

FIU technologies contribute to successful Startup Quest™

By Karen Cochrane

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Business plans written for two FIU technologies took top honors recently at Startup Quest™, an innovative competition pairing unemployed or underemployed workers with mentors who see promise in the cutting-edge technologies of Florida's public universities.

Healical, a company based on College of Engineering & Computing researchers' communications virtual machine technology, and InfinitD, a company based on Sakhrat Khizroev's 3-D magnetic memory technology, won first and second place, respectively, in the competition's technology track. The College of Engineering & Computing researchers who invented the technology that Healical is based on are Yi Deng, Peter Clarke, Steve Luis, Raju Rangaswami, Chi Zhang, Masoud Sadjadi and Vagelis Hristidis.

Startup Quest™ is a three-month entrepreneurship program that solicits volunteer mentors who are experienced in founding or growing biotech or technology companies. In turn, the mentors select a technology from a Florida public university or NASA that they believe is viable commercially. They pitch their idea to highly educated Workforce One participants (78 percent of the participants have a master's degree and 6 percent a doctorate), create a team and guide its members through the harrowing process of researching and creating a business plan to take the innovation to market.

"By going through this three-month process, the participants gain an enormous number of skill sets. And the universities that contribute these technologies get a very good, in-depth commercial assessment of their intellectual property," said Cris Johnsrud, a member of the grant management team and one of the architects of the program. "It's about creating synergies and instilling a culture of entrepreneurship in our communities."

"To have a successful spin-out company, to commercialize new technologies, it takes capital, of course, and raw technologies from our universities. But the critical element is management," said Rhys Williams, president of Tequesta BioVen-



tures and president and co-founder of New World Angels and one of the judges in the biotech track. "This was a really neat opportunity and platform for universities to access management to bring a new technology to market and attempt commercialization or to repurpose something that might have been sitting around on their shelves for awhile."

This year, 150 participants were chosen from among nearly 500 applicants to form 17 teams for the Broward competition. Four of the technologies chosen by mentors were from FIU: In the technology track, the College of Engineering & Computing's faculty (listed in the second paragraph of this article) and Khizroev's technologies were selected; in the biotechnology track, Miro Gantar's algae library and Madhavan Nair's nano-silicone particles for breast implants and other devices were chosen.

"This really shows the breadth of our reach in the community," said FIU's Technology Management Director Pedro Hernández.

The judges were investors, consultants and entrepreneurs. They asked tough questions of the teams. Is a patent even needed to pursue this opportunity? Why are you not showing a profit until year three? One judge told a technology team, "It seems like you guys found a cool technology so you decided to create a company, but I get the sense you don't know what to do with it."

A number of teams, including Healical, said they intend to move forward with their plans.



Upcoming Events

December 2013

- **December 6** at 12 noon in AHC1 #110 “The Changing Landscape of Cannabis Use and Its Impact on Neurocognitive Functioning” by [Raúl González](#)—part of CCF’s Brown Bag Series.
- **December 10** at 3:30 pm in the MARC Pavilion “Grant writing: Developing a Testable Hypotheses” by [O. Dale Williams](#), FIU Professor and Chair of the Biostatistics Department. **Please RSVP to mentor@fiu.edu.**
- **December 12** from 12 to 1:30 pm in AHC2 #160, “DNA Repair and Genome Stability” by [Yuan Liu](#), Assistant Professor, Chemistry & Biochemistry, part of the Biomolecular Sciences Institute Research Presentations. **Please RSVP to sish@fiu.edu.**
- **December 13** from 2 to 3 pm in AHC2 #170, “The importance of translating laboratory research into clinical advances: Lessons learned from studying multidrug resistance in cancer” by [Michael Gottesman](#), M.D., Deputy Director of NIH and Chief of the Laboratory of Cell Biology, NCI.

January 2014

- **January 14** from 12 to 1:30 pm at the Faculty Club, “Faculty Mentor Lunch for CAS-CEC-RSCPHSW for mentor/mentee pairs.”
- **January 23 & 24** from 8 am to 5 pm at the MARC Pavilion, “2014 Workshop on Origami Design for Integration of Self-assembling Systems for Engineering Innovation.”
- **January 29 & 30** from 8:30 am to 5 pm at the MARC Pavilion, Southern HIV and Alcohol Research Consortium (SHARC) Scientific Advisory Board Meeting and Research Conference. **Please register at <http://sharc-research.org/conference/electronic-registration-conference-2014/>**

Awards Received—October 2013

FIU researchers were awarded \$6,453,323 in October 2013. Listed below is a summary of awards received.

PI: Malek Adjouadi

COMPUTER INFO SCIENCES

Award Action Type: Initial

AWARDING SPONSOR: Transmed Systems Inc

TITLE: SBIR/CREST Phase Iia: Efficient Comparative Effective Research Tools In Real Time Environment

AWARD: \$ 70,000

PI: Alexander Agoulnik

COM HUMAN AND MOL GENETICS

Award Action Type: Initial

AWARDING SPONSOR: National Institutes of Health

TITLE: Small molecule antagonists of relaxin receptor

AWARD: \$ 297,403

PI: Irina Agoulnik

COM CELL BIOLOGY AND PHARM

Award Action Type: Initial

AWARDING SPONSOR: FIU Division of Research

TITLE: DORBRDG -Role of NCoR in Angiandrogen Resistance...

AWARD: \$ 50,581

PI: Hesham A Ali

CIVIL AND ENVIRON ENGINEERING

Award Action Type: Initial

AWARDING SPONSOR: Florida Department of Transportation

TITLE: Investigation of Open Graded Friction Course Raveling in SE Florida

AWARD: \$ 62,650

PI: William T Anderson

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Initial

For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu

AWARDING SPONSOR: U.S. Science Support Program Ocean Leade
TITLE: IODP Expedition 346 Asian Monsoon **AWARD:** \$ 32,103

PI: Patricia Barbetta
COE TEACHING AND LEARNING
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Education
TITLE: ESE Endorsement Tuition Support Project **AWARD:** \$ 325,000

PI: Shekhar Bhansali
ELEC AND COMPUTER ENG
Award Action Type: Increase
AWARDING SPONSOR: Florida Agricultural and Mechanical Univ
TITLE: Bridge to doctorate Cohort at FIU **AWARD:** \$ 6,911

PI: Shekhar Bhansali
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: North Carolina State University
TITLE: Advanced Self-Powered Systems of Integrated Sensor Technologies (ASSIST) **AWARD:** \$ 170,394

PI: Eric Bishop-Von Wettberg
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of California Davis
TITLE: Deducing the genomic footprint and functional impact of chickpea domestication on nitrogen fixation **AWARD:** \$ 185,413

PI: Henry Briceno
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: Environmental Protection Agency
TITLE: Water Quality Monitoring Project for the Florida Keys National Marine Sanctuary (FKNMS) **AWARD:** \$ 650,000

PI: Deron Burkepile
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of Florida
TITLE: The effect of no-take marine protected areas on the trophic ecology of coral reef fish **AWARD:** \$ 2,000

PI: Jason R Chandler
ARCHITECTURE
Award Action Type: Increase
AWARDING SPONSOR: FIU Foundation
TITLE: School of Architecture (SoA) Paul Cejas Endowed Chair and Eminent Scholars (Foundation 1700090) **AWARD:** \$ 35,371

PI: Jason R Chandler
ARCHITECTURE
Award Action Type: Increase
AWARDING SPONSOR: FIU Foundation
TITLE: School of Architecture General Purpose Paul Cejas (FIU Foundation 1700080) **AWARD:** \$ 14,478

PI: Mido Chang
COE LEADERSHIP AND PROF STU
Award Action Type: Increase
AWARDING SPONSOR: Virginia Polytechnic Institute & State U

TITLE: Subcontract with Virginia Tech - NSF Award Gateways to Algebraic Motivation, Engagement and Success (GAMES) **AWARD:** \$ 18,228

PI: Hai Deng
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: Defense Engineering Corporation
TITLE: Innovative Concepts and Approaches with Multiple-Input Multiple Output (MIMO) Radar **AWARD:** \$ 55,385

PI: Ronald Philip Fisher
PSYCHOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of Texas at El Paso
TITLE: High Value Detainee Interrogation Group (HIG): Intelligence Interviewing and Interrogation **AWARD:** \$ 192,476

