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DoR Communicator - November 2014

Division of Research, Florida International University

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November 2014 Issue

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FIU Chapter of National Academy of Inventors will host discussion with Florida entrepreneurs

The FIU National Academy of Inventors Chapter and the FIU Division of Research will host a panel discussion with Florida entrepreneurs. The panelists will share their experiences in creating, funding and identifying resources for startup companies. The panelists include:

Stephanie Warrington, MBA, MHA



Ms. Warrington is the Co-Founder and past President of a spinal implant development company, TrueMotion Spine, Inc., and a Principal with Synogen. She has extensive health care industry and medical technology

start-up experience both in the United States and the United Kingdom. Her technology commercialization experience encompasses university-based bioengineering and research management. She has experience with technology evaluation, licensing, market research, business strategy and plan development, and all aspects of starting and running a technology-based business. Prior to launching TrueMotion Spine, she was a co-founder and vice president of corporate development at Xhale, Inc., a Synogen portfolio company. Ms. Warrington has also served as a key founding or support team member in the launch and growth of several med-tech start-up companies.

Carlos Hondal, Founder and C.E.O. of XDG Technologies, LLC

Mr. Hondal is an executive in financial, risk and operational environments. He is also the founder and principal of CMH Advisors. His specialty is in governance, risk management and compliance. He has extensive experience in upgrading and restructuring varied departments and divisions within entities of different



sizes and structures. Mr. Hondal has been a general partner and early-stage investor in venture capital investment funds and initial public offerings. He received his Master's degree in Accounting from FIU.

Alison Tanner *Entrepreneur in Residence* *Florida Institute of Commercialization of Research*

Ms. Tanner is responsible for research partner institutions and projects throughout southeast Florida. She has extensive experience executing the kinds of initiatives that propel companies more rapidly towards their strategic goals. Prior to joining the Institute, as head of Tanner Growth, she worked with companies' leaders to identify promising and strategically relevant new directions, formulate sound plans to move forward in those directions and to execute de novo launches, mergers or acquisitions, strategic alliances and joint ventures.



The event will be held in the MARC Pavilion on November 20, 2014 from 5:30 to 8 pm. Food and beverages will be provided. Kindly RSVP at https://fiu.qualtrics.com/SE/?SID=SV_9STOcg3EI7SOJCJ

For questions please contact [Elizabeth Garami](mailto:Elizabeth.Garami@fiu.edu) at 305-348-2638

Upcoming Events

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, 3:30 to 4:30 pm, AHC4 #101, “Mechanisms of Genome Instability Caused by Simple DNA Repeats”**, presented by [Sergei Mirkin](#), Professor and Department Chair, White Family Chair in Biology, Tufts University. This lecture will concentrate on the mechanisms of inherent genome instability, which occurs without external DNA damage and leads to numerous hereditary diseases in humans, as well as to genome rearrangements in cancer. Sergei is primarily interested in genetic instabilities caused by simple DNA repeats. This event will be hosted by Yuan Liu as part of the Biomolecular Sciences Institute (BSI) Lecture Series.
- **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 and co-sponsored by the Division of Research. Limited seating (75), for more information contact bsi@fiu.edu or go to: <http://sish.fiu.edu/centers-institutes/biomolecular-sciences-institute/archived-lectures/>
- **November 19, TBD, 3:30 to 4:45pm, “Tips to Tenure & Promotion.”** This presentation will provide faculty with perspectives and advice on the tenure and promotion process, and will be followed by an interactive forum for faculty discussion and questions. Specific details are to be forthcoming for this workshop and available at <http://mentor.fiu.edu>
- **November 20, 5:30 to 8 pm, MARC Pavilion, “Panel discussion with Florida entrepreneurs.”** Join us and get an insider’s look into creating a startup company by meeting company’s executives, university inventors and entrepreneurs-in-residence. They will share their experiences in starting, building a team, funding, and identifying resources for startup companies. In addition to the panel discussion there will be networking opportunities. Food and beverages will be provided. Kindly RSVP at https://fiu.qualtrics.com/SE/?SID=SV_9STOcg3EI7SOJCI
- **November 21, 11am, AHC3 205, “Genomic aptamers and ribozymes: from discovery to biological function.”** Richard Smith, Associate Professor and Vice Chair of Pharmaceutical Sciences at UC Irvine. This event will be hosted by Yuk-Ching Tse-Dinh as part of the Biomolecular Sciences Institute (BSI) Lecture Series and cosponsored by the Chemistry & Biochemistry Seminar Series.

