

Two CEC teams win NSF I-Corps grants

By Elizabeth Garami

Congratulations to two FIU faculty teams, both from the College of Engineering and Computing (CEC), for receiving the National Science Foundation's (NSF) prestigious Innovation Corps Teams (I-Corps) grants!

Dr. Shekhar Bhansali, Alcatel-Lucent Professor and Chair of the Department of Electrical and Computer Engineering, is the principal investigator (PI) of a successful I-Corps team that includes Kelly Mesa, doctoral student, as the entrepreneurial lead, and Alison Tanner, Entrepreneur in Residence at the Florida Institute for the Commercialization of Public Research. With Ms. Tanner serving as the I-Corps Mentor, the team's proposal to study the commercial potential of a cortisol detection system earned an impressive third place among the 24 teams in their recent I-Corps cohort.

participate in the I-Corps teams program, a faculty member must be a current NSF grantee or the recipient of a NSF award within the past five years.

While I-Corps funds do not support research activities, the short six month \$50,000 awards provide faculty, students and mentors with training in accelerated entrepreneurial skills that are based on the Lean LaunchPad methodology. LaunchPad is widely recognized as a model program used by the NSF, and most recently by the NIH, on development of business pitches based on real-world validation of the business hypotheses regarding potential markets. The I-Corps program facilitates creation of start-up companies and improves chances for licensing opportunities as well as SBIR/STTR grants.

I-Corps teams consist of a Principal Investigator on the eligible NSF award and an Entrepreneurial Lead, who can be a post-doc or a student who is the team member leading the team's efforts to explore the commercial potential of the NSF funded research. The team also includes an I-Corps Mentor who guides the team through the process of creating a business road map for commercialization of the technology.



Left to right: Peter J. Clark, Raymond Chang Lau and David Chu

The Division of Research, in collaboration with the FIU SCIS, will cohost an I-Corps information session on November 14th at 2pm - 3:30pm in ECS 243. The two I-Corps teams will be available to share with students and faculty their experience regarding the program.

For more information on the I-Corps Teams program please visit http://www.nsf.gov/news/special_reports/i-corps/index.jsp or contact Peter Hernández (305) 348-3051 at the Office of Technology Management and Commercialization.

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Left to right: Kelly Mesa, Shekhar Bhansali and Alison Turner

Another FIU I-Corps awardee is Dr. Peter Clark, an associate professor in FIU's School of Computing and Information Sciences. The entrepreneurial lead on Dr. Clark's team is Mr. Raymond Chang Lau, who worked on the technology for two years while earning a master's degree from FIU in computer science. This team's I-Corps Mentor is Mr. David Chu, who possesses extensive experience in software product development and testing. The team's award-winning proposal involves identification of potential markets for introduction of an online tool to train software testers.

Grants awarded by the NSF's I-Corps program create unique opportunities for scientists to learn methods for evaluating the commercial impact of their NSF-funded basic research projects while honing skills as entrepreneurs. To be eligible to



Upcoming Events

October 2014

- **October 3, 9 to 10 am, EC 1112**, “*Perspectives on OCT: Past, Present and Future*,” presented by [Audrey K. Ellerbee](#)
- **October 8, 12:00 to 1:30 pm, Faculty Club**, *Faculty Mentor Program Lunch*
- **October 9, 9 am to 5 pm, MARC Pavilion**, *MARC U*STAR & MBRS RISE Mini Symposium*
- **October 10, 9 to 10 am, EC2300**, “*High Resolution Imaging of Brain Oxygen Delivery and Consumption*,” presented by [Sava Sakadzic](#)
- **October 14, 15, 16, 3 to 4:45pm, AHC4 #402**, *Best Practices for Hiring Faculty Workshop*
- **October 16, 3:30 to 4:45, WC 130**, *Fund your Research!* Grant writing panel
- **October 21, 3 to 4:45 pm Engineering Campus, EC 2300** *Best Practices for Hiring Faculty Workshop*
- **October 23, 3:30 to 5pm, AHC4 #402**, *Setting up your Research Team and Lab*. Specific details will be forthcoming for this workshop and available at <http://mentor.fiu.edu>
- **October 31, 11 to 12 noon, AHC3 #205**, “*Molecular Analysis at the Nanoscale*”, presented by [Emile A. Schweikert](#), Professor, Department of Chemistry, Director, Center for Chemical Characterization and Analysis, Texas A&M University. This event is cosponsored with the Department of Chemistry & Biochemistry.

November 2014

- **November 4, 3:30 to 4:45 pm, EC 2300**, *Tips for Tenure and Promotion* (<http://mentor.fiu.edu>)
- **November 5, 12 noon, BBC MSB #105**, “*A novel tracer to quantify the atmospheric flux of trace elements to remote ocean regions*,” presented by [David Kadko](#) from the Applied Research Center. At MMC, it will be broadcast at AHC1-216.
- **November 5, 3:30 to 4:45pm, AHC1 #110**, *Tips for Tenure and Promotion* (<http://mentor.fiu.edu>)
- **November 6, 12 noon, AHC5 #300**, “*Nucleic acid oxidation: RNA oxidation a novel player in diabetes pathogenesis?*” presented by [Henrik E. Poulsen](#), Professor and Head of Department of Clinical Pharmacology, Rigshospitalet, University Hospital, Denmark RPCPSW Department of Environmental & Occupational Health. This seminar is cosponsored by BSI.
- **November 7, TBD**, “*Mechanisms of Genome Instability Caused by Simple DNA Repeats*”, presented by [Sergei Mirkin](#), Professor and Department Chair, White Family Chair in Biology, Tufts University.
- **November 14, 1 to 5pm, AHC2 170**, “*NIH/NCBI Hands-on Human Genome Workshop: Human Variation and Disease Genes*”, presented by [Peter Cooper](#), NIH, National Center for Biotechnology Information at the National Library of Medicine. The workshop will focus on resources associated with human sequence variations and phenotypes, and emphasizes the central role of the gene database as the best way to access this data. Hosted by Jessica Liberles and Yuk-Ching Tse-Dinh as part of the Biomolecular Sciences Institute (BSI) Lecture Series.
- **November 21, 11 am, TBD**, “*Chemistry and Biochemistry Department Seminar*”, presented by [Richard Smith](#), Pacific Northwest National Laboratory. The workshop is organized by Francisco Fernández-Lima and cosponsored by BSI.

Awards Received

Florida International University researchers were awarded \$14,160,460 in August 2014. Below is a summary:

PI: Omar I Abdul Aziz

INTERNATIONAL HURRICANE CENTER

Award Action Type: Supplemental

AWARDING SPONSOR: Florida Office of Insurance Regulation

TITLE: Florida Public Hurricane Loss Model Project Model Enhancements

AWARD: \$ 133,773

PI: Melissa Lorrain Baralt

MODERN LANGUAGES

Award Action Type: Initial

AWARDING SPONSOR: Language Learning

TITLE: The benefits of bilingualism for children born premature

AWARD: \$ 10,000

PI: John P Berry
CHEMISTRY
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: US-Netherlands/Germany Collaborative Research: **AWARD: \$** 50,095

PI: Werner Boeglin
PHYSICS
Award Action Type: Pre-Award
AWARDING SPONSOR: U.S. Department of Energy
TITLE: A Fast Proton Diagnostic for NSTX **AWARD: \$** 23,037

PI: Kevin Boswell
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: North Pacific Research Board
TITLE: Framework for mobile deployment of the ZOOplankton **AWARD: \$** 53,830

PI: Kevin Boswell
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of Miami
TITLE: Examining the status and distribution of reef fish spawning **AWARD: \$** 24,737

PI: Eric Thomas Brewé
COE TEACHING AND LEARNING
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: Transforming Modeling Instruction: Developing Curriculum **AWARD: \$** 17,147

PI: Kathryn Elizabeth Brogan
DIETETICS AND NUTRITION
Award Action Type: Initial
AWARDING SPONSOR: Wayne State University
TITLE: Patient-Provider Communication to Promote Health Behavior **AWARD: \$** 18,598

PI: Amaury Caballero
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: Miami-Dade County Public Schools
TITLE: Electrical Wiring Program for SED Students **AWARD: \$** 77,000

PI: Yong Cai
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: National Park Service
TITLE: R-EMAP IV: R-EMAP IV - Cai **AWARD: \$** 103,458

PI: Shu-Ching Chen
INTERNATIONAL HURRICANE CENTER
Award Action Type: Supplemental
AWARDING SPONSOR: Florida Office of Insurance Regulation
TITLE: FPHL Model Operation and Maintenance, and Model Upgrades: **AWARD: \$** 106,906

PI: Shu-Ching Chen
INTERNATIONAL HURRICANE CENTER
Award Action Type: Supplemental
AWARDING SPONSOR: Florida Office of Insurance Regulation
TITLE: Florida Public Hurricane Loss Model Project Model Enhancements **AWARD:** \$ 155,107

PI: Peter J Clarke
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Commercial Software Testing Cyberlearning Environment **AWARD:** \$ 50,000

PI: Erika K Coles
CENTER FOR CHILDREN AND FAM
Award Action Type: Continuation
AWARDING SPONSOR: Ohio University
TITLE: Development of Strategies to Increase Teacher Integrity in a **AWARD:** \$ 220,537

PI: Mario R De La Rosa
CRUSADA
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: Center for Substance Use and AIDS Research on Latinos in the US **AWARD:** \$1,151,227