PI: Brian Fonseca
ARC APPLIED RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: CACI International Inc
TITLE: FIU SOUTHCOM Academic Roundtable Series **AWARD:** \$ 75,000

PI: Orlando J Garcia
MUSIC
Award Action Type: Initial
AWARDING SPONSOR: FIU Foundation
TITLE: Music | Wertheim Performing Arts Scholarship Endowment **AWARD:** \$ 34,303

PI: Sandra A Gracia Jones
NURSING UNDERGRADUATE
Award Action Type: Initial
AWARDING SPONSOR: Substance Abuse & Mental Health Services
TITLE: FIU Nursing/South Beach AIDS Project HIV/Substance Abuse Prevention Partnership **AWARD:** \$ 299,999

PI: Lei Guo
PHYSICS
Award Action Type: Increase
AWARDING SPONSOR: Jefferson Lab
TITLE: Hadron Spectroscopy at Jefferson Lab **AWARD:** \$ 11,939

PI: Anibal Gutierrez Jr.
PSYCHOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of Miami
TITLE: Advancing Social-Communication and Play (ASAP): An Intervention Program for Preschoolers with Autism **AWARD:** \$ 23,329

PI: Mohammed A Hadi
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Transportation
TITLE: Decision Support Systems for Transportation System Management and Operations (TSM&O) **AWARD:** \$ 210,290

PI: Maria Ilcheva
METROPOLITAN CENTER
Award Action Type: Initial

AWARDING SPONSOR: Miami-Dade County Information Technology	
TITLE: Miami-Dade County Information Technology Department Employee Survey	AWARD: \$ 13,420
PI: Shuliang Jiao	
BIOMEDICAL ENGINEERING	
Award Action Type: Increase	
AWARDING SPONSOR: National Institutes of Health	
TITLE: Multimodal Retinal Functional Imaging for Diabetic Retinopathy	AWARD: \$ 616,643
PI: Ranu Jung	
BIOMEDICAL ENGINEERING	
Award Action Type: Initial	
AWARDING SPONSOR: National Institutes of Health	
TITLE: CRCNS: Computation-Enabled Adaptive Ventilatory Control System	AWARD: \$ 204,324
PI: Ranu Jung	
BIOMEDICAL ENGINEERING	
Award Action Type: Increase	
AWARDING SPONSOR: National Institutes of Health	
TITLE: Participant Supports Costs: CRCNS: Computation-Enabled Adaptive Ventilatory Control System	AWARD: \$ 20,742
PI: John Kominoski	
SOUTHEAST ENV RESEARCH CTR	
Award Action Type: Continuation	
AWARDING SPONSOR: University of Georgia	
TITLE: Collaborative Research: Scale, Consumers and Lotic Ecosystem Rates (SCALER)	AWARD: \$ 9,941
PI: Laird H Kramer	
PHYSICS	
Award Action Type: Increase	
AWARDING SPONSOR: Howard Hughes Medical Institute	
TITLE: FIU Science Collaborative Project	AWARD: \$ 250,000
PI: Cathy Leff	
THE WOLFSONIAN	
Award Action Type: Initial	
AWARDING SPONSOR: FIU Foundation	
TITLE: Knight Muse of Ideas	AWARD: \$ 500,000
PI: Cathy Leff	
THE WOLFSONIAN	
Award Action Type: Initial	
AWARDING SPONSOR: Florida Division of Cultural Affairs	
TITLE: General Program Support 2013-2014	AWARD: \$ 36,171
PI: Fenfei Leng	
DOR - DIVISION OF RESEARCH	
Award Action Type: Initial	
AWARDING SPONSOR: FIU Division of Research	
TITLE: DOR Bridge Funding	AWARD: \$ 33,269
PI: Jason Xiaowen Liu	
COMPUTER INFO SCIENCES	
Award Action Type: Initial	

AWARDING SPONSOR: BBN Technologies Corp.
TITLE: PrimoGENI Constellation for Distributed At-Scale Hybrid Network Experimentation **AWARD:** \$ 130,805

PI: Norman D Munroe
ENGINEERING DEANS OFFICE
Award Action Type: Initial
AWARDING SPONSOR: University of Central Florida
TITLE: 2013-2014 Hybrid Rocket **AWARD:** \$ 1,059

PI: Norman D Munroe
COMPUTER INFO SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: National Action Council for Minorities
TITLE: NACME Initiative at Florida International University **AWARD:** \$ 18,000

PI: William E Pelham Jr
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: University of Pittsburgh
TITLE: The Development of Alcohol Use and Abuse in ADHD Adolescents **AWARD:** \$ 167,079

PI: Nancy Ponn
CHILDRENS CREATIVE LEARN CTR
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Department of Education
TITLE: Child Care Access Means Parents in School (CCAMPIS) Program **AWARD:** \$ 293,988

PI: Barry Philip Rosen
COM CELL BIOLOGY AND PHARM
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Health
TITLE: Development of high-throughput assays to identify drugs to prevent arsenic carcinogenesis **AWARD:** \$ 100,000

PI: Michael S Ross
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Army
TITLE: Landscape Pattern-Ridge, Slough & Tree Island Mosaics **AWARD:** \$ 91,691

PI: Leonard Scinto
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Increase
AWARDING SPONSOR: National Park Service
TITLE: Provide office services and operational technical support to the South Florida Ecosystem Restoration Task Force, Office of the Executive Director **AWARD:** \$ 447,294

PI: Marilyn Skow
THEATRE
Award Action Type: Initial
AWARDING SPONSOR: FIU Foundation
TITLE: Theater | Wertheim Performing Arts Scholarship Endowment **AWARD:** \$ 14,701

PI: Zhonghong Tang
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial

AWARDING SPONSOR: Civilian Research & Development Foundation

TITLE: Iraq Science Fellowship Program

AWARD: \$ 5,000

PI: Joel Trexler

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Continuation

AWARDING SPONSOR: National Park Service

TITLE: Freshwater fish monitoring in the Water Conservation Area 3 and Everglades National Park

AWARD: \$ 207,211

PI: Tiffany Troxler

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Continuation

AWARDING SPONSOR: South Florida Water Management District

TITLE: Surface Water - Groundwater Interaction in Everglades Tree Islands: Hydrological Restoration of Degraded Tree Islands

AWARD: \$ 87,350

PI: Tiffany Troxler

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Initial

AWARDING SPONSOR: South Florida Water Management District

TITLE: Ecological Monitoring of Southern Everglades Wetlands, Mangrove Transition Zone and "White Zone" Interactions with Florida Bay

AWARD: \$ 48,677

PI: Eric Wagner

SCHOOL OF SOCIAL WORK

Award Action Type: Initial

AWARDING SPONSOR: University of California San Diego

TITLE: Facilitating Self-Change for Adolescent Alcohol Problems

AWARD: \$ 95,415

PI: Jeffrey D Wells

BIOLOGY

Award Action Type: Initial

AWARDING SPONSOR: Louisiana State University

TITLE: Statistical Methods for Combining Multivariate and Categorical Data in Postmortem Interval Estimation

AWARD: \$ 103,837

PI: Yi Xiao

CHEMISTRY

Award Action Type: Increase

AWARDING SPONSOR: National Institute of Justice

TITLE: Aptamer-Based, Exonuclease-Amplified, Paper Device for Point of Collection Screening of Cocaine and Methamphetamine in Oral Fluid

AWARD: \$ 133,452

Limited Submission Funding Opportunities

Below is a limited submission funding opportunity with an internal deadline for the month of December 2013.