December 2014

- **December TBD, “Workshop with [Dr. William Vega](#).”** This event is co- sponsored by the Faculty Mentor Program and Division of Research. Specific details will be forthcoming for this workshop and available at <http://mentor.fiu.edu>
- **December 5, 11am, AHC3 205, “DNA Repair and Autoimmunity,”** by [Joann Sweasy](#) from Yale University School of Medicine. This event will be hosted by Yuan Liu as part of the Biomolecular Sciences Institute (BSI) Lecture Series and cosponsored by the Chemistry & Biochemistry Seminar Series.

January 2015

- **January 9, 2015, 9:00am to 4:00pm, MARC Pavilion, 1st Women, Gender and Violence Conference, “Gender, Culture and Violence.”** The Center for Women's and Gender Studies will be bringing together experts in the area of violence against women to give up-to-date knowledge about violence issues and to develop connections between practitioners and scholars addressing violence in our community.

Awards Received

Florida International University researchers were awarded \$11,072,160 in September 2014. Listed below is a summary of awards received for the month of September.

PI: Malek Adjouadi
ELEC AND COMPUTER ENG
Award Action Type: Continuation
AWARDING SPONSOR: University of Texas El Paso
TITLE: BPC-AE: Computing Alliance of Hispanic-Serving Institutions (CAHSI) Renewal **AWARD:** \$ 37,601

PI: Malek Adjouadi
ELEC AND COMPUTER ENG
Award Action Type: Continuation
AWARDING SPONSOR: University of Texas El Paso
TITLE: BPC-AE: Computing Alliance of Hispanic-Serving Institutions (CAHSI) **AWARD:** \$ 19,000

PI: Heidi L Alvarez
CIARA
Award Action Type: Pre-Award
AWARDING SPONSOR: University of Chicago
TITLE: Open Science Data Cloud(OSDC)PIRE:Training and Workshops **AWARD:** \$ 32,760

PI: Heidi L Alvarez
CIARA
Award Action Type: Pre-Award
AWARDING SPONSOR: University of Chicago
TITLE: Subproject: Open Science Data Cloud(OSDC)PIRE:Training and Workshops **AWARD:** \$ 9,000

PI: Joann Arnowitz
JEWISH MUSEUM OF FLORIDA-FIU
Award Action Type: Initial
AWARDING SPONSOR: Florida Division of Cultural Affairs
TITLE: General Operating Support for JMOF 2014-2015 **AWARD:** \$ 143,017

PI: Richard L Beaulaurier
SCHOOL OF SOCIAL WORK
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Health
TITLE: Institute on Aging and Health Appropriation: Qualitative **AWARD:** \$ 96,050

PI: Mahadev G Bhat
EARTH AND ENVIRONMENT
Award Action Type: Continuation
AWARDING SPONSOR: National Institute of Food & Agriculture
TITLE: Florida Caribbean Consortium for Agriculture Education and Hispanic **AWARD:** \$ 840,000

PI: Eric J Bishop-Von Wettberg
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of California Davis
TITLE: A reverse-introgression and community genomics strategy to enrich **AWARD:** \$ 42,721

PI: Eric J Bishop-Von Wettberg

BIOLOGY

Award Action Type: Supplemental

AWARDING SPONSOR: University of California Davis

TITLE: Deducing the genomic footprint and functional impact of chickpea

AWARD: \$ 247,305

PI: Kevin M Boswell

BIOLOGY

Award Action Type: Initial

AWARDING SPONSOR: University of Miami

TITLE: Examining the status and distribution of reef fish spawning

AWARD: \$ 90,263

PI: Eric T Brewe

COE TEACHING AND LEARNING

Award Action Type: Increase

AWARDING SPONSOR: National Science Foundation

TITLE: Transforming Modeling Instruction: Developing Curriculum Materials

AWARD: \$ 9,188

PI: Eric T Brewe

COE TEACHING AND LEARNING

Award Action Type: Increase

AWARDING SPONSOR: National Science Foundation

TITLE: INSPIRE Type 1: Investigating Retention and Persistence with Network Analysis

