform innovative research that will elucidate the mechanisms underlying migraine, expand our current knowledge of the role of genetic, physiological, biopsychosocial, and environmental influences in migraine susceptibility and progression, and explore new therapeutic targets and therapies for acute migraine management and longer term prevention. <http://grants.nih.gov/grants/guide/pa-files/PA-14-069.html>

Shared Instrumentation Grant Program (S10)

Funding Opportunity Number: PAR-14-073

Application Receipt/Submission Date(s): March 21, 2014

Description: The ORIP 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 instrumentation or an integrated system that costs at least \$100,000. The maximum award is \$600,000. Types of instruments supported include, but are not limited to, confocal and electron microscopes, biomedical imagers, mass spectrometers, DNA sequencers, biosensors, cell-sorters, X-ray diffraction systems, and nuclear magnetic resonance (NMR) spectrometers among others. <http://grants.nih.gov/grants/guide/pa-files/PA-14-073.html>

USAID

Saving Lives at Birth: A Grand Challenge for Development (Round 4)

Funding Opportunity Number: RFA-OAA-14-000071

Application Deadline: March 27, 2014

Description: United States Agency for International Development (USAID), the Government of Norway, the Bill

& Melinda Gates Foundation, Grand Challenges Canada, and UK's Department of International Development (DFID) have joined together to launch the fourth round of Saving Lives at Birth: A Grand Challenge for Development. Together, we call for groundbreaking prevention and treatment approaches for pregnant women and newborns in poor, hard-to-reach communities around the time of childbirth.

<http://www.grants.gov/web/grants/search-grants.html?keywords=RFA-OAA-14-000071>

Operationalizing a Neighborhood Approach to Reduce Urban Disaster Risk in Latin America and the Caribbean (LAC)

Funding Opportunity Number: APS-OFDA-14-000003

Pre-Application Deadline: March 5, 2014 (concept paper)

Application Deadline: May 2, 2014 (If invited)

Description: The U.S. Agency for International Development (USAID), Bureau for Democracy, Conflict, and Humanitarian Assistance (DCHA), Office of U.S. Foreign Disaster Assistance (OFDA) is seeking Concept Papers to support or stimulate the activities described in this Annual Program Statement (APS). The objective of this APS is to support innovative and/or proven ways to reduce the risk of disasters to populations living in hazard-prone, marginalized and vulnerable urban neighborhoods, through applying the Neighborhood Approach in selected geographic locations Latin America and the Caribbean (LAC). For detailed information on the APS requirements, please refer to the full announcement of APS-OFDA-14-000003.

<http://www.grants.gov/web/grants/search-grants.html?keywords=APS-OFDA-14-000003>

Beyond HAART: Innovative Approaches to Cure HIV-1 (U19)

Funding Opportunity Number: RFA-AI-14-004

Application Receipt Date(s): July 28, 2014

Description: This Funding Opportunity Announcement (FOA) invites applications from institutions/organizations to participate in the "Beyond HAART: Innovative Approaches to Cure HIV-1" initiative. The purpose of this FOA is to encourage investigators to work together on innovative approaches to eliminate HIV-1 and leverage the expertise and resources of the participating Institutes. Research topics of interest are as follows: cell therapies, including those based on hematopoietic stem cells; novel gene therapy approaches; and the development and delivery of non-traditional antiviral strategies (e.g. miRNAs, siRNAs, gene-editing enzymes). Applications are expected to include basic science/preclinical research as well as translational activities such as test-of-concept studies in animal models or humans. Applications must be designed as collaborative efforts between academia and the private sector. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-004.html>

Research Centers for Pharmacogenomics in Precision Medicine (P50)

Funding Opportunity Number: PAR-14-075

Application Receipt/Submission Date(s): September 25, 2014; September 25, 2015; September 25, 2016

Description: The purpose of this funding opportunity announcement (FOA) is to stimulate the formation of centers that will conduct cutting-edge research studies designed to push the boundaries for understanding and predicting therapeutic drug responses. The FOA describes research centers that examine drug actions within the context of precision medicine, or data-driven prescribing. This program will support a limited number of large-scale multidisciplinary centers, each of which will serve as a national and international focal point. A center should be built around a tightly-focused theme and should represent innovative investigations at the forefront of understanding drug actions. The experimental approaches should go beyond pharmacogenomics, to include for example, examination of gene expression and regulation patterns, assessment of post-genomic modifications, other small-molecule "signatures" that contribute to the prediction of drug actions both therapeutic and adverse, and/or systems and pathway analysis. Other somatic mutations or genomes present, such as those of tumors, infectious agents, or resident microbes, should also be evaluated. Each center should have a clinical interaction, either as a patient-oriented core or through an established relationship with clinical studies or trials conducted elsewhere. There should be bi-directional exchange between the research and clinical components, with a mix of experimental methods yielding complementary datasets that collectively enhance the foundational understanding and prediction of drug actions. But while the research results should contribute to ultimately guiding the future of patient care, the center's current emphasis should primarily be on making fundamental new discoveries at the forefront for the field. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-075.html>

Other

Florida Department of Transportation Customer Satisfaction Surveys of Florida Residents and Government Officials

Funding Opportunity Number: N/A

Application Deadline: **February 6, 2014**

Description: Please contact the FIU Division of Research for RFP

Gordon and Betty Moore Foundation- Data-Driven Discovery Investigator Competition

Funding Opportunity Number: N/A

Pre-Application Deadline: **February 24, 2014 – 5PM Pacific Time**

Application Deadline: TBD – around mid-May 2014 if full application is invited.

Description: The Gordon and Betty Moore Foundation is inviting pre-applications for data-driven research projects through its Data-Driven Discovery Initiative, which seeks to advance the practice of data-intensive science and take advantage of the increasing volume, velocity, and variety of scientific data available to spur new discoveries. The goal of the program is to support research by individuals who exemplify multidisciplinary, data-driven science. These innovators are striking out in new directions and are willing to take risks that have the potential to deliver a huge payoff with respect to some aspect of data-intensive science. Successful applicants must make a strong case for developments in the natural sciences (biology, physics, astronomy, etc.) or science-enabling methodologies (statistics, machine learning, scalable algorithms, etc.); applicants that credibly combine the two are especially encouraged. (Please note: the program does not fund disease research.) The foundation expects to award about fifteen five-year grants of up to \$1.5 million each. For complete program guidelines, an FAQ, and pre-application instructions, see the Moore Foundation Web site.

<http://www.moore.org/programs/science/data-driven-discovery/ddd-investigators>

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