Agency: National Science Foundation
Program: Faculty Development in the Space Sciences
Institutional Submission Limits: One application per institution
Internal Proposal Deadline: December 27, 2013
Agency Deadline: January 27, 2014

Status: Open

Link: http://www.nsf.gov/publications/pub_summ.jsp?WT.z_pims_id=504953&ods_key=nsf14506

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

Vision Research Program Translational Research Award

Funding Opportunity Number: W81XWH-13-CRMRP-VRP-TRA

Application Deadline: February 6, 2014

Description: The VRP Translational Research Award (TRA) mechanism is being offered for the first time in FY13. This award supports translational research that will accelerate the movement of promising ideas in vision research into clinical applications. Observations that drive a research idea may be derived from a laboratory discovery, population-based studies, or a clinician's first-hand knowledge of patients and anecdotal data. While the ultimate goal of translational research is to move an observation forward into clinical application, Principal Investigators (PIs) should not view translational research as a one-way continuum from bench to bedside. The research plan must involve a reciprocal flow of ideas and information between basic and clinical science. The FY13 VRP TRA is intended to promote significant improvements over current approaches and supports research projects that are likely to have a major impact by applying research findings to patient care. This award mechanism encourages a team approach involving collaboration among clinicians, scientists, and/or engineers. To meet the intent of the FY13 VRP TRA mechanism, all applications must specifically address one or more of the FY13 VRP TRA Focus Areas listed below. Applications must include preliminary or published data relevant to one or more of the VRP TRA Focus Areas and to the proposed research. Applications proposing research outside of the Focus Areas listed below should not be submitted in response to this Program Announcement/Funding Opportunity.

- Mitigation and treatment of traumatic injuries, war-related injuries, and diseases to ocular structures and the visual system
- Mitigation and treatment of visual dysfunction associated with traumatic brain injury (TBI)
- Vision restoration following traumatic injury
- Vision rehabilitation strategies and quality of life measures

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

Clinical and Rehabilitative Medicine Research Program Regenerative Medicine Clinical Trial Award

Funding Opportunity Number: W81XWH-14-DMRDP-CRMRP--RMCTA

Application Deadline: February 11, 2014

Description: The FY14 DMRDP CRMRP Regenerative Medicine Clinical Trial Award (RMCTA) is intended to support Phase I or II clinical trials focused on extremity regeneration, craniomaxillofacial regeneration, vascularized composite allografts, and/or genitourinary/lower abdomen reconstruction. Funding from this award mechanism cannot be used for preclinical research studies. All clinical trials must be responsive to the health care needs of military service members and veterans, and all applications must specifically and clearly address the military relevance of the proposed research; however, the use of military populations in the proposed clinical trial(s) is not a requirement. Applications submitted to the FY14 DMRDP CRMRP RMCTA must specifically address one or more of the focus areas listed below.

- Extremity Regeneration
- Craniomaxillofacial Regeneration
- Vascularized Composite Allotransplantation (VCA)
- Genitourinary/Lower Abdomen Reconstruction

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

DoD FY13 CRMRP VRP Hypothesis Development Award

Funding Opportunity Number: W81XWH-13-CRMRP-VRP-HDA

Application Deadline: February 6, 2014

Description: The FY13 VRP Hypothesis Development Award (HDA) mechanism supports conceptually innovative, high-risk/high-reward research that could ultimately lead to critical discoveries or major advancements that will drive the field of vision research forward. Research projects should include a testable hypothesis based on a strong scientific rationale. This award is not intended to support the continuation of existing studies or the next logical extension and/or incremental step. The HDA is designed to support innovative ideas with the potential to yield impactful data and new avenues of investigation. Important aspects of the HDA are as follows:

- **Impact:** The proposed research is expected to make an important and original contribution to advancing the understanding of visual dysfunction and lead ultimately to improved outcomes for patients.
- **Innovation:** Research deemed innovative may represent a new paradigm, challenge existing paradigms, look at existing problems from new perspectives, or exhibit other uniquely creative qualities. Research may be innovative in study concept, research methods or technology, or adaptations of existing methods or technologies. Research that represents an incremental advance on previously published work is not considered innovative. The presentation of preliminary or published data relevant to one or more of the VRP HDA Focus Areas is encouraged, but NOT REQUIRED. It is the responsibility of the Principal Investigator (PI) to clearly and explicitly articulate how the proposed research project is innovative. To meet the intent of the FY13 VRP HDA mechanism, all applications must specifically address one or more of the FY13 VRP HDA Focus Areas listed below. Applications proposing research outside of the Focus Areas listed below should not be submitted in response to this Program Announcement/Funding Opportunity.
- **Mitigation and treatment of traumatic injuries, war-related injuries, and diseases to ocular structures and the visual system**
- **Mitigation and treatment of visual dysfunction associated with traumatic brain injury (TBI)**
- **Vision restoration following traumatic injury**
- **Modeling and simulation of traumatic ocular injury**

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

Fiscal Year (FY) 2014 Department of Defense Multidisciplinary Research Program of the University Research Initiative (MURI) - Air Force Submissions

Funding Opportunity Number: ONRBAA13-022

Application Deadline: December 16, 2013

Description: The MURI program supports basic research in science and engineering at U.S. institutions of higher education 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.” (DoD 7000.14.R, vol. 2B, chap.5). DoD’s basic research program invests broadly in many specific fields to ensure that it has early cognizance of new scientific knowledge. The FULL ANNOUNCEMENT is available on the Grants.gov website by scrolling to the top of the synopsis page and clicking on the "FULL ANNOUNCEMENT" box surrounded by the dotted line at the top of the page.

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

Special Program Announcement for 2014 Office of Naval Research Opportunity: Basic Research Challenge on Majorana Fermions

Funding Opportunity Number: 14-SN-0005

Application Deadline: December 6, 2013

Description: This announcement describes a research thrust, entitled “Basic Research Challenge on Majorana Fermions” to be launched under the ONRBAA14-001, Long Range Broad Agency Announcement for Navy and Marine Corps Science and Technology which can be found at <http://www.onr.navy.mil/Contracts-Grants/Funding-Opportunities/Broad-Agency-Announcements.aspx>. The research opportunity described in this announcement specifically falls under numbered paragraph 2 of the “Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (Code 31)” sub-section. The submission of proposals, their evaluation and the placement of research grants will be carried out as described in that Broad Agency Announcement. The purpose of this announcement is (1) to focus attention of the scientific community on the area to be studied, (2) to open dialogue amongst those interested in this area, and (3) to provide the planned timetable for the submission of proposals. The proposed topic will detect, characterize and

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manipulate Majorana fermions in solid state systems. The program will pursue a thorough understanding and experimental validation of various theoretical predictions of Majorana fermion modes that are realizable in solid state systems, and assess their application potential in areas such as quantum information technology.

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

Cyber-enabled Manufacturing Systems for Direct Digital Manufacturing (CeMS-DDM)

Funding Opportunity Number: ONRBAA14-004

Application Deadline: February 13, 2014

Description: The Office of Naval Research (ONR) is interested in receiving proposals for Cyber-enabled Manufacturing Systems for Direct Digital Manufacturing (CeMS-DDM). The objective of this research opportunity is to develop the fundamental principles for CeMS-DDM with the goal of closely coupling computation and manufacturing.

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

Young Faculty Award (YFA)

Funding Opportunity Number: DARPA-RA-14-07

Application Deadline: January 7, 2014

Description: This RA solicits ground-breaking single-investigator proposals from junior faculty for research and development in the areas of Physical Sciences, Engineering, Mathematics, Medicine, Biology, Information and Social Sciences of interest to DARPA's Defense Sciences Office (DSO), and Microsystems Technology Office (MTO). See attached DARPA-RA-14-07

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

Department of Education

OSERS: NIDRR: Disability and Rehabilitation Research Projects Centers Program: Minority-Serving Institution Field Initiated Projects Program

Funding Opportunity Number: ED-GRANTS-111913-001 (Research); ED-GRANTS-111913-002 (Development)

CFDA Number(s): 84.133G

Deadline for Transmittal of Applications: January 21, 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 (Act). NIDRR makes two types of awards under the FI Projects program:

84.133G-4 Research: 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 or full scientific knowledge, or (2) better understanding of the subject, problem studied, or body of knowledge.

84.133G-5 Development: 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 beneficial to the target population, including design and development of prototypes and processes. "Target population" means the group of individuals, organizations, or other entities expected to be affected by the project. More than one group may be involved since a project may affect those who receive services, provide services, or administer services.

A pre-application meeting will be held between 1:00 p.m. and 3:00 p.m. on December 12, 2013 by teleconference.

Interested parties are invited to participate in the pre-application meeting to discuss the funding priority and to receive information and technical assistance. **You must contact Marlene Spencer at marlene.spencer@ed.gov by December 11, 2013 in order to participate in this meeting.** NIDRR staff also will be available to provide information and technical assistance via individual phone consultations from 3:30 p.m. to 4:30 p.m. on December 12, 2013. Requests for individual consultations during this one hour window must be made in advance to Marlene Spencer. For more information, visit www.grants.gov and search by opportunity number.