AWARD: \$ 67,273

PI: Luther G Brewster

COM HUMANITIES HLTH AND SOC

Award Action Type: Increase

AWARDING SPONSOR: Opa-locka Community Development Corp

TITLE: Children's Trust Placed Based Services Partnership- Opa-Locka CDC & GFF-NHELP **AWARD:** \$ 40,500

PI: Kathryn Elizabeth Brogan

DIETETICS AND NUTRITION

Award Action Type: Continuation

AWARDING SPONSOR: Wayne State University

TITLE: Interventionist Procedures for Adherence to Weight Loss

AWARD: \$ 21,623

PI: Ellen L Brown

NURSING PHD PROGRAM

Award Action Type: Initial

AWARDING SPONSOR: Florida Department of Health

TITLE: Institute on Aging and Health Appropriation: Dashboard

AWARD: \$ 142,995

PI: Bogdan O.P. Carbunar

COMPUTER INFO SCIENCES

Award Action Type: Initial

AWARDING SPONSOR: National Science Foundation

TITLE: EAGER: Digital Interventions for Reducing Social Networking

AWARD: \$ 214,540

PI: Bogdan O.P. Carbunar

COMPUTER INFO SCIENCES

Award Action Type: Initial

AWARDING SPONSOR: National Science Foundation

TITLE: EAGER: Digital Interventions for Reducing Social Networking

AWARD: \$ 2,000

PI: Catherine Camille Coccia
DIETETICS AND NUTRITION
Award Action Type: Initial
AWARDING SPONSOR: Academy of Nutrition and Dietetics
TITLE: Tweeting Before Breakfast: Improving Family Breakfast Habits **AWARD:** \$ 5,000

PI: Elizabeth D Cramer
COE TEACHING AND LEARNING
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Department of Education
TITLE: Project PREPARE: Preparing Rigorous and Effective Professionals as Autism **AWARD:** \$ 72,847

PI: Elizabeth D Cramer
COE TEACHING AND LEARNING
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Department of Education
TITLE: Project PREPARE: Preparing Rigorous and Effective Professionals as Autism **AWARD:** \$ 177,128

PI: Carol E Damian
FROST ART MUSEUM
Award Action Type: Initial
AWARDING SPONSOR: Florida Division of Cultural Affairs
TITLE: General Support Program 2014-2015 **AWARD:** \$ 149,638

PI: Paulo H De Hendonca Chaves
COM MEDICINE
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Health
TITLE: Institute on Aging and Health Appropriation **AWARD:** \$ 84,698

PI: Hai Deng
ELEC AND COMPUTER ENG
Award Action Type: Increase
AWARDING SPONSOR: Defense Engineering Corporation
TITLE: Innovative Concepts and Approaches with Multiple-Input **AWARD:** \$ 230,249

PI: George S Dulikravich
MECHANICAL AND MAT ENGINEERING
Award Action Type: Increase
AWARDING SPONSOR: Georgia Institute of Technology
TITLE: Multi-Objective, Multi-Disciplinary Design Optimization of **AWARD:** \$ 34,936

PI: Bilal El-zahab
MECHANICAL AND MAT ENGINEERING
Award Action Type: Increase
AWARDING SPONSOR: CIMIT Center for Integration of Medicine
TITLE: Blood Lipid Profiling in an Acoustic-Driven Portable Lab-On-Chip Device **AWARD:** \$ 1,000

PI: Fatma G Ercanli-Huffman
DIETETICS AND NUTRITION
Award Action Type: Initial
AWARDING SPONSOR: Academy of Nutrition and Dietetics
TITLE: Nadine Mikati Scholarship **AWARD:** \$ 5,000

PI: Irma B Fernandez
OFFICE OF COMMUNITY ENGAGEMENT
Award Action Type: Increase
AWARDING SPONSOR: FIU Foundation
TITLE: The Education Effect
AWARD: \$ 21,976

PI: Brian Fonseca
ARC APPLIED RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: CACI International Inc
TITLE: FIU-SOUTHCOM Academic Roundtable Series/ Public Opinion Analysis
AWARD: \$ 18,526

PI: Rebecca Friedman
SIPA
Award Action Type: Increase
AWARDING SPONSOR: European Commission
TITLE: Miami-Florida European Center of Excellence
AWARD: \$ 9,223