PI: Hai Deng
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Collaborative Research: Investigation of Spectrum Sharing **AWARD:** \$ 342,087

PI: Valerie J Diaz
NURSING FEP BBC
Award Action Type: Initial
AWARDING SPONSOR: Health Resources & Services Adm
TITLE: VBSN Degree Program **AWARD:** \$ 350,000

PI: James Fourqurean
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: National Park Service
TITLE: The South Florida Caribbean Inventory and Monitoring Network **AWARD:** \$ 100,700

PI: James Fourqurean
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Increase
AWARDING SPONSOR: National Park Service
TITLE: Submerged Aquatic Vegetation & Water Quality Monitoring **AWARD:** \$ 105,000

PI: James Fourqurean
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: National Oceanic and Atmospheric Admin
TITLE: MOU between DOC, NOAA, NOS, ONMS & FKNMS **AWARD:** \$1,291,152

PI: James Fourqurean

BIOLOGY

Award Action Type: Increase

AWARDING SPONSOR: National Aeronautics & Space Admin

TITLE: Aquarius Reef Base: NEEMO_18_NASA

AWARD: \$ 48,458

PI: James Fourqurean

BIOLOGY

Award Action Type: Initial

AWARDING SPONSOR: Office of Naval Research

TITLE: Deep Saturation Dive Training

AWARD: \$ 149,391

PI: Kenneth G Furton

INT FORENSIC RSCH INSTITUTE

Award Action Type: Increase

AWARDING SPONSOR: Colgate-Palmolive Company

TITLE: Determining the Underarm Malodor Profile for Different

AWARD: \$ 22,000

PI: Cheng-Tin Gan

CIVIL AND ENVIRON ENGINEERING

Award Action Type: Initial

AWARDING SPONSOR: Florida Department of Transportation

TITLE: Technical and Research Support for ITS and Traffic Engineering

AWARD: \$ 300,000

PI: Daniel Gann

LIBRARY OPERATIONS

Award Action Type: Continuation

AWARDING SPONSOR: National Park Service

TITLE: R-EMAP IV: R-EMAP IV - Gann

AWARD: \$ 15,736

PI: Stavros Georgakopoulos

ELEC AND COMPUTER ENG

Award Action Type: Initial

AWARDING SPONSOR: Northrop Grumman

TITLE: Origami antenna structures for K/Ka/EHF frequency bands

AWARD: \$ 35,000

PI: Shahid Hamid

INTERNATIONAL HURRICANE CENTER

Award Action Type: Supplemental

AWARDING SPONSOR: Florida Office of Insurance Regulation

TITLE: FPHL Model Operation and Maintenance, and Model Upgrades:

AWARD: \$ 211,172

PI: Shahid Hamid

INTERNATIONAL HURRICANE CENTER

Award Action Type: Supplemental

AWARDING SPONSOR: Florida Office of Insurance Regulation

TITLE: FPHL Model Operation and Maintenance, and Model Upgrades:

AWARD: \$ 314,561

PI: Shahid Hamid

INTERNATIONAL HURRICANE CENTER

Award Action Type: Supplemental

AWARDING SPONSOR: Florida Office of Insurance Regulation

TITLE: Florida Public Hurricane Loss Model Project Model Enhancements

AWARD: \$ 760,253

PI: Shahid Hamid
INTERNATIONAL HURRICANE CENTER
Award Action Type: Supplemental
AWARDING SPONSOR: Florida Office of Insurance Regulation
TITLE: Florida Public Hurricane Loss Model Project Model Enhancements **AWARD:** \$ 494,167

PI: Mary Helen Hayden
SCHOOL OF SOCIAL WORK
Award Action Type: Initial
AWARDING SPONSOR: University of Miami
TITLE: SBIRT Collaboration **AWARD:** \$ 17,000

PI: Michael Heithaus
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: Parc National de la Guadeloupe
TITLE: Elasmobranch community composition and their spatial and **AWARD:** \$ 6,750

PI: Julio E Ibarra
CIARA
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Identity and Access Management (IAM) Integration **AWARD:** \$ 300,000

PI: Ranu Jung
BIOMEDICAL ENGINEERING
Award Action Type: Increase
AWARDING SPONSOR: FIU Foundation
TITLE: The Norman R. Weldon Biomedical Engineering Fellowship(s) **AWARD:** \$ 5,000

PI: David Kadko
ARC APPLIED RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: GEOTRACES Arctic Section: Determining the pathways, fate **AWARD:** \$ 128,693

PI: David Kadko
ARC APPLIED RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: GEOTRACES Peru-Tahiti section: Measurement of ⁷Be as a Tracer **AWARD:** \$ 256,233

PI: Konstantinos Kavallieratos
CHEMISTRY
Award Action Type: Initial
AWARDING SPONSOR: U.S. Nuclear Regulatory Commission
TITLE: FIU Nuclear Fellowship Program **AWARD:** \$ 399,978

PI: Laird H Kramer
STEM INSTITUTE
Award Action Type: Initial
AWARDING SPONSOR: Howard Hughes Medical Institute
TITLE: Collaborative for Institutionalizing Scientific Learning at FIU **AWARD:** \$ 300,000

PI: Angela Marie Richmond Laird

PHYSICS

Award Action Type: Initial

AWARDING SPONSOR: National Science Foundation

TITLE: Exploring the Neural Mechanisms of Physics Learning

AWARD: \$ 179,538

PI: Fenfei Leng

CHEMISTRY

Award Action Type: Initial

AWARDING SPONSOR: National Institutes of Health

TITLE: Transcription-coupled DNA Supercoiling

AWARD: \$ 317,194

PI: Robert Lickliter

DOR - DIVISION OF RESEARCH

Award Action Type: Increase

AWARDING SPONSOR: General Medical Sciences

TITLE: MBRS Research Initiative for Scientific Enhancement:

AWARD: \$ 144,162

PI: Robert Lickliter

DOR - DIVISION OF RESEARCH

Award Action Type: Increase

AWARDING SPONSOR: General Medical Sciences

TITLE: MBRS Research Initiative for Scientific Enhancement:

AWARD: \$ 824,437

PI: Kenneth Lipartito

HISTORY

Award Action Type: Initial

AWARDING SPONSOR: City of Miami Beach

TITLE: Miami Beach Archives Digitalization Project

AWARD: \$ 132,899

PI: Dwayne McDaniel

ARC APPLIED RESEARCH CENTER

Award Action Type: Continuation

AWARDING SPONSOR: Federal Aviation Administration

TITLE: Effect of Surface Contamination on Composite Bond Integrity

AWARD: \$ 75,000

PI: Alexander Mebel

CHEMISTRY

Award Action Type: Increase

AWARDING SPONSOR: U.S. Department of Energy

TITLE: Theoretical Studies of chemical reactions related to the formation

AWARD: \$ 154,261

PI: Amir Mirmiran

CIVIL AND ENVIRON ENGINEERING

Award Action Type: Increase

AWARDING SPONSOR: Florida Department of Transportation

TITLE: Use of Fiber Reinforced Polymer Composite Cable for Post-Tensioning

AWARD: \$ 5,209

PI: Osama A Mohammed

ELEC AND COMPUTER ENG

Award Action Type: Initial

AWARDING SPONSOR: Office of Naval Research

TITLE: Optimal DC Distribution Architectures for Ship Power Systems Based

AWARD: \$ 200,000

PI: Norman D Munroe
MECHANICAL AND MAT ENGINEERING
Award Action Type: Supplemental
AWARDING SPONSOR: Technology Student Association
TITLE: 2014-2015 UNITE **AWARD:** \$ 10,578

PI: Nezih Pala
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: NeTS:SMALL: Collaborative Research: Multi-Element Illumination **AWARD:** \$ 250,000

PI: Samantha Christine Paustian Underdahl
DEPT OF MGMT AND INTL BUSINESS
Award Action Type: Initial
AWARDING SPONSOR: Kennesaw State University
TITLE: Investigating Pregnancy Disclosure at Work **AWARD:** \$ 1,230

PI: Rene Price
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Increase
AWARDING SPONSOR: South Florida Water Management District
TITLE: Hydrological Conditions of Mangrove Lakes Region of Everglades **AWARD:** \$ 12,000

PI: Sean Prospect
COE DEANS OFFICE
Award Action Type: Initial
AWARDING SPONSOR: Children's Trust
TITLE: The Children's Trust (FIU After-School All-Stars) **AWARD:** \$ 77,855

PI: Jessica Ramella Roman
BIOMEDICAL ENGINEERING
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: Creation of a Novel Imaging System to Objectively Assess the **AWARD:** \$ 2,285

PI: Raphael Raptis
CHEMISTRY
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: Copper-Based Water-Oxidation Electrocatalysts; Design, Synthesis **AWARD:** \$ 20,000

PI: Lakshmi Narayana Reddi
UGS UNIVERSITY GRAD SCHOOL
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: A New Collaborative Effort for Biomimetic-Based Research on **AWARD:** \$ 38,533

PI: Jennifer Rehage
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Increase
AWARDING SPONSOR: Bonefish & Tarpon Unilimited
TITLE: Bonefish declines in Florida Bay: an integrative geospatial **AWARD:** \$ 54,614

PI: Shaolei Ren
COMPUTER INFO SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: CSR: Small: Improving Data Center Water Efficiency via Online **AWARD:** \$ 333,495

PI: Jennifer Richards
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: National Park Service
TITLE: R-EMAP IV: R-EMAP IV - Richards **AWARD:** \$ 14,339