The Office of Special Education and Rehabilitative Services (OSERS): Rehabilitation Training: Rehabilitation Long-Term Training Program: Vocational Rehabilitation Counseling

Funding Opportunity Number: ED-GRANTS-110513-001

CFDA Number(s): 84.129B

Deadline for Transmittal of Applications: February 3, 2014

Description: The purpose of the Rehabilitation Long-Term Training program is to support projects that provide training, traineeships, and related activities, to assist in increasing the numbers of qualified personnel trained in providing vocational, medical, social, and psychological rehabilitation services, and other services provided to individuals with disabilities under the Rehabilitation Act of 1973, as amended. Projects funded under the present competition must provide training leading to a master's degree in rehabilitation counseling. The Rehabilitation Services Administration (RSA) will conduct three **Pre-Application Webinars:**

- ~~• Wednesday, November 20, 2013 at 2:00 PM Eastern Time~~
- **Wednesday, December 4, 2013 at 2:00 PM Eastern Time**
- Wednesday, January 8, 2014 at 2:00 PM Eastern Time

All Webinars will be recorded and archived on the National Clearinghouse for Rehabilitation Training Materials (NCRTM: <https://ncrtm.org/>) Web site within 2 business days. All Webinars will begin at 2:00 PM Eastern Time and will last approximately 1.5 hours in length. 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>

Community Grants Program

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops: **December 19, 2013, 2 PM**

Application Deadline: January 9, 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>

Tourist Development Council Grant Program

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops: **December 12, 2013, 2 PM**

Application Deadline: January 16, 2014, 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>

National Aeronautics & Space Administration

Lunar Advanced Science and Exploration Research

Funding Opportunity Number: NNH13ZDA001N-LASER

Pre-Application Deadline: December 27, 2013

Application Deadline: February 28, 2014

Description: The Lunar Advanced Science and Exploration Research (LASER) program funds basic and applied lunar science. The goal of the program is to support and enhance lunar basic science and lunar exploration science.

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={56CE8644-9A9C-CF9D-FA7D-CF8F0772AEC8}&path=open>

Atmospheric Composition Campaign Data Analysis and Modeling

Funding Opportunity Number: NNH13ZDA001N-ACCDAM:

Application Deadline: February 14, 2014

Description: Research within the Atmospheric Composition Focus Area addresses the following science questions:

- How is atmospheric composition changing?
- What trends in atmospheric composition and solar radiation are driving global climate?
- How does atmospheric composition respond to and affect global environmental change?
- What are the effects of global atmospheric composition and climate changes on regional air quality?
- How will future changes in atmospheric composition affect ozone, climate, and global air quality?

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={D833203F-7942-512D-F3BE-D1A943114CBE}&path=open>

National Endowment for the Arts

United States Mint Call for Artists: Seeking Artists to Design United States Coins and Medals

Funding Opportunity Number: 2014NEA03MINT

Application Deadline: January 10, 2014

Description: The United States Mint is seeking artists interested in taking coin and medal design in new directions and trying new approaches as part of our endeavor to ensure that the designs on United States coins and medals are of the highest quality to best represent our country for years to come. The United States Mint will award contracts to up to 20 artists to participate in the United States Mint Artistic Infusion Program (AIP) and submit designs for selected coin and medal programs. Depending on the number of active years in the AIP, artists receive between \$2000 and \$3000 for each design submission and an additional \$5000 if their design is selected and used for a coin or medal design. All selected designs are sculpted by United States Mint Sculptor-Engravers, who also prepare designs for coin and medal programs. Artists of selected designs are named as designer in historical documents, Certificates of Authenticity and promotional materials. In most cases, the artist's initials appear on the final coins or medals (along with the initials of the United States Mint Sculptor-Engraver who sculpted the selected design). <http://arts.gov/grants-individuals/united-states-mint-call-for-artists>

National Endowment for the Humanities

Media Projects

Funding Opportunity Number: 20140108-TD

Application Deadline: January 8, 2014

Description: Media Projects grants support the following formats: interactive digital media; film and television projects; and radio projects. Interactive digital media may be websites, games, mobile applications, virtual environments, streaming video, podcasts, or other digital formats. Film and television projects may be single programs or a series addressing significant figures, events, or ideas and drawing their content from humanities scholarship.

<http://www.neh.gov/grants/mp>

Museums, Libraries, and Cultural Organizations

Funding Opportunity Number: 20140108-GE

Application Deadline: January 8, 2014

Description: Museums, Libraries, and Cultural Organizations grants provide support for museums, libraries, historic places, and other organizations that produce public programs in the humanities. Grants support the following formats: exhibitions at museums, libraries, and other venues; interpretations of historic places, sites, or regions; book/film discussion programs; living history presentations; other face-to-face programs at libraries, community centers, and other public venues; and interpretive websites and other digital formats. Types of Museums, Libraries, and Cultural Organizations awards Planning grants support the early stages of project development, including consultation with scholars, refinement of humanities themes, preliminary design, testing, and audience evaluation. Implementation grants support final scholarly research and consultation, design development, production, and installation of a project for presentation to the public. <http://www.neh.gov/grants/mlco>

National Institutes of Health

NCI Community Oncology Research Program (NCORP) Research Bases (UM1)

Funding Opportunity Number: [\(RFA-CA-13-012\)](#)

Application Receipt Date(s): January 8, 2014

Description: This Funding Opportunity Announcement (FOA) solicits applications from institutions/organizations to participate in the National Cancer Institute's Community Oncology Research Program (NCORP) as NCORP Research Bases. The goal of NCORP is to build upon the scope and activities of NCI's previously supported community networks, the Community Clinical Oncology Program (CCOP) which includes CCOP community sites (CCOPs), Minority-Based CCOP sites (MB-CCOPs), CCOP Research Bases, and NCI's Community Cancer Centers Program (NCCCP) by establishing a single community-based research program. NCORP will be an integrated national network to: 1) design and conduct cancer prevention, control, and screening/post-treatment surveillance clinical trials; 2) design and conduct cancer care delivery research; 3) enhance patient and provider access to treatment and imaging clinical trials conducted under the reorganized National Clinical Trials Network (NCTN); and 4) integrate disparity research questions into clinical trials and cancer care delivery research. NCORP will consist of three components, each with its own FOA: NCORP Research Bases (covered by this FOA); NCORP Community Sites; and NCORP Minority/Underserved Community Sites. The NCORP Research Bases will design and conduct cancer prevention, control, and screening/post-treatment surveillance clinical trials and studies on cancer care delivery as well as manage and analyze the data and report the research results.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-13-012.html>

NCI Community Oncology Research Program (NCORP) - Community Sites (UM1)

Funding Opportunity Number: [\(RFA-CA-13-013\)](#)

Application Receipt Date(s): January 8, 2014

Description: This Funding Opportunity Announcement (FOA) solicits applications from institutions/organizations to participate in NCI's Community Oncology Research Program (NCORP) as NCORP Community Sites. The goal of NCORP is to build upon the scope and activities of NCI's previously supported community networks, the Community Clinical Oncology Program (CCOP) which includes CCOP community sites (CCOPs), Minority-Based CCOP sites (MB-CCOPs), and CCOP Research Bases, and NCI's Community Cancer Centers' Program (NCCCP) by establishing a single community-based research program. NCORP will be an integrated national network to: 1) design and conduct cancer prevention, control, and screening clinical trials; 2) design and conduct cancer care delivery research; 3) enhance patient and provider access to treatment and imaging clinical trials conducted under the reorganized National Clinical Trials Network (NCTN); and 4) integrate disparity research questions into clinical trials and cancer care delivery research. NCORP will consist of three components each with its own FOA: NCORP Research Bases; NCORP Community Sites (covered by this FOA); and NCORP Minority/Underserved Community Sites. The NCORP Community Sites will accrue patients/participants to NCI-approved cancer clinical trials and cancer care delivery research designed by NCORP Research Bases and NCTN Groups. <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-13-013.html>

NCI Community Oncology Research Program (NCORP) - Minority/Underserved Community Sites (UM1)