PI: Rebecca Friedman
SIPA
Award Action Type: Initial
AWARDING SPONSOR: European Commission
TITLE: EU Centers of Excellence
AWARD: \$ 118,239

PI: Zhaohui J Fu
LIBRARY OPERATIONS
Award Action Type: Initial
AWARDING SPONSOR: Miami-Dade County MPO
TITLE: Transportation Outreach Planner
AWARD: \$ 120,000

PI: Karen S Fuller, MUSIC
Award Action Type: Initial
AWARDING SPONSOR: Miami-Dade County Cultural Affairs
TITLE: FIU School of Music Concert Season
AWARD: \$ 30,000

PI: Kenneth G Furton
PROVOST AND EXEC VP ACAD AFF
Award Action Type: Initial
AWARDING SPONSOR: FLIR Detection Inc
TITLE: Evaluation of the Griffin 844
AWARD: \$ 20,000

PI: Daniel Gann
LIBRARY OPERATIONS
Award Action Type: Initial
AWARDING SPONSOR: National Park Service
TITLE: The South Florida Caribbean Inventory and Monitoring Network
AWARD: \$ 165,812

PI: Seckin Gokaltun
ARC APPLIED RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: U.S. Department of Energy
TITLE: Development of Reduced Order Model for Reacting Gas-Solid
AWARD: \$ 186,579

PI: Seckin Gokaltun
MECHANICAL AND MAT ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: U.S. Department of Energy
TITLE: Subproject: Development of Reduced Order Model for Reacting Gas-Solid **AWARD:** \$ 45,173

PI: Paulo A Graziano
CENTER FOR CHILDREN AND FAM
Award Action Type: Continuation
AWARDING SPONSOR: Institute of Education Sciences
TITLE: Development of a Kindergarten Transitional Program for Preschool **AWARD:** \$ 577,634

PI: Gail P Gregg
COE TEACHING AND LEARNING
Award Action Type: Initial
AWARDING SPONSOR: Early Learning Coalition of Dade/Monroe
TITLE: Developmental Assessment Services **AWARD:** \$ 111,697

PI: Lei Guo
PHYSICS
Award Action Type: Increase
AWARDING SPONSOR: Jefferson Lab
TITLE: Hadron Spectroscopy at Jefferson Lab **AWARD:** \$ 17,909

PI: Ismail Guvenc
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: EARS: Collaborative Research: Pervasive Spectrum Sharing for Public **AWARD:** \$ 192,538

PI: Maria D Ilcheva
METROPOLITAN CENTER
Award Action Type: Initial
AWARDING SPONSOR: Citizens Independent Transportation Trus
TITLE: CITT - 2014 Transportation Sympoisum **AWARD:** \$ 48,622

PI: Maria D Ilcheva
METROPOLITAN CENTER
Award Action Type: Initial
AWARDING SPONSOR: Job Creators Network
TITLE: 2014 Elections Voter Guides
Florida, Georgia, North Carolina, New Hampshire and Colorado **AWARD:** \$ 60,000

PI: Shuliang Jiao
BIOMEDICAL ENGINEERING
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: Multimodal Retinal Functional Imaging for Diabetic Retinopathy **AWARD:** \$ 925

PI: Ranu Jung
BIOMEDICAL ENGINEERING
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: CRCNS: Computation-Enabled Adaptive Ventilatory Control **AWARD:** \$ 166,044

PI: Ranu Jung
BIOMEDICAL ENGINEERING
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: CRCNS: Computation-Enabled Adaptive Ventilatory Control System **AWARD:** \$ 27,420

PI: David Kadko
ARC APPLIED RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Novel Method of Determining Atmospheric Deposition of Trace Elements **AWARD:** \$ 31,978

PI: David Kadko
ARC APPLIED RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Collaborative Research: Management and Implementation of the U.S. Arctic **AWARD:** \$ 465,875

PI: Leonel E Lagos
ARC APPLIED RESEARCH CENTER
Award Action Type: Increase
AWARDING SPONSOR: Office of Environmental Management
TITLE: FIU research support to the DOE OEM **AWARD:** \$ 200,000

PI: Xiaosheng Li
MATH AND STATISTICAL SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: Naval Surface Warfare Center Carderock
TITLE: Inverse Problems in Radar Imaging **AWARD:** \$ 76,966