PI: Jennifer Richards
BIOLOGY
Award Action Type: Increase
AWARDING SPONSOR: Fairchild Tropical Botanic Garden
TITLE: Fairchild Tropical Botanic Garden supports research and education **AWARD:** \$ 24,241

PI: Naphtali Rische
COMPUTER INFO SCIENCES
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: I/UCRC Phase II: Center for Advanced Knowledge Enablement: **AWARD:** \$ 81,750

PI: Naphtali Rische
COMPUTER INFO SCIENCES
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: I/UCRC Phase II: Center for Advanced Knowledge Enablement: **AWARD:** \$ 200,000

PI: Naphtali Rische
COMPUTER INFO SCIENCES
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: I/UCRC Phase II: Center for Advanced Knowledge Enablement: **AWARD:** \$ 50,000

PI: Douglas Lee Robertson
UNDERGRADUATE EDUCATION
Award Action Type: Increase
AWARDING SPONSOR: Association of Public & Land-Grant Univ
TITLE: Transformational Planning Grant: University Transformation **AWARD:** \$ 180,013

PI: Camilo Rosales
ARCHITECTURE
Award Action Type: Increase
AWARDING SPONSOR: U.S. Department of State
TITLE: Energy and Climate Partnership of the Americas (ECPA) grant **AWARD:** \$ 42,400

PI: Suzanna Rose
WOMENS STUDIES CENTER
Award Action Type: Initial
AWARDING SPONSOR: Children's Trust
TITLE: TRIPLEP4YOU **AWARD:** \$ 149,821

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: \$** 91,718

PI: Sofia Santiesteban
COLLEGE ACCESS
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Department of Education
TITLE: Florida International University Upward Bound **AWARD: \$** 338,943

PI: Sofia Santiesteban
COLLEGE ACCESS
Award Action Type: Initial
AWARDING SPONSOR: Florida Education Fund
TITLE: South Florida Center of Excellence 2014-2015 **AWARD: \$** 26,000

PI: Arif Islam Sarwat
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Collaborative Research:RIPS Type 2: Vulnerability Assessment **AWARD: \$** 237,222

PI: Leonard Scinto
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: National Park Service
TITLE: R-EMAP IV: R-EMAP IV - Scinto **AWARD: \$** 49,467

PI: Ernest G Simms
STUDENT AFFAIRS VICE PRES OFF
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Department of Education
TITLE: Upward Bound Math-Science 12-17 **AWARD: \$** 193,786

PI: Ernest G Simms
STUDENT AFFAIRS VICE PRES OFF
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Department of Education
TITLE: Subproject: Upward Bound Math-Science 12-17 **AWARD: \$** 56,177

PI: Sharon R Simon
NURSING UNDERGRADUATE
Award Action Type: Continuation
AWARDING SPONSOR: Health Resources & Services Admin **AWARD: \$** 335,420

PI: Oren B Stier
RELIGIOUS STUDIES
Award Action Type: Initial
AWARDING SPONSOR: Robert Russell Memorial Foundation
TITLE: Developing an Online Holocaust Studies Certificate **AWARD: \$** 3,000

PI: Tiffany Troxler**SOUTHEAST ENV RESEARCH CTR****Award Action Type:** Continuation**AWARDING SPONSOR:** National Park Service**TITLE:** Ecological Assessment of Florida Bay and adjacent Mangrove Wetlands**AWARD:** \$ 148,000**PI:** Yukching Tse Dinh**CHEMISTRY****Award Action Type:** Increase**AWARDING SPONSOR:** National Institutes of Health**TITLE:** Bacterial cell killing by topoisomerase I mediated DNA lesion**AWARD:** \$ 357,721**PI:** Anna H Wachnicka Kosiorek**SOUTHEAST ENV RESEARCH CTR****Award Action Type:** Increase**AWARDING SPONSOR:** U.S. Geological Survey**TITLE:** A multi-proxy study of environmental change and ecological regime**AWARD:** \$ 25,992**PI:** Wei Wang**MATH AND STATISTICAL SCIENCES****Award Action Type:** Continuation**AWARDING SPONSOR:** Brown University**TITLE:** High order discontinuous Galerkin and weighted essentially**AWARD:** \$ 35,862**PI:** Oren Dale Williams**BIostatISTICS****Award Action Type:** Continuation**AWARDING SPONSOR:** National Institutes of Health**TITLE:** Strengthening Indian NCD Clinical Research and Training Capacity**AWARD:** \$ 217,877**PI:** Ning Xie**COMPUTER INFO SCIENCES****Award Action Type:** Initial**AWARDING SPONSOR:** National Science Foundation**TITLE:** CCF: Small: Local Computation Algorithms - New Directions**AWARD:** \$ 229,142**PI:** Juan Carlos Zevallos**COM ACADEMIC AFFAIRS****Award Action Type:** Initial**AWARDING SPONSOR:** Metro Santurce Inc.**TITLE:** Puerto Rico Infarction National Collaborative Experience (PRINCE)**AWARD:** \$ 89,496

Limited Submission Funding Opportunities

Below are limited submission opportunities with an internal deadline during the months of October and November.

Agency	Program	Institutional Submission Limits	Internal Deadline	Agency Deadline
NSF	Small Business Innovation Research Program Phase I Solicitation (SBIR) (NSF 14-603)	Limit 2 applications per institution	10/02/2014	12/02/2014
NSF	Theory Institute in Atomic, Molecular and Optical Physics (NSF 14-570)	Limit one application per institution	10/08/2014	12/08/2014
NSF	Theory Institute in Atomic, Molecular and Optical Physics (NSF 14-570)	Limit one application per institution	10/08/2014	12/08/2014

Agency	Program	Institutional Submission Limits	Internal Deadline	Agency Deadline
NIH	Centers of Excellence for Research on CAM (P01) - AIDS Application (PAR-12-151)	Limit one application per institution	11/25/2014	AIDS Application: 01/07/2015
NSF	Science and Technology Centers: Integrative Partnerships (NSF 14-600)	Limit 3 applications per institution	11/11/2014	Prelim deadline: 12/11/2014 Agency Deadline: 06/06/2015

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

Funding Opportunities

Department of Defense

Atoms to Product (A2P)

Funding Opportunity Number: DARPA-BAA-14-56

Application Deadline: November 12, 2014

Description: The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of processes and technology for assembly of systems, components, and materials at millimeter scale or larger from nanometer scale constituents. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice. See attached DARPA-BAA-14-56.

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

DoD Breast Cancer Breakthrough Award Levels 1 and 2

Funding Opportunity Number: W81XWH-14-BCRP-BREAKTHROUGH2-FL12

Application Deadline: December 17, 2014

Description: The intent of the Breakthrough Award is to support promising research that has high potential to lead to or make breakthroughs in breast cancer. The critical components of this award mechanism are: Impact: Research supported by the Breakthrough Award will have the potential for a major impact and accelerate progress toward ending breast cancer. The impact may be near-term or long-term, but must be significant and move beyond an incremental advancement. Applications must articulate the pathway to making a clinical impact for individuals with, or at risk for, breast cancer, even if clinical impact is not an immediate outcome. Research Scope: Research proposed under this award mechanism may be small- to large-scale projects, at different stages of idea and research development. Two different funding levels, based on the scope of the research, are available under this Program

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

DoD Breast Cancer Breakthrough Award Levels 3 and 4

Funding Opportunity Number: W81XWH-14-BCRP-BREAKTHROUGH2-FL34

Application Deadline: January 29, 2015

Description: The intent of the Breakthrough Award is to support promising research that has high potential to lead to or make breakthroughs in breast cancer. The critical components of this award mechanism are: Impact: Research supported by the Breakthrough Award will have the potential for a major impact and accelerate progress toward ending breast cancer. The impact may be near-term or long-term, but must be significant and move beyond an incremental advancement. Applications must articulate the pathway to making a clinical impact for individuals with, or at risk for, breast cancer, even if clinical impact is not an immediate outcome. Research Scope: Research proposed under this award mechanism may be small- to large-scale projects, at different stages of idea and research development. Two different funding levels, based on the scope of the research, are available under this Program

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

Gulf War Illness Innovative Treatment Evaluation Award

Funding Opportunity Number: W81XWH-14-GWIRP-ITEA2

Application Deadline: January 27, 2015

Description: The Innovative Treatment Evaluation Award (ITEA) is intended to support the initial evaluation of a treatment or intervention in smaller, early phase or pilot clinical trials (Phase 0, I, or I/II, devices in U.S. Food and Drug Administration [FDA] Class I-III) and does not require preliminary data in a Gulf War Illness model system. The ITEA supports the early systematic evaluation of innovative interventions with the potential to impact the health and lives of veterans with GWI. The results of preliminary studies funded by this award should have the potential to provide clinical proof-of-principle data and support future development of broader efficacy studies of the proposed interventions. Innovation is an important component of the ITEA. An application may demonstrate innovation not only by investigating a novel therapeutic approach for GWI, but also by studying a treatment that may have been utilized for other chronic multi-symptom illnesses, but has not yet been studied in veterans with GWI. This award mechanism is designed to evaluate a broad scope of treatment approaches with potential for application for GWI. Treatment approaches may include pharmacologic or other physiological interventions, including conventional, alternative, or complementary (combination of alternative and conventional) approaches. A variety of experimental and non-experimental study designs are acceptable under this award mechanism. The proposed study design will depend on the specific treatment or intervention to be assessed, resources available to clinical investigators, and the level of evidence currently available to support the proposed treatment for GWI.
<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Space/Time Analysis for Cybersecurity (STAC)