Funding Opportunity Number: [\(RFA-CA-13-014\)](#)

Application Receipt Date(s): January 8, 2014

Description: This Funding Opportunity Announcement (FOA) solicits applications from institutions/organizations to participate in NCI's Community Oncology Research Program (NCORP) as NCORP Minority/Underserved Community Sites. The goal of NCORP is to build upon the scope and activities of NCI's previously supported community networks, the Community Clinical Oncology Program (CCOP) which includes CCOP community sites (CCOPs), Minority-Based CCOP sites (MB-CCOPs), and CCOP Research Bases, and NCI's Community Cancer Centers' Program (NCCCP) by establishing a single community-based research program. NCORP will be an integrated national network to: 1) design and

For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu

conduct cancer prevention, control and screening/post-treatment surveillance clinical trials; 2) design and conduct cancer care delivery research; 3) enhance patient and provider access to treatment and imaging clinical trials conducted under the reorganized National Clinical Trials Network (NCTN); and 4) integrate disparity research questions into clinical trials and cancer care delivery research. NCORP consists of three components each with its own FOA, which are: NCORP Research Bases; NCORP Community Sites; and NCORP Minority/Underserved Community Sites (covered by this FOA). The NCORP Minority/Underserved Community Sites will accrue patients/participants to NCI-approved cancer clinical trials and cancer care delivery research designed by NCORP Research Bases and NCTN Groups. The Minority/Underserved Community Sites provide access for practicing oncologists who serve large numbers of racial/ethnic minority and underserved patients to the NCI clinical trials network, as well as provide a unique opportunity to identify and address clinical trial and cancer care delivery research questions related to the more serious, prevalent cancers and cancer-related problems which persist in racial/ethnic minorities and other underserved populations.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-13-014.html>

Biomarkers for Diabetes Complications - Non-Invasive Measures in the Eye (DP3)

Funding Opportunity Number: [\(RFA-DK-13-027\)](#)

Application Receipt Date(s): April 7, 2014

Description: This FOA will support research on the development of biomarkers for the complications of type 1 diabetes that will use minimally or non-invasive measures of blood vessels and nerves in the eye. A critical obstacle for preventing and treating diabetes complications is the paucity of both biomarkers that can detect changes in blood vessels and nerves before clinical signs develop and surrogate end-points that can measure early responses to an intervention. Given the accessibility of the blood vessels and nerves in the eye for visualization, this FOA invites applications for research using the eye to visualize the development of diabetes complications in the eye and other tissues, such as the kidney, brain, heart and peripheral nerves. <http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-13-027.html>

Female Contraceptive Development Program (U01)

Funding Opportunity Number: [\(RFA-HD-14-024\)](#)

Application Receipt Date(s): March 31, 2014

Description: This Funding Opportunity Announcement (FOA) invites applications for the development of novel female contraceptives that are specifically targeted to the processes of follicular development, ovulation or fertilization. This program aims to support a wide range of research, both basic and applied, with the goal of developing clinically useful female contraceptive products. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-14-024.html>

Low-Cost, Pragmatic, Patient-Centered Randomized Controlled Intervention Trials (UH2/UH3)

Funding Opportunity Number: [\(RFA-HL-14-019\)](#)

Application Receipt Date(s): January 23, 2014

Description: This NIH Funding Opportunity Announcement (FOA) invites applications to plan and conduct low-cost, pragmatic randomized controlled trials (RCTs). Pragmatic RCTs seek to determine the effectiveness of an intervention in a real world setting. Trials proposed under this FOA should answer questions that are high impact to patients or health care providers, and must leverage existing clinical practice settings and/or existing electronic resources such as registries for the conduct of clinical trials. Trials must include features such as randomization at the point of patient care; data collection integrated into or obtained from routine clinical records or similar existing electronic resources; minimal eligibility criteria, and interventions delivered as part of routine clinical care. Funds from the NIH will be made available through the UH2/UH3 cooperative agreement award mechanism. The initial one-year UH2 phase will support the refinement of electronic and other existing resources, further development of study partnerships, and finalization of the trial protocol and manual. UH3 awards will be made after administrative review of UH2 awards that have met agreed upon milestones. The four-year UH3 phase will support the conduct of the planned clinical trial.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-14-019.html>

Evaluation and Administration Coordinating Center for the Low-Cost, Pragmatic, Patient-Centered Randomized Controlled Intervention Trials (R01)

Funding Opportunity Number: [\(RFA-HL-14-020\)](#)

Application Receipt Date(s): January 23, 2014

Description: This NIH Funding Opportunity Announcement (FOA) invites applications to support an Evaluation and Administration Coordinating Center. This unit will facilitate the coordination among and between the awardees of RFA-HL-14-019 "Low-Cost, Pragmatic, Patient-Centered Randomized Controlled Intervention Trials (UH2/UH3)" and the

NIH. This unit will also be responsible for conducting an evaluation of the RFA-HL-14-019 program.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-14-020.html>

Exceptional Unconventional Research Enabling Knowledge Acceleration (EUREKA) for Neuroscience and Disorders of the Nervous System (R01)

Funding Opportunity Number: [\(RFA-MH-14-214\)](#)

Application Receipt Date(s): February 3, 2014

Description: This Funding Opportunity Announcement (FOA) seeks Research Project Grant (R01) applications addressing exceptionally novel hypotheses and/or remarkably difficult problems in neuroscience and disorders of the nervous system. This announcement is for support of new rather than ongoing projects, and is not intended for pilot research. The proposed research may have a high risk of failure, but it must promise results with especially high impact should it be successful. The research should be groundbreaking, innovative, original and/or unconventional, with the potential to solve important problems or open new areas for investigation. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-14-214.html>

Replication of Key Clinical Trials Initiative (U01)

Funding Opportunity Number: [\(PAR-13-383\)](#)

Application Receipt/Submission Date(s): January 14, 2014, January 14, 2015, January 14, 2016

Description: In response to the significant need to replicate influential behavioral and pharmacological clinical trials of therapeutic approaches to the treatment of Alcohol Use Disorders and alcoholic liver disease, this Funding Opportunity Announcement (FOA) invites applications for a limited number of Cooperative Agreements (U01) for the purpose of conducting replication studies of key single-site “proof of concept” clinical trials of a behavioral or pharmacologic nature. <http://grants.nih.gov/grants/guide/pa-files/PAR-13-383.html>

NINDS Research Education Programs for Residents and Fellows in Neurology, Neurosurgery, Neuropathology, Neuroradiology and Emergency Medicine (R25)

Funding Opportunity Number: [\(PAR-13-384\)](#)

Application Receipt/Submission Date(s): January 25, 2014; May 25, 2014; January 25, 2016

Description: This FOA invites Research Education Grant (R25) applications from institutions/organizations to support the development and/or implementation of programs that relate to research education and preparation of clinical residents and fellows that will foster careers as physician-scientists. The PD/PI must have a staff appointment in a Department of Neurology, Neurosurgery or Pathology. Participants in the research education program must be residents or fellows, typically in neurology, neurosurgery, neuropathology, neuroradiology, anesthesiology or emergency medicine, who will conduct research within the mission of NINDS. The NIH recognizes a unique and compelling need to promote diversity in the biomedical, behavioral, clinical and social sciences research workforce. Accordingly, the NIH continues to encourage institutions to diversify their faculty populations and thus to increase the participation of individuals currently underrepresented in the biomedical, clinical, behavioral, and social sciences such as individuals from underrepresented racial and ethnic groups, and individuals with disabilities. PDs/Pis are encouraged to consider participants from diverse backgrounds for this funding opportunity. <http://grants.nih.gov/grants/guide/pa-files/PAR-13-384.html>

Developmental Origins of Health and Disease (DOHaD): Epigenetic Modification in Gametogenesis and Transgenerational Inheritance (R01)

Funding Opportunity Number: [\(PAR-13-385\)](#)

Application Receipt/Submission Date(s): January 30, 2014, January 30, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to encourage applications from the scientific community to support the development of comprehensive reference epigenomes for male and female gametes, and pre-implantation embryos after exposure to a particular environmental factor/insult. What is envisioned is the establishment of a compendium/atlas annotating epigenetic changes during various stages of spermatogenesis, oogenesis, and pre-implantation embryo development, the identification of the affected genes, and the characterization of any resulting phenotype in the offspring. <http://grants.nih.gov/grants/guide/pa-files/PAR-13-385.html>