PI: Hong Liu
EARTH AND ENVIRONMENT
Award Action Type: Increase
AWARDING SPONSOR: Fairchild Tropical Botanic Garden
TITLE: GA for the Fairchild Challenge educational program **AWARD:** \$ 24,241

PI: Jason X Liu
COMPUTER INFO SCIENCES
Award Action Type: Continuation
AWARDING SPONSOR: BBN Technologies Corp.
TITLE: PrimoGENI Constellation for Distributed At-Scale Hybrid Network Experimentation **AWARD:** \$ 138,426

PI: Carla S Lupi
COM ACADEMIC AFFAIRS
Award Action Type: Initial
AWARDING SPONSOR: Assoc of Prof of Gynecology & Obstetrics
TITLE: Furthering the Validity of a Tool to Assess Non-Directive Pregnancy **AWARD:** \$ 14,954

PI: Purnima Madhivanan
EPIDEMIOLOGY
Award Action Type: Increase
AWARDING SPONSOR: Merck & Co. Inc. MSD Pharmaceuticals Priv
TITLE: Survey of predictors of HPV vaccination among parents of rural adolescent **AWARD:** \$ 25,977

PI: Iveris L Martinez
COM HUMANITIES HLTH AND SOC
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Health
TITLE: Institute on Aging and Health Appropriation: Quantitative **AWARD:** \$ 216,258

PI: Wasim Maziak
EPIDEMIOLOGY
Award Action Type: Supplemental
AWARDING SPONSOR: National Institutes of Health
TITLE: Tobacco Control Research and Capacity Building **AWARD:** \$ 305,784

PI: H Virginia McCoy
HEALTH PROMO AND DISEASE PREV
Award Action Type: Initial
AWARDING SPONSOR: Health Resources & Services Administrati
TITLE: FIU Public Health Traineeship **AWARD:** \$ 146,163

PI: Maria J Miguez Perez
SISH
Award Action Type: Pre-Award
AWARDING SPONSOR: University of Florida
TITLE: Pharmacotherapy for alcohol consumption in HIV Positive Women **AWARD:** \$ 245,047

PI: Maria J Miguez Perez
SISH
Award Action Type: Supplemental
AWARDING SPONSOR: University of Florida
TITLE: Southern HIV and Alcohol Research Consortium - SHARC **AWARD:** \$ 131,585

PI: Francisco Mora
LATIN AMERICAN AND CARIB CTR
Award Action Type: Increase
AWARDING SPONSOR: CACI International Inc
TITLE: FIU-SOUTHCOR Academic Roundtable Series/ Public Opinion Analyti **AWARD:** \$ 26,474

PI: Norman D Munroe
OSAS ENGINEERING AND COMPUTING
Award Action Type: Initial
AWARDING SPONSOR: Miami-Dade County Cultural Affairs
TITLE: MDC Department of Cultural Affairs SAS-C FY 2013-14 - Miami PREP **AWARD:** \$ 19,284

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

PI: Winifred E Newman
ARCHITECTURE
Award Action Type: Increase
AWARDING SPONSOR: FIU Foundation
TITLE: District 11 Strategic Development Plan **AWARD:** \$ 17,994

PI: Adly Norelus
STUDENT AFFAIRS VICE PRES OFF
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Agriculture and Co
TITLE: Summer Food Service Program **AWARD:** \$ 10,427

PI: Steven F Oberbauer
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Arctic Observing Networks: Collaborative Research: Sustaining **AWARD:** \$ 211,495

PI: Amy R Paul Ward
OCCUPATIONAL THERAPY
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Department of Education
TITLE: Preparing Occupational Therapists to Practice in Schools (POPS) **AWARD:** \$ 249,996

PI: William E Pelham Jr
CENTER FOR CHILDREN AND FAM
Award Action Type: Pre-Award
AWARDING SPONSOR: University of Pittsburgh
TITLE: The Development of Alcohol Use and Abuse in ADHD Adolescents **AWARD:** \$ 44,849

PI: Niki J Pissinou
COMPUTER INFO SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: Air Force Office of Scientific Research
TITLE: Using Trajectory Sensor Data Stream Cleaning to Ensure the Survivability **AWARD:** \$ 151,086