Funding Opportunity Number: DARPA-BAA-14-60

Application Deadline: October 28, 2014

Description: The Space/Time Analysis for Cybersecurity (STAC) program seeks to enable analysts to identify algorithmic resource usage vulnerabilities in software at levels of scale and speed great enough to support a methodical search for them in the software upon which the U.S. government, military, and economy depend. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice. See the full DARPA-BAA-14-60 document attached.
<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Defense University Research Instrumentation Program (DURIP) Fiscal Year 2015

Funding Opportunity Number: PA-AFOSR-2014-0001

Application Deadline: November 17, 2014

Description: The Department of Defense (DoD) announces the Fiscal Year 2015 Defense University Research Instrumentation Program (DURIP), a part of the University Research Initiative (URI). DURIP is designed to improve the capabilities of U.S. institutions of higher education to conduct research and to educate scientists and engineers in areas important to national defense, by providing funds for the acquisition of research equipment
<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Defense University Research Instrumentation Program (DURIP) Fiscal Year 2015 - Navy Submission

Funding Opportunity Number: PA-AFOSR-2014-0001

Application Deadline: November 17, 2014

Description: NAVY SUBMISSION The Department of Defense (DoD) announces the Fiscal Year 2015 Defense University Research Instrumentation Program (DURIP), a part of the University Research Initiative (URI). DURIP is designed to improve the capabilities of U.S. institutions of higher education to conduct research and to educate scientists and engineers in areas important to national defense, by providing funds for the acquisition of research equipment. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Strategic Technologies

Funding Opportunity Number: DARPA-BAA-14-48

Application Deadline: September 17, 2015

Description: DARPA is seeking innovative ideas and disruptive technologies that offer the potential for significant capability improvement across the Strategic Technology Office focus areas. This includes technology development related to Battle Management, Command and Control (BMC2), Communications and Networks, Electronic Warfare, Intelligence, Surveillance, and Reconnaissance (ISR), Position, Navigation, and Timing (PNT), Maritime,

and Foundational Strategic Technologies and Systems. See attachment for the full solicitation.
<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

DoD PH/TBI Community Partners in Mental Health Research Award

Funding Opportunity Number: W81XWH-14-PHTBIRP-CPMHRA

Application Deadline: January 23, 2015

Description: The intent of the FY14 PH/TBIRP Community Partners in Mental Health Research Award (CPMHRA) is to address Section 706 by supporting research on the causes, development, and innovative treatment of mental health, substance use disorders, TBI, and suicide prevention in members of the National Guard and Reserves, their family members, and their caregivers. The focus of the CPMHRA is on research only; proposed projects should NOT include other treatment, education, and outreach efforts. Research projects should be carried out by or in collaboration with community partners. Community partners as referenced in Section 706 are private non-profit organizations or institutions that engage in (1) research on the causes, development, and innovative treatment; (2) identifying and disseminating evidence-based treatments; and/or (3) outreach and education for mental health, substance use disorders, TBI, and suicide prevention in members of the National Guard and Reserves, their family members, and their caregivers. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Fiscal Year (FY) 2015 Department of Defense Multidisciplinary Research Program of the University Research Initiative

Funding Opportunity Number: ONRFOA14-012

Application Deadline: February 23, 2015

Description: The DoD Multidisciplinary University Research Initiative (MURI), one element of the University Research Initiative (URI), is sponsored by the DoD research offices: the Office of Naval Research (ONR), the Army Research Office (ARO), and the Air Force Office of Scientific Research (AFOSR) (hereafter collectively referred to as "DoD agencies"). The MURI program supports basic research in science and engineering at U.S. institutions of higher education (hereafter referred to as "universities") that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest to the DoD.

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

Miami-Dade County Department of Cultural Affairs

Audience Access Grant Program

Funding Opportunity Number: N/A

Application Deadline: Ongoing

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

Community Grants Program (CG) – 3rd Quarter

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (CG Specific): December 18, 2014, 2 PM – [Click here to RSVP](#)

Application Deadline: January 8, 2015 – 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>

National Institutes of Health

Interdisciplinary Research to Understand the Vascular Contributions to Alzheimer's Disease (R01)

Funding Opportunity Number: RFA-AG-15-010

Application Deadline: February 3, 2015

Description: The goal of this funding opportunity announcement is to support interdisciplinary research that will lead to a greater understanding of the mechanisms by which vascular factors contribute to the complex etiology of Alzheimer's disease. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-010.html#sthash.81o9EO7u.dpuf>

Biomarkers of Alzheimer's Disease in Down Syndrome (R01)

Funding Opportunity Number: RFA-AG-15-011

Application Deadline: January 12, 2015

Description: The goal of this funding opportunity announcement is to enable the identification of the longitudinal progression of Alzheimer's disease in adults with Down Syndrome using clinical, cognitive, imaging, genetic and biochemical biomarkers. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-011.html#sthash.8enMZYdi.dpuf>

Senator Paul D. Wellstone Muscular Dystrophy Cooperative Research Centers (U54)

Funding Opportunity Number: RFA-AR-15-002

Application Deadline: November 28, 2014

Description: The purpose of this Funding Opportunity Announcement (FOA) is to publicize a competition for Senator Paul D. Wellstone Muscular Dystrophy Cooperative Research Centers (MDCRCs). These Centers promote collaborative basic, translational and clinical research and provide important resources that can be used by the national muscular dystrophy research communities. The centers also provide an outstanding environment for the training of new scientists electing to pursue careers conducting research in high priority areas of muscular dystrophy. Center investigators are expected to participate in important community outreach efforts to increase awareness and convey the importance and implications of their research activities to the patient and advocacy communities. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AR-15-002.html#sthash.aK0vmWRs.dpuf>

Approaches to Eliminate HIV and Opportunistic Pathogens from Oral Reservoirs (R01)

Funding Opportunity Number: RFA-DE-15-003

Application Deadline: November 21, 2014 and July 28, 2015

Description: The goal of this Funding Opportunity Announcement (FOA) is to support novel basic and translational research projects that focus on the biology of residual oral reservoirs for HIV and opportunistic oral pathogens. These studies will advance our understanding of the immunologic, pathogenic, molecular and cellular mechanisms important for eliminating latently persistent, reactivation competent HIV and other opportunistic pathogens from residual oral reservoirs. Specifically, this FOA encourages studies on: 1) purging and abolishing these pathogens after using Highly Active Anti-Retroviral Therapy (HAART) to induce cytopathic killing and immunoclearance; or 2) developing alternative strategies that directly eliminate latently infected cells in which HAART resistant HIV and opportunistic pathogens persist in oral reservoirs.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DE-15-003.html#sthash.0fEb1Bo4.dpuf>

Type 1 Diabetes Complications IMPACT Award (DP3)

Funding Opportunity Number: RFA-DK-14-017

Application Deadline: March 19, 2015

Description: This FOA encourages research applications from institutions/organizations proposing innovative studies focused on major obstacles to developing therapeutic approaches for complications of Type 1 Diabetes.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-017.html#sthash.0CVyZC5U.dpuf>

Consortium on Beta-cell Death and Survival (HIRN-CBDS) (UC4)

Funding Opportunity Number: RFA-DK-14-021

Application Deadline: March 3, 2015

Description: This Funding Opportunity Announcement (FOA) requests applications for the development of

medium- to high-throughput "omics" technologies that can be used to explore human pancreatic tissues with single cell- or near single cell- resolution. Successful applicants will join the Consortium on Beta cell Death and Survival (CBDS), whose mission is to identify the mechanisms of beta cell stress and destruction central to the development of Type 1 Diabetes (T1D) in humans, with the long-term goal of protecting the residual beta cell mass in T1D patients as early as possible in the disease process, and preventing the progression towards autoimmunity. CBDS is part of the Human Islet Research Network (HIRN). <http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-021.html#sthash.MQxWxjIX.dpuf>

Identification of Novel Targets and Pathways Mediating Weight Loss, Diabetes Resolution and Related Metabolic Disease after Bariatric Surgery in Humans (R01)

Funding Opportunity Number: RFA-DK-14-025

Application Deadline: April 16, 2015

Description: This Funding Opportunity Announcement (FOA) will support applications that address the mechanisms by which novel, unexplored targets and pathways, or known targets, mediate the sustained weight loss, diabetes resolution and improvements in other obesity-related metabolic diseases reported following bariatric surgery in humans. Studies directly addressing novel mechanisms using targeted approaches are of interest and responsive to this FOA particularly those which utilize up-to-date sophisticated methodologies. Studies simply identifying differences in responses before and after surgery that do not address mechanism will not be considered responsive. Only studies involving human subjects will be considered.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-025.html#sthash.S6bZbwLj.dpuf>

Training Modules to Enhance Data Reproducibility (R25)

Funding Opportunity Number: RFA-GM-15-006

Application Deadline: November 20, 2014

Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this NIH R25 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 and foster a better understanding of biomedical, behavioral and clinical research and its implications. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on developing courses for skills development, specifically, training modules for graduate students, postdoctoral fellows, and beginning investigators designed to enhance data reproducibility.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-GM-15-006.html#sthash.j9PPFvf5.dpuf>

Administrative Supplements for U.S. - Brazil Biomedical Collaborative Research

Funding Opportunity Number: PA-14-328

Application Deadline: Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) announces an opportunity for eligible investigators receiving research funding from The National Institutes of Health (NIH) to request administrative supplement support. The "parent" awards and the proposed administrative supplements must be in areas of cancer, allergy, immunology, and/or infectious diseases (including HIV/AIDS and its co-morbidities). The overall goal of this supplement program is to enhance ongoing research efforts through collaborations with Brazilian scientists in these scientific areas under the new U.S.-Brazil Collaborative Biomedical Research Program.