Cancer Center Support Grants (CCSGs) for NCI-designated Cancer Centers (P30)

Funding Opportunity Number: [\(PAR-13-386\)](#)

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

Description: This Funding Opportunity Announcement (FOA) invites applications for P30 Cancer Center Support Grants

(CCSGs) for NCI-designated Cancer Centers. CCSGs support two types of cancer centers: 1) Comprehensive Cancer Centers, which demonstrate reasonable depth and breadth of research activities in each of three major areas: basic laboratory; clinical; and prevention, control and population-based research, and which have substantial transdisciplinary research that bridges these scientific areas; and 2) Cancer Centers, which are primarily focused on basic laboratory; clinical; and prevention, cancer control, and population-based research; or some combination of these areas. The purpose of both types of NCI-designated Cancer Centers is to capitalize on all institutional cancer research capabilities, integrating meritorious programs in laboratory, clinical, and population research into a single transdisciplinary research enterprise across all institutional boundaries. Cancer Centers supported through this FOA are expected: to serve as major sources of discovery of the nature of cancer and of development of more effective approaches to prevention, diagnosis, and therapy; to contribute significantly to the development of shared resources that support research; to collaborate and coordinate their research efforts with other NCI-funded programs and investigators; and to disseminate research findings for the benefit of the community. <http://grants.nih.gov/grants/guide/pa-files/PAR-13-386.html>

Discovery of Molecular Targets for Pregnancy-Related/Induced Diseases and Development of Therapeutics to Prevent/Treat These Diseases (R01)

Funding Opportunity Number: [\(PAR-13-389\)](#)

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

Description: The purpose of this funding opportunity announcement (FOA) is to encourage grant applications that will identify molecular targets for pregnancy associated/induced disorders and will lead to the development of new safer and more effective medications for use in pregnancy. <http://grants.nih.gov/grants/guide/pa-files/PAR-13-389.html>

Validation and Demonstration of Devices for Environmental Exposure Assessment (R21/R33)

Funding Opportunity Number: [\(RFA-ES-13-013\)](#)

Application Receipt Date(s): February 4, 2014

Description: This funding opportunity announcement (FOA) is intended to facilitate the translation of prototype devices for characterization of personal exposures into field use by supporting a phased validation effort involving a partnership between tool developers and environmental epidemiologists. In the initial (R21) phase, the focus is on iterative refinement of the prototype based on evaluation in a pilot scale study. The goal of this phase is to demonstrate data quality, tool reliability, and usability in a real world and relevant setting. The second (R33) phase will involve larger scale application in a larger epidemiological study to demonstrate the added scientific value of the tool in terms of both improved exposure assessment and estimation of exposure-health outcome relationships. Funding for the second phase requires an evaluation of the successful attainment of quantitative milestones and Go/No-Go decision points established in the application and through negotiation. <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-13-013.html>

Exploratory and Developmental Grant to Improve Health Care Quality through Health Information Technology (IT) (R21)

Funding Opportunity Number: [\(PA-14-001\)](#)

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

Description: The purpose of this Funding Opportunity Announcement (FOA) is to fund exploratory and developmental research grants that will contribute to the evidence base of how health IT improves health care quality. This FOA supports the use of a wide variety of research designs in order to generate information regarding the design and development, implementation, use, or impact of health IT on quality. Depending on the research design and intent of the project, applicants may receive support for: (1) pilot and feasibility or self-contained health IT research projects; (2) secondary data analysis of health IT research; or (3) economic (prospective or retrospective) analyses of a health IT project. Each grant application must clearly state which type of the three types of studies is being proposed. This FOA is focused on five research areas of interest that are needed to support health care quality and are considered part of a continuous quality improvement process. The five research areas of interest for this FOA are:

1. Design
2. Implementation
3. Use
4. Impact on outcomes
5. Measurement

Each application must clearly state at least one primary research area to be addressed. These five research areas are more fully discussed in Section I of the site below. <http://grants.nih.gov/grants/guide/pa-files/PA-14-001.html>

Advancing Patient Safety Implementation through Safe Medication Use Research (R18)**Funding Opportunity Number:** [\(PA-14-002\)](#)**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

Description: AHRQ's Patient Safety (PS) Portfolio is addressing patient safety and medication research by focusing on the safe usage of medications. This perspective centers on how medications move through the health care system and how this systemic process can be improved so that patients are not harmed, while health care delivery is improved. The PS Portfolio encourages the involvement of all members of the health care team, especially patients, and families; nurses, pharmacists, technicians (pharmacy and medication administration technicians), health care administrators, risk managers, and physicians) across all settings of care (including in the home) as well as the home). This FOA will fund investigative research demonstration projects that examine the effective implementation of processes, policies, and behaviors that support safe use of medication as well as its sustainment and dissemination. <http://grants.nih.gov/grants/guide/pa-files/PA-14-002.html>

Collaborative Activities to Promote Metabolomics Research (Admin Supp)**Funding Opportunity Number:** [\(PA-14-003\)](#)**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

Description: This administrative supplement funding opportunity is part of the Common Fund Metabolomics Program created to increase and improve the nation's ability to undertake metabolomics analyses in translational and clinical research. Metabolomics has great potential to advance our understanding of human diseases, but requires specialized expertise in metabolomics study design, technology, and data analysis and interpretation. This FOA supports supplemental funds to current NIH-funded research projects for new interactive collaborations between basic or clinical researchers and metabolomics experts to add biomedical studies requiring a metabolomics approach. In addition to enhancing the parent grant by adding metabolomics analyses, collaborative projects must include activities to increase the expertise of the biomedical research group in key aspects of metabolomics study design, analysis, and data interpretation. All applicants are strongly encouraged to discuss potential requests with the awarding IC and with the Common Fund Metabolomics Scientific/Research contact listed below. Additionally, prior to submission, applicants must review the awarding IC's web site to ensure they meet the IC's requirements. <http://grants.nih.gov/grants/guide/pa-files/PA-14-003.html>

Indo-US Collaborative Program on Affordable Medical Devices (R03)**Funding Opportunity Number:** [\(PAR-13-390\)](#)**Application Receipt/Submission Date(s):** January 23, 2014, January 23, 2015, January 22, 2016; AIDS Date: May 7, 2014, May 7, 2015, May 7, 2016

Description: The goal of this funding opportunity announcement is to (i) foster joint activities between US and Indian scientists on affordable diagnostic and therapeutic technologies, and (ii) address medical needs in low-resource settings, taking advantage of opportunities and technological advances, to aid the development of appropriate affordable medical devices. To address needs and opportunities, Indian and U.S. scientists will undertake a coordinated program that will involve collaborative, peer-reviewed research and technology development projects. Collaboration between engineers and scientists in the U.S. and India will be based on mutual benefit, trust, and a shared commitment to development of diagnostic or therapeutic technologies for people in low-resource settings. <http://grants.nih.gov/grants/guide/pa-files/PA-13-390.html>

New Computational Methods for Understanding the Functional Role of DNA Variants that are Associated with Mental Disorders (Collaborative R01)**Funding Opportunity Number:** [\(PAR-13-391\)](#)**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

Description: The purpose of this Funding Opportunity Announcement (FOA) is to support the development of advanced computational, bioinformatic and statistical tools to determine the functional relevance of genetic variants associated with mental disorders of complex etiologies identified through genome-wide association or sequencing studies. The overarching goal of this initiative is to support the development of innovative computational methods that facilitate the elucidation of the functionality of genetic variants associated with mental illness, taking into account the added complexities and nuances of brain diseases, and to ultimately inform the identification and validation of potential targets for novel treatment development. This FOA should be used when two or more sites are needed to complete the study. For a linked set of collaborative R01s, each site must have its own Program Director/Principal Investigator and the set of linked applications provide a mechanism for cross-site coordination, quality control, database management, statistical

analysis, and reporting. <http://grants.nih.gov/grants/guide/pa-files/PAR-13-391.html>

New Computational Methods for Understanding the Functional Role of DNA Variants that are Associated with Mental Disorders (R01)