PI: Miriam Potocky
SCHOOL OF SOCIAL WORK
Award Action Type: Initial
AWARDING SPONSOR: New York Community Trust
TITLE: Project MIRACLE **AWARD:** \$ 20,000

PI: Geoffrey Potvin
PHYSICS
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Collaborative Research: Intersectionality of Non-Normative Identities **AWARD:** \$ 170,527

PI: Sean Prospect
COE DEANS OFFICE
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Education
TITLE: Project SILVER (FIU After- School All-Stars) **AWARD:** \$ 68,263

PI: Jennifer S Rehage
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: Everglades Foundation
TITLE: Using interannual variations in the hydrologic regime to predict spawning **AWARD:** \$ 10,000

PI: Naphtali D Rishe
COMPUTER INFO SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: MRI: Development of an Instrument for Acquisition, Management, **AWARD:** \$ 300,000

PI: Barry P Rosen
COM CELL BIOLOGY AND PHARM
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: Mechanisms of arsenical transport **AWARD:** \$ 466,344

PI: Jay P Sah
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: U.S. Army Corps of Engineers
TITLE: Landscape pattern - Marl Prairie/Slough Gradients **AWARD:** \$ 96,000

PI: Jay P Sah
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: U.S. Army Corps of Engineers
TITLE: Monitoring of Tree Island Condition in the Southern Everglades **AWARD:** \$ 92,000

PI: Sofia F Santiesteban
COLLEGE ACCESS
Award Action Type: Increase
AWARDING SPONSOR: U.S. Department of Education
TITLE: Florida International University Upward Bound: FIU TRIO Upward Bound **AWARD:** \$ 342

PI: Sofia F Santiesteban
COLLEGE ACCESS
Award Action Type: Increase
AWARDING SPONSOR: U.S. Department of Education
TITLE: Subproject: Florida International University Upward Bound **AWARD:** \$ 71,694

PI: Arif Islam Sarwat
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: CPS: Synergy: Collaborative Research: Towards Secure Networked Cyber-Physical **AWARD:** \$ 300,000

PI: Leonard J Scinto
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: National Park Service
TITLE: Assessing Near-Field and Landscape Scale Ecological Effects of the **AWARD:** \$ 150,000

PI: Renee M Silverman
MODERN LANGUAGES
Award Action Type: Increase
AWARDING SPONSOR: National Endowment for the Humanities
TITLE: A Lyric Revival: the Avant-Garde, Popular, and Traditional in Spanish **AWARD:** \$ 40,320

PI: Ernest G Simms
STUDENT ACCESS AND SUCCESS
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Education
TITLE: EV3 Robotics Program **AWARD:** \$ 699,448

PI: Matthew Tanner
STUDENT AFFAIRS VICE PRES OFF
Award Action Type: Initial
AWARDING SPONSOR: Peace Corps
TITLE: Peace Corps Strategic Recruiter **AWARD:** \$ 20,820

PI: Berrin Tansel
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: University of Florida
TITLE: Siloxanes in Biogas: Formation and Effect on Biogas Quality and Energy Costs **AWARD:** \$ 40,000

PI: Joel C Trexler
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: National Park Service
TITLE: Analyzing The Impact of The Intermediate Operating Plan (IOP) **AWARD:** \$ 155,000

PI: Ines R Triay Melendez
ARC APPLIED RESEARCH CENTER
Award Action Type: Increase
AWARDING SPONSOR: Independent Strategic Management Solutio
TITLE: ISM Solutions Task Order **AWARD:** \$ 8,095

PI: Nikolaos M Tsoukias
BIOMEDICAL ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: National Institutes of Health
TITLE: Integrative modeling to link vascular phenotype to gene expression **AWARD:** \$ 423,680

PI: Eric F Wagner
SCHOOL OF SOCIAL WORK
Award Action Type: Continuation
AWARDING SPONSOR: University of California San Diego
TITLE: Facilitating Self-Change for Adolescent Alcohol Problems **AWARD:** \$ 115,545

PI: Eric F Wagner
SCHOOL OF SOCIAL WORK
Award Action Type: Initial
AWARDING SPONSOR: Substance Abuse & Mental Health Services
TITLE: Miami-Dade Partnership for Preventing Health Risks among Young Adults **AWARD:** \$ 299,999