<http://grants.nih.gov/grants/guide/pa-files/PA-14-328.html#sthash.EQfSKKqw.dpuf>

Pediatric Preclinical Testing Consortium: Research Programs (U01)

Funding Opportunity Number: RFA-CA-14-018

Application Deadline: November 13, 2014

Description: This Funding Opportunity Announcement (FOA) is for Research Programs for *in vivo* and *in vitro* testing of the activity of pediatric anticancer drug candidates. These Research Programs are the fundamental part of the Pediatric Preclinical Testing Consortium (PPTC) initiative, which also includes a PPTC Coordinating Center (supported under [RFA-CA-14-019](http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-019)). The main goal for PPTC is to develop a rigorous preclinical testing system for pediatric anticancer drug candidates and to generate reliable data that can be used to inform new agent prioritization decisions. This FOA invites applications for drug testing Research Programs focused on specific

tumor types that are particularly relevant to pediatric oncology. Each application must propose only one testing Research Program from the following four types:

- Type A: Research Program for leukemia *in vivo* testing;
- Type B: Research Program for tumors of central nervous system (CNS) *in vivo* testing;
- Type C: Research Program for other (non-CNS) solid tumors testing *in vivo*; and
- Type D: Research Program for *in vitro* testing.

Applicants may propose Research Programs of more than one type but only through separate applications for each. Applicants proposing *in vivo* testing programs must be capable of quantitative assessment of tumor regression and time to event for 6 to 10 new agents (or combinations of agents) annually across relevant, well-characterized preclinical models. All applicants are expected to have substantial expertise regarding the biology and therapeutic opportunities for the tumor types that they propose to study. The PPTC Research Program Awardees will be required to collaborate closely with the PPTC Coordinating Center.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-018.html#sthash.yA74qTpT.dpuf>

Pediatric Preclinical Testing Consortium: Coordinating Center (U01)

Funding Opportunity Number: RFA-CA-14-019

Application Deadline: November 13, 2014

Description: This Funding Opportunity Announcement (FOA) is a part of the Pediatric Preclinical Testing Consortium (PPTC) initiative. The PPTC will consist of *in vivo* and *in vitro* testing Research Programs (both supported under companion [RFA-CA-14-018](http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-018.html)) and the PPTC Coordinating Center (supported under this FOA). The PPTC is designed to address key challenges associated with the development of new therapies for children with cancer by developing reliable preclinical testing data for pediatric drug candidates that can be used to inform new agent prioritization decisions. The PPTC Research Programs, responsible for conducting the *in vivo* and *in vitro* testing of selected agents, will be focused on specific tumor types that are particularly relevant to pediatric oncology. <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-019.html#sthash.qkOjL1dK.dpuf>

Planning Grants for Dental, Oral and Craniofacial Tissue Regeneration Consortium Resource Centers (R34)

Funding Opportunity Number: RFA-DE-15-005

Application Deadline: January 29, 2015

Description: This Funding Opportunity Announcement (FOA) invites Planning Grant applications to articulate a vision, roadmap, organizational structure and operational procedures for establishing Resource Centers (RCs). These planning grants are intended to enable the institutions to develop the necessary partnerships and infrastructure needed to be competitive for establishing successful RCs. It is envisioned that the RCs will provide technical support and research capacity for a future Dental Oral and Craniofacial Tissue Regeneration Consortium (DOCTRC). <http://grants.nih.gov/grants/guide/rfa-files/RFA-DE-15-005.html#sthash.iGctDLud.dpuf>

(Re)Building a Kidney Coordinating Center (U01)

Funding Opportunity Number: RFA-DK-14-009

Application Deadline: January 14, 2015

Description: This Funding Opportunity Announcement (FOA) is a new initiative to invite applications to participate in the Kidney Consortium as the Coordinating Center. The consortium Coordinating Center will manage activities of the consortium including research opportunities (e.g., the Opportunity Pool program), and facilitate communication of research results, data, and methods within the consortium and with the community.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-009.html#sthash.akOLQpRh.dpuf>

(Re)Building a Kidney: Cells to Organ (UH2/UH3)

Funding Opportunity Number: RFA-DK-14-010

Application Deadline: January 14, 2015

Description: This Funding Opportunity Announcement (FOA) invites new research project applications to participate in the NIDDK (Re)Building a Kidney Consortium. The projects will be part of a research network focused on the expansion of tools, resources, and knowledge that will guide studies on the *in vivo* regeneration of

functional nephrons or in vitro generation of nephrons for kidney transplant. Funds will be made available through the UH2/UH3 cooperative agreement award mechanism.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-010.html#sthash.TXKrRLZz.dpuf>

Advancing Interventions to Improve Medication Adherence (R01)

Funding Opportunity Number: PA-14-334

Application Deadline: Multiple dates, see announcement.

Description: This FOA seeks Research Project Grant (R01) applications that propose interventions to significantly improve medication adherence in individuals. A well-articulated theoretical or conceptual framework is key for applications encouraged under this announcement. Primary outcomes of the research can include a patient self-report of medication adherence, but must also at least one non-self-report measure of medication adherence (e.g., pharmacy refill records, electronic monitoring, etc.). In addition, applications are encouraged to include a relevant health outcome or biomarker (e.g., blood pressure, viral load in HIV-infected individuals, cholesterol levels, HbA1c) that is expected to be affected by changes in the targeted adherence behavior. For diseases without identified biomarkers, inclusion of a clinical assessment (e.g., a medicine blood level, diagnostic interview or an independent clinician rating of the symptoms and behaviors) may be considered.

<http://grants.nih.gov/grants/guide/pa-files/PA-14-334.html#sthash.rhd210pX.dpuf>

Advancing Interventions to Improve Medication Adherence (R21)

Funding Opportunity Number: PA-14-335

Application Deadline: Multiple dates, see announcement.

Description: This FOA encourages Exploratory/Developmental Research Project Grant (R21) applications for research and development of interventions to significantly improve medication adherence in individuals. A well-articulated theoretical or conceptual framework is key for applications encouraged under this announcement. Applicants should demonstrate the feasibility of collecting multi-modal data on the targets of the intervention including: a patient self-report of medication adherence, at least one non-self-report measure of medication adherence (e.g., pharmacy refill records, electronic monitoring, etc.), and a relevant health outcome or biomarker (e.g., blood pressure, viral load in HIV-infected individuals, cholesterol levels, HbA1c) that is expected to be affected by changes in the targeted adherence behavior. For diseases without identified biomarkers, inclusion of a clinical assessment (e.g., a medicine blood level, diagnostic interview or an independent clinician rating of the symptoms and behaviors) may be considered. Applications for R21 awards should describe projects distinct from those supported through the traditional R01 mechanism. <http://grants.nih.gov/grants/guide/pa-files/PA-14-335.html#sthash.h9KzSubJ.dpuf>

Global Brain and Nervous System Disorders Research Across the Lifespan (R21)

Funding Opportunity Number: PAR-14-331

Application Deadline: Application Due Dates: January 5, 2015; January 5, 2016; January 5, 2017 AIDS

Application Due Dates: January 5, 2015; January 5, 2016; January 5, 2017

Description: This Funding Opportunity Announcement (FOA) encourages exploratory/developmental research grant applications, proposing the development of innovative, collaborative research projects on brain and other nervous system function and disorders throughout life, relevant to low- and middle-income countries (LMICs). Scientists in the United States (U.S.) or upper middle income countries (UMICs) are eligible to partner with scientists in LMIC institutions. Income categories used are as defined by the World Bank at <http://data.worldbank.org/about/country-classifications/country-and-lending-groups>. These grants are expected to inform the development of more comprehensive research programs that contribute to the long-term goals of building sustainable research capacity in LMICs to address nervous system development, function and impairment throughout life and to lead to diagnostics, prevention, treatment and implementation strategies. The proposed work may also contribute to developing a base for research networking and evidence-based policy beyond the specific research project. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-331.html#sthash.QjzXhDE0.dpuf>

Global Brain and Nervous System Disorders Research Across the Lifespan (R01)

Funding Opportunity Number: PAR-14-332

Application Deadline: Application Due Date(s): January 5, 2015; January 5, 2016; January 5, 2017 AIDS

Application Due Date(s): January 5, 2015; January 5, 2016; January 5, 2017

Description: This Funding Opportunity Announcement (FOA) encourages grant applications for the conduct of innovative, collaborative research projects between U.S. and low- and middle-income country (LMIC) scientists, on brain and other nervous system function and disorders throughout life, relevant to LMICs. Scientists in upper middle income countries (UMICs) are eligible to partner directly with scientists at other LMIC institutions. Income categories are defined by the World Bank at <http://data.worldbank.org/about/country-classifications/country-and-lending-groups>. The collaborative research programs are expected to contribute to the long-term goals of building sustainable research capacity in LMICs to address nervous system development, function and impairment throughout life and to lead to diagnostics, prevention, treatment and implementation strategies. The proposed work will also contribute to developing a base for research networking and evidence-based policy beyond the specific research project. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-332.html#sthash.Szrw9i6w.dpuf>