Funding Opportunity Number: [\(PAR-13-392\)](#)

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

Description: The purpose of this Funding Opportunity Announcement (FOA) is to support the development of advanced computational, bioinformatic and statistical tools to determine the functional relevance of genetic variants associated with mental disorders of complex etiologies identified through genome-wide association or sequencing studies. The overarching goal of this initiative is to support the development of innovative computational methods that facilitate the elucidation of the functionality of genetic variants associated with mental illness, taking into account the added complexities and nuances of brain diseases, and to ultimately inform the identification and validation of potential targets for novel treatment development. <http://grants.nih.gov/grants/guide/pa-files/PAR-13-392.html>

George M. O'Brien Urology Cooperative Research Centers Program (U54)

Funding Opportunity Number: [\(RFA-DK-13-020\)](#)

Application Receipt Date(s): March 18, 2014

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 for career development of junior 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-13-020.html>

Superfund Hazardous Substance Research and Training Program (P42)

Funding Opportunity Number: [\(RFA-ES-14-001\)](#)

Application Receipt Date(s): April 10, 2014

Description: The National Institute of Environmental Health Sciences (NIEHS) is announcing the continuation of the Superfund Hazardous Substance Research and Training Program, referred to as Superfund Research Program (SRP) Centers. SRP Center grants will support problem-based, solution-oriented research Centers that consist of multiple, integrated projects representing both the biomedical and environmental science and engineering disciplines; as well as cores tasked with administrative, community engagement, research translation, training, and research support functions. The scope of the SRP Centers is taken directly from the Superfund Amendments and Reauthorization Act of 1986, and includes: (1) advanced techniques for the detection, assessment, and evaluation of the effect on human health of hazardous substances; (2) methods to assess the risks to human health presented by hazardous substances; (3) methods and technologies to detect hazardous substances in the environment; and (4) basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances.

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

Centers for Collaborative Research in Fragile X (U54)

Funding Opportunity Number: [\(RFA-HD-14-033\)](#)

Application Receipt Date(s): January 21, 2014

Description: This funding opportunity announcement (FOA) invites applications for the Centers for Collaborative Research in Fragile X. Successful Centers will be composed of >transdisciplinary teams of investigators working together to address focused and challenging scientific questions within targeted areas of research. The targeted areas of research are intended to address research gaps, drive discovery and further develop research relevant to Fragile X syndrome and Fragile X Gene (FMR1)- Related Conditions. Targeted areas of research include:

1. Advancing the understanding of the pathophysiology of FMR1 Related Conditions
2. Facilitating the Development of Treatments for FMR1 Related Conditions

3. Advancing the knowledge of clinical phenotypes for FMR1 Related Conditions

Each Center will consist of 1) at least three distinct but highly integrated scientific projects, 2) an administrative core and 3) no more than two shared resource cores. This FOA will not support Phase II/III clinical trials proposing to test efficacy or effectiveness of treatment/interventions using pharmacological or behavioral/psychosocial components in human subjects (patient or non-patient populations). <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-14-033.html>

Patient Safety Learning Laboratories: Innovative Design and Development to Improve Healthcare Delivery Systems (P30)

Funding Opportunity Number: [\(RFA-HS-14-005\)](#)

Application Receipt Date(s): February 7, 2014

Description: The Agency for Healthcare Research and Quality (AHRQ) funds research leading to patient safety improvements in all settings and systems of care delivery. While many researchers have endorsed a systems model as a way of thinking about entrenched patient safety problems, there has been a scarcity of programmatic activity that actually engages in new design and systems engineering effort, and that is focused on more than singular patient safety concerns. This P30 FOA calls for the creation and utilization of Patient Safety Learning Laboratories. These learning laboratories are places and professional networks where interrelated threats to patient safety can be identified, where multidisciplinary teams generate new ways of thinking with respect to the threats, and where environments are established conducive to brainstorming and rapid prototyping techniques that stimulate further thinking. Learning laboratories further enable multiple develop-test-revise iterations of promising design features and subsystems of the sort that can be found in larger-scale engineering projects. Once the separate projects or systems are developed, integrated, and implemented as an overall working system, the ultimate function of the learning laboratory is to evaluate the system in a realistic simulated or clinical setting with its full complement of facility design, equipment, people (patients, family members, and providers), new procedures and workflow, and organizational contextual features, as appropriate. Under this FOA, applicants will select two to four interrelated patient safety areas as projects for which new and innovative design approaches are needed. While applicants will select the areas of patient safety focus they consider of high significance, a flexible methodology – problem analysis, design, development, implementation, and evaluation – is provided that parallels the system development process to give an underlying structure to the four-year level of effort.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HS-14-005.html>

Advances in Patient Safety through Simulation Research (R18)

Funding Opportunity Number: [\(PA-14-004\)](#)

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

Description: The Agency for Healthcare Research and Quality (AHRQ) is interested in funding a diverse set of projects that develop, test and evaluate various simulation approaches for the purpose of improving the safe delivery of health care. Simulation in health care serves multiple purposes. As a training technique, it exposes individuals and teams to realistic clinical challenges through the use of mannequins, task trainers, virtual reality, standardized patients or other forms, and allows participants to experience in real-time the consequences of their decisions and actions. The principal advantage of simulation is that it provides a safe environment for health care practitioners to acquire valuable experience without putting patients at risk. Simulation also can be used as a test-bed to improve clinical processes and to identify failure modes or other areas of concern in new procedures and technologies that might otherwise be unanticipated and serve as threats to patient safety. Yet another application of simulation focuses on the establishment of valid and reliable measures of clinical performance competency and their potential use for credentialing and certification purposes. Applications that address a variety of simulation techniques, clinical settings, provider groups, priority populations, patient conditions, and threats to safety are welcomed. <http://grants.nih.gov/grants/guide/pa-files/PA-14-004.html>

Animal and Biological Material Resource Centers (P40)

Funding Opportunity Number: [\(PAR-14-005\)](#)

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

Description: This FOA encourages grant applications for national Animal Model, and Animal and Biological Material Resource Centers. These Centers provide support for special colonies of laboratory animals, as well as other resources such as reagents, cultures (cells, tissues, and organs) and genetic stocks that serve the biomedical research community. The resource centers for Animal and Biological Materials collect, maintain, characterize, and distribute defined strains of animals and/or related biological materials to biomedical investigators in a variety of research areas on a

local, regional, national and international basis. This funding opportunity is designed to both support continuation of existing resources, and to develop new ones when appropriate. Prior to preparing an application, all applicants are strongly encouraged to consult with Program staff to be advised on appropriateness of the intended resource plans for this program, competitiveness of a potential application and ORIP's program priorities. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-005.html>

Seeding Collaborations for Translational Research to Discover and Develop New Therapies for Diseases and Conditions within NIDDK's Mission (Revisions) (R01)

Funding Opportunity Number: [\(PAR-14-006\)](#)

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

Description: The purpose of this funding opportunity announcement (FOA) is to seed collaborations that enable translational research for the discovery and development of therapies for diseases and conditions of interest to NIDDK. The FOA encourages collaborations through revisions to active NIDDK R01 research project grants. The revision allows the Program Director/Principal Investigator (PD/PI) to propose an expansion of the specific aims to develop collaborations and approaches that facilitate translational research on target identification, early-stage pharmacological validation of targets and pre-therapeutic leads, lead optimization, and limited pre-clinical development. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-006.html>

NCI Small Grants Program for Cancer Research (NCI Omnibus R03)

Funding Opportunity Number: [\(PAR-14-007\)](#)

Application Receipt/Submission Date(s): February 28, 2014; June 27, 2014; October 28, 2014; February 27, 2015; June 29, 2015; October 28, 2015; February 26, 2016; June 29, 2016; October 28, 2016; AIDS Date: May 5, 2014; September 5, 2014; January 5, 2015; May 5, 2015; September 4, 2015; January 5, 2016; May 5, 2016; September 4, 2016; January 5, 2017

Description: This funding opportunity announcement (FOA), issued by the National Cancer Institute (NCI), of the National Institutes of Health (NIH) supports small research projects on cancer that can be carried out in a short period of time with limited resources. The R03 grant mechanism 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. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-007.html>

Secondary Data Analyses to Explore NIMH Research Domain Criteria (R03)

Funding Opportunity Number: [\(PAR-14-008\)](#)

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

Description: NIMH seeks applications which propose secondary analyses of existing clinical research datasets to investigate constructs identified in the NIMH's Research Domain Criteria (RDoC) initiative and to test novel hypotheses using the RDoC framework. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-008.html>

NIDCD Research Grants for Translating Basic Research into Clinical Tools (R01)

Funding Opportunity Number: [\(PAR-14-009\)](#)

Application Receipt/Submission Date(s): June 23, 2014, February 23, 2015, October 23, 2015, June 23, 2016, February 23, 2017

Description: The NIDCD is encouraging applications which translate basic research findings into clinical tools for better human health in the NIDCD mission areas of hearing, balance, smell, taste, voice, speech and language. The intent of this Funding Opportunity Announcement (FOA) is to provide a new avenue for basic scientists, clinicians and clinical scientists to jointly initiate and conduct translational research projects. The scope of this FOA includes a range of activities to encourage translation of basic research findings which will impact the diagnosis, treatment and prevention of communication disorders. Multi-institutional, multi-disciplinary, and academic-industrial collaborations studies are encouraged. This FOA is not intended for health services/outcome studies, the extension of ongoing clinical research studies, the optimization of current clinical protocols, or pre-translational studies. Connection to the clinical condition must be clearly established and the outcomes of the grant must have practical clinical impact.

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-009.html>

Identification of Gene Variants for Addiction Related Traits by Next-Gen Sequencing in Model Organisms Selectively Bred for Addiction Traits (UH2/UH3)

Funding Opportunity Number: [\(PAR-14-010\)](#)

Application Receipt/Submission Date(s): January 31, 2014; June 30, 2014; October 31, 2014; June 30, 2015; October 31, 2015; June 30, 2016

Description: The goals of this initiative are to: 1) develop strategies and methodologies for the sequencing, mapping and genomic analyzing of established phenotypes of selectively bred animal models with addiction traits, and 2) identify, from new or existing selectively bred animal models, genetic variants with implications for addiction related traits.

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-010.html>

USAID

LINKAGES - HIV SERVICES FOR KEY POPULATIONS

Funding Opportunity Number: SOL-OAA-14-000013

Application Deadline: December 16, 2013

Description: The U.S. Agency for International Development (USAID) seeks applications to carry out a five year, \$72 million, global program to strengthen the capacity of governments and civil society in partner countries to implement high quality, sustainable, evidence-based and comprehensive HIV and AIDS prevention, care and treatment services with key populations at scale. The program focuses on ‘key populations,’ defined here as sex workers (SW), gay men and other men who have sex with men (MSM), transgender persons (TG), and people who inject drugs (PWID). These populations are at high risk to HIV, and in many settings are among those most likely to be affected by and exposed to, and to transmit, HIV. Because their sexual and drug use behaviors are often illegal and stigmatized in most societies, these populations are also often marginalized and experience discrimination; thus reaching them with HIV services requires tailored approaches. In addition to key populations, the new program will address their sexual partners, including sex worker clients. The proposed program will support the President’s Emergency Plan for AIDS Relief (PEPFAR) Blueprint: Creating an AIDS Free Generation. Specifically, this program will address the action step “Increase access to and uptake of HIV services by key populations” in the Roadmap for Smart Investments. The Blueprint states that to be smart about our investments we need to target interventions to populations at greatest risk. The Blueprint posits that evidence-based, high quality HIV/AIDS prevention, care and treatment programs will contribute to reduced morbidity and mortality and improved quality of life and productivity for key populations. <http://www.grants.gov/web/grants/view-opportunity.html?oppId=246813>

Innovate for Health

Funding Opportunity Number: APS-641-13-000001

Application Deadline: June 30, 2014

Description: The U.S Agency for International development (USAID)/ Ghana Mission, seeks applications from qualified U.S. and non-U.S., nonprofit or for-profit non-governmental organizations (NGOs), and Government of Ghana (GOG) academic and research institutions to support its Annual Program Statement (APS) entitled “Innovate for Health”. The purpose of the APS is to publicize USG plans to fund a limited number of programs through USAID/Ghana to research, introduce and scale-up innovative solutions to key health challenges as defined in the Program Summary and Objectives. <http://www.grants.gov/web/grants/view-opportunity.html?oppId=236207>

Broad Agency Announcement (BAA) for Securing Water for Food: A Grand Challenge for Development Competition

Funding Opportunity Number: SOL-OAA-14-000019

Application Deadline: January 17, 2014

Description: This Broad Agency Announcement (BAA) is for a funding competition component of this Grand Challenge for Development, designed to address barriers to enable the production of more food with less water and/or make more water available for food production, processing, and distribution. The BAA describes the purpose of the program and the types of activities that it will fund; indicates the process for preparing and submitting proposals; and outlines criteria that will be used to evaluate the proposals. Through this competition, Securing Water for Food anticipates disbursing \$15 million USD in award funding. Individual awards are expected to be between \$100,000 USD and \$3,000,000 USD depending on the type of funding requested. The period of performance for individual awards is up to three years; the actual period of performance for each award will be determined at the time of award. Awards made through this BAA may be in the form of grants, cooperative agreements, contracts, and collaboration agreements, depending on the nature of the submitting organization and the proposal.

https://www.fbo.gov/index?s=opportunity&mode=form&id=d53fdb18249dd59792db59d62ab60cf9&tab=core&_cview=0

Continuum of Prevention, Care and Treatment of HIV/AIDS in Most at Risk Populations in Cameroon-CHAMP**Funding Opportunity Number:** RFA-624-14-000001**Application Deadline:** January 13, 2014**Description:** USAID/West Africa, through the Regional Health Office, intends to support efforts that contribute to the Cameroon HIV/AIDS National Strategic Plan, 2011-2015, that aims to reduce HIV/STI-related morbidity and mortality, and alleviate its socioeconomic impact on the development of the country. More specifically, the national strategy emphasizes the need to control the epidemic amongst key populations who are most affected and serve as a bridging population for HIV/AIDS transmission to the general population. CHAMP Cameroon will support the government to address these gaps through the expansion of services to the marginalized populations' especially key populations including MSM, CSW and their clients. <http://www.grants.gov/web/grants/view-opportunity.html?oppId=248075>

US Department of Agriculture

Agriculture and Food Research Initiative: NIFA Fellowships Grant Program**Funding Opportunity Number:** USDA-NIFA-AFRI-004368**Letter of Intent Due Date:** December 12, 2013**Application Deadline:** February 20, 2014**Description:** The NIFA Fellowships Program provides fellowships to outstanding pre- and postdoctoral students in the food, agricultural, natural resources, and human sciences. The Program is focused on developing technical and functional competence for pre-doctoral students and the research independence and teaching credentials of post-doctoral students.<http://www.csrees.usda.gov/fo/fellowshipsgrantprogramafri.cfm>

Various

William T. Grant Foundation Invites Letters of Inquiry for Studies on the Uses of Research in Policy and Practice Affecting Youth**Funding Opportunity Number:** N/A**Letter of Inquiry Deadline:** January 8, 2014**Description:** Grants of \$100,000 to \$600,000 will support theory-building studies of factors that affect policy makers' and practitioners' interpretation and use of research evidence relevant to youth.http://foundationcenter.org/pnd/rfp/rfp_item.jhtml?id=443600014**William T. Grant Foundation Invites Letters of Inquiry for Distinguished Fellows Program****Funding Opportunity Number:** N/A**Letter of Inquiry Deadline:** January 8, 2014**Description:** Fellowships will provide up to \$175,000 for learning projects designed to help mid-career practitioners, policy makers, and researchers better understand the creation and use of research related to youth and youth settings.http://foundationcenter.org/pnd/rfp/rfp_item.jhtml?id=443600013**NEA Invites Creative Placemaking Proposals for 'Our Town' Grant Program****Funding Opportunity Number:** N/A**Pre-Application Deadline:** N/A**Application Deadline:** January 13, 2014**Description:** Grants ranging from \$25,000 to \$200,000 are available to partnerships of nonprofits, government entities, and other organizations working on arts-based creative place-making projects that contribute toward the livability of communities. http://foundationcenter.org/pnd/rfp/rfp_item.jhtml?id=443600012

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