Biomedical/Biobehavioral Research Administration Development (BRAD) Award (G11)

Funding Opportunity Number: PAR-14-333

Application Deadline: November 28, 2014, August 19, 2015, August 19, 2016

Description: The purpose of this Funding Opportunity Announcement (FOA) is to invite applications that propose to establish Offices of Research and Sponsored Programs (ORSPs) or enhance the services of existing ORSPs or similar entities at domestic and international institutions of higher learning. Domestic program priorities include emerging research institutions and primarily undergraduate institutions, including women's colleges, that have a racial and ethnically diverse student enrollment and that meet the eligibility requirement of the NIH [Academic Research Enhancement Award \(AREA\) program](#). International program priorities include institutions of higher education in sub-Saharan Africa, India, and low and middle income countries in the Caribbean and South America that meet the eligibility requirements. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-333.html#sthash.3g9eFZtl.dpuf>

National Science Foundation

Algebra and Number Theory

Funding Opportunity Number: PD-10-1264

Application Deadline: October 10, 2014

Description: The Algebra and Number Theory program supports research in algebra, algebraic and arithmetic geometry, number theory, and representation theory. Conferences Principal Investigators should carefully read the program solicitation "Conferences and Workshops in the Mathematical Sciences" to obtain important information regarding the substance of proposals for conferences, workshops, summer/winter schools, and similar activities. For conference proposals with budgets not exceeding \$50,000, which in accordance with NSF policy can be reviewed internally at NSF, the following target dates are in effect: For an event that will take place at some time prior to October 1 during a given year, the proposal should be submitted in October of the previous year. For an event that will occur in the period October 1 through December 31 of a given year, the proposal should be submitted in May of that year. A conference proposal with a budget request exceeding \$50,000 should be submitted roughly seven months before the event is scheduled to take place, in order to allow time for external review. http://www.nsf.gov/funding/pgm_summ.jsp?id=5431

Smart and Connected Health

Funding Opportunity Number: 13-543

Application Deadline: October 10, 2014

Description: The goal of the Smart and Connected Health (SCH) Program is to accelerate the development and use of innovative approaches that would support the much needed transformation of healthcare from reactive and hospital-centered to preventive, proactive, evidence-based, person-centered and focused on well-being rather than disease. Approaches that partner technology-based solutions with bio-behavioral health research are supported by multiple agencies of the federal government including the National Science Foundation (NSF) and the National Institutes of Health (NIH). The purpose of this program is to develop next generation health care solutions and encourage existing and new research communities to focus on breakthrough ideas in a variety of areas of value to health, such as sensor technology, networking, information and machine learning technology, decision support systems, modeling of behavioral and cognitive processes, as well as system and process modeling. Effective solutions must satisfy a multitude of constraints arising from clinical/medical needs, social interactions, cognitive limitations, barriers to behavioral change, heterogeneity of data, semantic mismatch and limitations of current

cyber-physical systems. Two classes of proposals will be considered in response to this solicitation. Exploratory Projects (EXP): One or more investigators spanning 1 to 3 years. Integrative Projects (INT): Multi-disciplinary teams spanning 1 to 4 years. As detailed in this solicitation, appropriate scientific areas of investigations may be related to any of the participating funding organizations. Questions concerning a particular project's focus, direction and relevance to a participating funding organization should be addressed to the appropriate person in the list of agency contacts found in section VIII of the solicitation.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf13543

Research Training Groups in the Mathematical Sciences

Funding Opportunity Number: 14-585

Application Deadline: October 14, 2014

Description: The long-range goal of the Research Training Groups in the Mathematical Sciences (RTG) program is to strengthen the nation's scientific competitiveness by increasing the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences. The RTG program supports efforts to improve research training by involving undergraduate students, graduate students, postdoctoral associates, and faculty members in structured research groups centered on a common research theme. Research groups supported by RTG must include vertically-integrated activities that span the entire spectrum of educational levels from undergraduates through postdoctoral associates.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14585

Paleo Perspectives on Climate Change

Funding Opportunity Number: 13-576

Application Deadline: October 15, 2014

Description: The goal of research funded under the interdisciplinary P2C2 solicitation is to utilize key geological, chemical, atmospheric (gas in ice cores), and biological records of climate system variability to provide insights into the mechanisms and rate of change that characterized Earth's past climate variability, the sensitivity of Earth's climate system to changes in forcing, and the response of key components of the Earth system to these changes. Important scientific objectives of P2C2 are to: 1) provide comprehensive paleoclimate data sets that can serve as model test data sets analogous to instrumental observations; and 2) enable transformative syntheses of paleoclimate data and modeling outcomes to understand the response of the longer-term and higher magnitude variability of the climate system that is observed in the geological and cryospheric records.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf13576

Geospace Environment Modeling

Funding Opportunity Number: 10-510

Application Deadline: October 15, 2014

Description: GEM is a broad-based, community-initiated research program on the physics of the Earth's magnetosphere and the coupling of the magnetosphere to the atmosphere and to the solar wind. The purpose of the GEM program is to support basic research into the dynamical and structural properties of geospace, leading to the construction of a global Geospace General Circulation Model (GGCM) with predictive capability. The exact structure of a GGCM may be modular or may consist of a "spine" such as a global MDH model with links to special modules. The strategy for achieving GEM goals is to create a series of Focus Groups, each of which addresses a specific problem in understanding and modeling the magnetosphere. More information on the structure of the GEM program, the currently active Focus Groups, and the mechanism for creating a new Focus Group can be found at the GEMwiki web site. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf10510

Mathematical Sciences Postdoctoral Research Fellowships

Funding Opportunity Number: 14-582

Application Deadline: October 15, 2014

Description: The purpose of the Mathematical Sciences Postdoctoral Research Fellowships (MSPRF) is to support future leaders in mathematics and statistics by facilitating their participation in postdoctoral research environments that will have maximal impact on their future scientific development. There are two options for awardees: Research Fellowship and Research Instructorship. Awards will support research in areas of mathematics and statistics,

including applications to other disciplines. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14582

Discovery Research K-12

Funding Opportunity Number: 13-601

Application Deadline: October 16, 2014

Description: The Discovery Research K-12 program (DRK-12) seeks to significantly enhance the learning and teaching of science, technology, engineering and mathematics (STEM) by preK-12 students and teachers, through research and development of innovative resources, models and tools (RMTs). Projects in the DRK-12 program build on fundamental research in STEM education and prior research and development efforts that provide theoretical and empirical justification for proposed projects. Teachers and students who participate in DRK-12 studies are expected to enhance their understanding and use of STEM content, practices and skills. DRK-12 invites proposals that address immediate challenges that are facing preK-12 STEM education as well as those that anticipate radically different structures and functions of pre-K 12 teaching and learning. The DRK-12 program has four major research and development strands: (1) Assessment; (2) Learning; (3) Teaching; and (4) Implementation Research. The program recognizes that there is some overlap among the strands. Proposals may address more than one strand. For example, projects in the Learning Strand may also include assessments of student learning, and/or support for teachers and plans for larger dissemination and use. Likewise, the Teaching Strand has a specific focus on RMTs for teacher education and professional development, but these are often based on a particular curriculum or set of instructional materials or tools. The Implementation Research strand that replaces the Scale-up strand in the previous solicitation might potentially address any or a combination of the other three strands. The program supports three types of projects: (1) Exploratory, (2) Full Design and Development, and (3) Conferences, Workshops, and Syntheses. All three types of projects apply to each of the four DRK-12 strands.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf13601

Louis Stokes Alliances for Minority Participation (LSAMP)

Funding Opportunity Number: 12-564

Application Deadline: October 17, 2014

Description: The LSAMP program assists universities and colleges in diversifying the STEM workforce through their efforts at significantly increasing the numbers of students successfully completing high quality degree programs in science, technology, engineering and mathematics (STEM) disciplines. Particular emphasis is placed on transforming STEM education through innovative recruitment and retention strategies and experiences in support of groups historically under-represented in STEM discipline: African-Americans, Alaskan Natives, American Indians, Hispanic Americans, Native Hawaiians, and Native Pacific Islanders. The LSAMP program provides funding for: Alliances (New, Mid-Level, Senior-Level, B2B) Bridge to the Doctorate (BD) Activity Broadening Participation Research (BPR) in STEM Education. LSAMP baccalaureate degree recipients are eligible for continued support for up to two additional years of STEM post baccalaureate study through the Bridge to the Doctorate (BD) Activity. BD participants are expected to transition through graduate studies and into the professoriate and/or STEM workforce. The Broadening Participation Research (BPR) in STEM Education track provides support for knowledge generation research projects that seek to create and study new theory-driven models and innovations related to the participation and success of diverse groups in STEM undergraduate education. BPR projects add new research-based strategies and models to broadening participation in STEM and increase the capacity of scholars to conduct this type of research.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf12564

Advancing Digitization of Biodiversity Collections

Funding Opportunity Number: 13-569

Application Deadline: October 17, 2014

Description: This program seeks to enhance and expand the national resource of digital data documenting existing vouchered biological and paleontological collections and to advance scientific knowledge by improving access to digitized information (including images) residing in vouchered scientific collections across the United States. The information associated with various collections of organisms, such as geographic, paleogeographic and stratigraphic distribution, environmental habitat data, phenology, information about associated organisms, collector field notes, and tissues and molecular data extracted from the specimens, is a rich resource providing the baseline from which to further biodiversity research and provide critical information about existing gaps in our knowledge

of life on earth. The national resource is structured at three levels: a central coordinating organization, a series of thematic networks based on an important research theme, and the physical collections. The national resource builds upon a sizable existing national investment in curation of the physical objects in scientific collections and contributes vitally to scientific research and technology interests in the United States. It will become an invaluable tool in understanding contemporary biological issues and challenges.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf13569

Arctic Research Opportunities

Funding Opportunity Number: 14-584

Application Deadline: October 21, 2014

Description: The National Science Foundation (NSF) invites investigators at U.S. organizations to submit proposals to conduct research about the Arctic. Arctic research includes field and modeling studies, data analysis, and synthesis about the arctic region. The goal of the NSF Section for Arctic Sciences, Division of Polar Programs (PLR), is to gain a better understanding of the Arctic's physical, biological, geological, chemical, social and cultural processes; the interactions of oceanic, terrestrial, atmospheric, biological, social, cultural, and economic systems; and the connections that define the Arctic. The Arctic Sciences and other NSF programs support projects that contribute to the development of the next generation of researchers and scientific literacy for all ages through education, outreach, and broadening participation in science, technology, engineering, and mathematics. Program representatives from polar and other non-polar NSF programs that support arctic research coordinate across NSF, including joint review and funding of arctic proposals and mutual support of special projects with high logistical costs. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14584

Centers for Chemical Innovation

Funding Opportunity Number: 14-583

Application Deadline: October 21, 2014

Description: The Centers for Chemical Innovation (CCI) Program supports research centers focused on major, long-term fundamental chemical research challenges. CCIs that address these challenges will produce transformative research, lead to innovation, and attract broad scientific and public interest. CCIs are agile structures that can respond rapidly to emerging opportunities and make full use of cyberinfrastructure to enhance collaborations. CCIs may partner with researchers from industry, government laboratories and international organizations. CCIs integrate research, innovation, education, and informal science communication and include a plan to broaden participation of underrepresented groups. Only organizations receiving Phase I awards in FY 2012 and renewals of Phase II CCIs initiated in FY 2010 are eligible to request Phase II funding in FY 2015.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14583

Division of Physics: Investigator-Initiated Research Projects

Funding Opportunity Number: 14-576

Application Deadline: October 22, 2014

Description: The Division of Physics (PHY) supports physics research and education in the nation's colleges and universities across a broad range of physics disciplines that span scales of space and time from the largest to the smallest and the oldest to the youngest. The Division is comprised of disciplinary programs covering experimental and theoretical research in the following major subfields of physics: Accelerator Science; Atomic, Molecular, Optical and Plasma Physics; Computational Physics; Elementary Particle Physics; Gravitational Physics; Nuclear Physics; Particle Astrophysics; Physics of Living Systems; Quantum Information Science; Education and Interdisciplinary Research. Additional information: The Physics Division strongly encourages single proposal submission for possible co-review rather than multiple submissions of proposals with slight differences to several programs. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14576

Physics of Living Systems

Funding Opportunity Number: PD-14-7246

Application Deadline: October 22, 2014

Description: The program "Physics of Living Systems" (PoLS) targets synergy of theoretical and experimental research exploring the most fundamental physical processes that living systems utilize to perform their functions in dynamic and diverse environments. The focus of the research proposals should be on understanding basic physical

principles that underlie biological function. Proposals that use physics equipment only as a tool to study biological questions are of VERY low priority. PoLS encourage research that emphasizes the physical principles of organization and function of living systems, including the exploration of artificial life forms and how life began. While the problems under study must be important to advancing our understanding of the living world in a quantitative way, particular emphasis will be placed on those projects in which lessons learned from the biological application also expand the intellectual range of physics.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6673

Improving Undergraduate STEM Education

Funding Opportunity Number: 14-588

Application Deadline: October 24, 2014

Description: The Improving Undergraduate STEM Education (IUSE) program invites proposals that address immediate challenges and opportunities that are facing undergraduate STEM education, as well as those that anticipate new structures (e.g. organizational changes, new methods for certification or credentialing, course re-conception, cyber-learning, etc.) and new functions of the undergraduate learning and teaching enterprise. The IUSE program recognizes and respects the variety of discipline-specific challenges and opportunities facing STEM faculty as they strive to incorporate results from educational research into classroom practice and work with education research colleagues and social science learning scholars to advance our understanding of effective teaching and learning. Toward these ends the program features two tracks: (1) Engaged Student Learning and (2) Institutional and Community Transformation. Two tiers of projects exist within each track: (i) Exploration and (ii) Design and Development. These tracks will entertain research studies in all areas. In addition, IUSE also offers support for a variety of focused innovative projects that seek to identify future opportunities and challenges facing the undergraduate STEM education enterprise. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14588

Historically Black Colleges and Universities - Undergraduate Program

Funding Opportunity Number: 14-513

Application Deadline: October 27, 2014

Description: Support is available for Targeted Infusion Projects, Broadening Participation Research Projects, Research Initiation Awards, Implementation Projects or Achieving Competitive Excellence Implementation Projects, and other funding opportunities. Targeted Infusion Projects (TIP) provide support to achieve a short-term, well-defined goal to innovate or improve the quality of undergraduate STEM education at HBCUs. The Broadening Participation Research (BPR) in STEM Education track provides support for research projects that seek to create and study new theory-driven models and innovations related to the participation and success of underrepresented groups in STEM undergraduate education. Research Initiation Awards (RIA) provide support for STEM faculty at HBCUs to pursue research at the home institution or at an NSF-funded research center, a research intensive institution or a national laboratory. Implementation Projects provide support to design, implement, study, and assess comprehensive institutional efforts to increase the number of students receiving undergraduate degrees in STEM and enhance the quality of their preparation by strengthening STEM education and research. Within this track, Achieving Competitive Excellence (ACE) Implementation Projects are intended for HBCUs with exemplary achievements and established institutionalized foundations from previous Implementation Project grants.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14513

NSF/Intel Partnership on Cyber-Physical Systems Security and Privacy

Funding Opportunity Number: 14-571

Application Deadline: October 28, 2014

Description: Specifically, this solicitation aims to foster a research community committed to advancing research and education at the confluence of cybersecurity, privacy, and cyber-physical systems, and to transitioning its findings into engineering practice. To achieve these goals, NSF and Intel will together host an Ideas Lab to identify and develop novel ideas at the intersection of cyber-physical systems, cybersecurity, and privacy, and assist in the establishment of research partnerships. Concepts from the Ideas Lab can be submitted in response to this solicitation as (a) NSF/Intel Synergy projects, which must offer a significant advance in the science, engineering, and/or technology of protecting cyber-physical systems, taking into consideration the broader policy, economic, and socio-technical environment in which these systems operate; or (b) NSF Breakthrough projects, which seek to make more targeted, narrowly focused advances in science, engineering, and/or technology of protecting cyber-

physical systems while at the same time fostering the creation and development of a CPS security and privacy research community. Participation in the Ideas Lab is not a prerequisite for submitting a Synergy or Breakthrough project proposal. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14571

Theoretical Gravitational Physics

Funding Opportunity Number: PD-12-1244

Application Deadline: October 29, 2014

Description: The Gravitational Physics program supports research at the frontiers of science aimed towards answering questions about the nature of space and time, the gravitational attraction at atomically small and cosmological large distances and the use of gravitational waves to explore the universe. The Theoretical Gravitational Physics program supports research on classical and quantum gravity theory, including gravitational wave source simulations and other phenomena associated with strong field gravity and the interface between gravitation and quantum mechanics. This includes formulating new approaches for theoretical, computational, and experimental research that explore the fundamental laws of physics and the behavior of physical systems and, in some cases, interpreting the results of experiments. The effort also includes a considerable number of interdisciplinary grants. In addition, the program supports infrastructure activities such as short- and long-term visitor programs, workshops, and research centers involving the participation of external scientists from universities, national laboratories, and industry, as well as graduate students and postdoctoral fellows. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503539

Education and Interdisciplinary Research

Funding Opportunity Number: PD-11-9134

Application Deadline: October 29, 2014

Description: Supports activities in conjunction with NSF-wide programs such as Faculty Early Career Development (CAREER), Research Experiences for Undergraduates (REU), and programs aimed at women, minorities, and persons with disabilities. Further information about all of these programs and activities is available in the Crosscutting Investment Strategies section of the NSF Guide to Programs. The program also supports activities that seek to improve the education and training of physics students (both undergraduate and graduate), such as curriculum development or physics education research directed towards upper-level or graduate physics courses, and activities that are not included in specific programs elsewhere within NSF. The program supports research at the interface between physics and other disciplines and extending to emerging areas. Broadening activities related to research at the interface with other fields, possibly not normally associated with physics, also may be considered. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5610

LIGO Research Support

Funding Opportunity Number: PD-13-1252

Application Deadline: October 29, 2014

Description: The Gravitational Physics program supports research at the frontiers of science aimed towards answering questions about the nature of space and time, the gravitational attraction at atomically small and cosmological large distances and the use of gravitational waves to explore the universe. The LIGO Research Support program oversees the commissioning and operation of the Laser Interferometer Gravity Wave Observatory (LIGO), and provides support for LIGO users and other experimental investigations in gravitational physics and related areas. This includes tasks that range from instrument science, data analysis and detector characterization to source population calculations and the connection between the gravitational waves and the electromagnetic and neutrino signatures of astrophysical events. In addition, the program supports infrastructure activities such as short- and long-term visitor programs, workshops, and research centers involving the participation of external scientists from universities, national laboratories, and industry, as well as graduate students and postdoctoral fellows. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504855

Theoretical Nuclear Physics

Funding Opportunity Number: PD-12-1285

Application Deadline: October 29, 2014

Description: The nuclear theory program encompasses the structure and reactions of nuclei, and of hadrons in few-nucleon and nuclear environments, and the quark/gluon substructure expressed by QCD. Supported research

includes contributions to broad theoretical advances as well as model building and applications to experimental programs at facilities such as NSCL, RHIC and Jefferson Laboratory, and to astrophysical phenomena. This includes formulating new approaches for theoretical, computational, and experimental research that explore the fundamental laws of physics and the behavior of physical systems; formulating quantitative hypotheses; exploring and analyzing the implications of such hypotheses analytically and computationally; and, in some cases, interpreting the results of experiments. Some awards are co-funded with other programs in the Physics Division and in other divisions. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503534

Experimental Elementary Particle Physics

Funding Opportunity Number: PD-14-1221

Application Deadline: October 29, 2014

Description: Apply to NSF 14-576. At the NSF, particle physics is supported by four programs within the Division of Physics: (1) the Theory program, which includes fundamental research on the forces of nature and the early history of the universe as well as support for the experimental program by providing guidance and analysis for high energy experiments; (2) the Elementary Particle Physics (EPP) program, which supports particle physics at accelerators; (3) the Particle Astrophysics (PA) program, which supports non-accelerator experiments; and (4) the new Accelerator Science program, which supports research at universities into the educational and discovery potential of basic accelerator physics. EPP also supports advances in detector development and new methods of utilizing distributed computing in support of collaborative research, for example, grid development, both nationally and internationally. The program also engages K-12 educators, who participate in experiments with university scientists, staff and students. The Physics Division has replaced its annual Dear Colleague Letter (the most recent version was NSF 12-068) with a solicitation: Division of Physics: Investigator-Initiated Research Projects (NSF 14-576). The solicitation follows most of the requirements in the Grant Proposal Guide, but has additional requirements. These relate primarily to proposers who anticipate having multiple sources of support, and proposals involving significant instrumentation development. This solicitation also has deadlines instead of target dates. ALL proposals not submitted this or another solicitation (such as CAREER) will be returned without review. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5624

Experimental Atomic Molecular and Optical Physics

Funding Opportunity Number: PD-14-1241

Application Deadline: October 29, 2014

Description: Apply to NSF 14-576. The Atomic Molecular and Optical Physics program encompasses four sub-areas of this broad discipline: Precision Measurements, Atomic and Molecular Dynamics, Atomic and Molecular Structure, and Optical Physics. Research supported in the first three sub-areas includes activities in quantum control, cooling and trapping of atoms and ions, low-temperature collision dynamics, the collective behavior of atoms in weakly interacting gases (Bose-Einstein Condensates and dilute Fermi degenerate systems), precision measurements of fundamental constants, and the effects of electron correlation on structure and dynamics. In Optical Physics, support is provided in areas such as nonlinear response of isolated atoms to intense, ultra-short electromagnetic fields, the atom-cavity interaction at high fields, and quantum properties of the electromagnetic field. The Physics Division has replaced its annual Dear Colleague Letter (the most recent version was NSF 12-068) with a solicitation: Division of Physics: Investigator-Initiated Research Projects (NSF 14-576). The solicitation follows most of the requirements in the Grant Proposal Guide, but has additional requirements that relate primarily to proposers who anticipate having multiple sources of support, and proposals involving significant instrumentation development. The solicitation also has deadlines instead of target dates. All proposals submitted to the Physics Division that are not governed by another solicitation (such as CAREER) should be submitted to this solicitation; otherwise they will be returned without review. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13622

Particle Astrophysics

Funding Opportunity Number: PD-14-1643

Application Deadline: October 29, 2014

Description: Apply to NSF 14-576. The Particle Astrophysics program supports university research in many areas of particle astrophysics, including the study of ultra-high energy particles reaching Earth from beyond our atmosphere, experiments or research and development projects for underground facilities and non-accelerator-based

experiments studying the properties of neutrinos. Currently supported activities include: ultra-high energy cosmic-ray, gamma-ray and neutrino studies; the study of solar, underground and reactor neutrino physics; neutrino mass measurements; searches for the direct and indirect detection of Dark Matter; searches for neutrino-less double beta decay; and studies of Cosmology and Dark Energy. It should be noted that proposals that are submitted to the PA program and are requesting in excess of \$1,000,000/year may, at the discretion of the Program Officer, be subjected to an additional level of scrutiny in the form of a cost review that would take place before the annual PA panel that meets to discuss all of the submitted proposals. The Physics Division has replaced its annual Dear Colleague Letter (the most recent version was NSF 12-068) with a solicitation: Division of Physics: Investigator-Initiated Research Projects (NSF 14-576). The solicitation follows most of the requirements in the Grant Proposal Guide, but has additional requirements that relate primarily to proposers who anticipate having multiple sources of support, and proposals involving significant instrumentation development. The solicitation also has deadlines instead of target dates. All proposals submitted to the Physics Division that are not governed by another solicitation (such as CAREER) should be submitted to this solicitation; otherwise they will be returned without review. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5633

Experimental Nuclear Physics

Funding Opportunity Number: PD-14-1232

Application Deadline: October 29, 2014

Description: Apply to NSF 14-576. The experimental nuclear physics program supports research at the frontiers of nuclear science, including: properties and behavior of nuclei and nuclear matter under extreme conditions, and/or as they relate to astrophysical phenomena; the quark-gluon basis for the structure and dynamics of hadrons and nuclei; phase transitions of nuclear matter from normal nuclear density and temperature to the predicted high-temperature quark-gluon plasma; and basic interactions and fundamental symmetries. This research involves many venues, including low-energy to multi-GeV electrons and photons; intermediate-energy light ions; low-energy to relativistic heavy ions, including radioactive beams; cold and ultra-cold neutrons; as well as non-accelerator-based experiments. The program supports university user groups executing experiments at a large number of laboratories in the United States and abroad, and a national user facility: the National Superconducting Cyclotron Laboratory, a superconducting, heavy-ion cyclotron facility at Michigan State University. The program also supports smaller accelerator facilities, such as those at Florida State University and the University of Notre Dame. Some awards are co-funded with other programs in the Physics Division and in other divisions. The Physics Division has replaced its annual Dear Colleague Letter (the most recent version was NSF 12-068) with a solicitation: Division of Physics: Investigator-Initiated Research Projects (NSF 14-576). The solicitation follows most of the requirements in the Grant Proposal Guide, but has additional requirements that relate primarily to proposers who anticipate having multiple sources of support, and proposals involving significant instrumentation development. The solicitation also has deadlines instead of target dates. All proposals submitted to the Physics Division that are not governed by another solicitation (such as CAREER) should be submitted to this solicitation; otherwise they will be returned without review. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5627

Theoretical Atomic, Molecular, and Optical Physics

Funding Opportunity Number: PD-11-1284

Application Deadline: October 29, 2014

Description: The Theoretical Atomic, Molecular, and Optical Physics (TAMOP) program supports theoretical and computational research in all areas of atomic structure, the molecular structure of small molecules, electron, and atomic collisions, photoionization and photo-detachment of electrons from atoms and small molecules, time-dependent interactions with atoms and small molecules, quantum optics, ultra-cold phenomena in Bose and Fermi gases, and quantum information. Investigations primarily directed toward a theoretical understanding of larger molecules or condensed matter systems should be directed toward the appropriate programs in the Division of Chemistry or the Division of Materials Research. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503273

USAID

USAID Better Outcomes for Children and Youth in Eastern and Northern Uganda

Funding Opportunity Number: RFA-617-14-000009

Application Deadline: October 14, 2014

Description: The United States Agency for International Development (USAID) Uganda is seeking applications to

fund one or more organizations through a five-year Cooperative Agreement to improve health, nutrition, education, and psychosocial wellbeing, and reduce abuse, exploitation and neglect among children and youth orphaned and made vulnerable by HIV (OVC) and other adversities in Uganda, and particularly in the Eastern and Northern Regions; as described in Section I of this RFA. The authority for the RFA is found in the Foreign Assistance Act of 1961, as amended. <http://www.grants.gov/web/grants/search-grants.html>

USAID/Uganda Regional Health Integration to Enhance Services in East Central Uganda

Funding Opportunity Number: RFA-617-14-000013

Application Deadline: October 17, 2014

Description: The United States Agency for International Development (USAID) Uganda is seeking applications to fund one or more organizations through a five-year Cooperative Agreement to support Regional Health Integration to Enhance Services in East Central Uganda as described in Section I of this RFA. The authority for the RFA is found in the Foreign Assistance Act of 1961, as amended. Subject to the availability of funds, USAID intends to provide up to \$57,000,000, to be allocated over the five-year period. USAID reserves the right to fund any or none of the applications submitted and expects one award as a result of this solicitation; however, more than one award may result. This is a full and open competition, under which any type of organization, large or small, commercial (for-profit) firms, faith-based, and non-profit organizations in partnerships or consortia, are eligible to compete. In accordance with the Federal Grants and Cooperative Agreement Act, USAID encourages competition in order to identify and fund the best possible application(s) to achieve program objectives.

<http://www.grants.gov/web/grants/search-grants.html?keywords=RFA-617-14-000013>

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