PI: Alan Lee Wells
COM HUMANITIES HLTH AND SOC
Award Action Type: Initial
AWARDING SPONSOR: Arnold P. Gold Foundation The
TITLE: Conceiving Disparities: Exploring Lifetime Stressors on the Perception of Pregnancy **AWARD:** \$ 4,000

Limited Submission Funding Opportunities

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

Agency	Program	Institutional Submission Limits	Internal Deadline	Agency Deadline
NSF	<u>Science and Technology Centers: Integrative Partnerships</u> (NSF 14-600)	Limit 3 applications per institution	11/11/2014	Prelim deadline: 12/11/2014 Agency Deadline: 06/06/2015
NSF	<u>Partnerships for Research and Education in Materials (PREM)</u> (NSF 14-606)	Limit 1 application per institution	11/20/2014	01/07/2015
NIH	<u>Centers of Excellence for Research on CAM (P01) - AIDS Application</u> (PAR-12-151)	Limit 1 application per institution	11/25/2014	AIDS Application: 01/07/2015
NSF	<u>Major Research Instrumentation Program (MRI): Instrument Acquisition or Development</u> (NSF 13-517)	Limit 3 applications per institution	12/04/2014	01/22/2015

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

DoD Orthotics and Prosthetics Outcomes Research Award

Funding Opportunity Number: W81XWH-14-OPORP-OPORA

Application Deadline: January 20, 2015

Description: The OPORP Orthotics and Prosthetics Outcomes Research Award (OPORA) is being offered for the first time in FY14. It is intended to support research that evaluates the comparative effectiveness of and functional outcomes associated with prosthetic and orthotic clinical interventions and/or other rehabilitation interventions for Service Members and Veterans who have undergone limb salvage or limb amputation. The goal is to improve our understanding of and ultimately advance the implementation of the most effective prescriptions for prosthetic and orthotic devices, treatment, rehabilitation, and secondary health effect prevention options for patients, clinicians, other caregivers, and policymakers. Proposed projects should be designed to provide outcomes data regarding orthotic and prosthetic devices, and/or related clinical interventions and must include the anticipated effect on patient care metrics. Collaboration with military researchers and clinicians is encouraged, as are joint Department of Defense (DoD)-VA studies, including longitudinal outcome studies. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

DoD USAMRMC FY15 Broad Agency Announcement for Extramural Medical Research

Funding Opportunity Number: W81XWH-BAA-15-1

Application Deadline: September 30, 2015

Description: The U.S. Army Medical Research and Materiel Command's (USAMRMC) mission is to provide solutions to medical problems of importance to the American Service member at home and abroad, as well as to the general public at large. The scope of this effort and the priorities attached to specific projects are influenced by changes in military and civilian medical science and technology, operational requirements, military threat assessments, and national defense strategies. Submission of a pre-proposal/pre-application is required and must be submitted through the new electronic Biomedical Research Application Portal (eBRAP) (<https://eBRAP.org/>). Pre-proposal/pre-applications may be submitted at any time throughout the 12-month period. If the USAMRMC is

interested in receiving a full proposal/application, the PI will be sent an invitation to submit via eBRAP. A full proposal/application must be submitted through Grants.gov (<http://www.grants.gov>). Invited full proposals/applications can be submitted under the FY15 BAA through September 30, 2015. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

SafeWare

Funding Opportunity Number: DARPA-BAA-14-65

Application Deadline: November 18, 2014

Description: The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of program obfuscation. 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. For further details see attached PDF DARPA-BAA-14-65 SafeWare. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Long Range BAA for Navy and Marine Corps Science and Technology

Funding Opportunity Number: ONRBAA15-001

Application Deadline: September 30, 2015

Description: The Office of Naval Research (ONR) is interested in receiving proposals for Long-Range Science and Technology (S&T) Projects which offer potential for advancement and improvement of Navy and Marine Corps operations. Readers should note that this is an announcement to declare ONR's broad role in competitive funding of meritorious research across a spectrum of science and engineering disciplines. A brief description of the ONR Program Codes and the science and technology thrusts that ONR is pursuing is provided below. Additional information can be found at the ONR website at [http://www.onr.navy.mil/Science- Technology/Departments.aspx](http://www.onr.navy.mil/Science-Technology/Departments.aspx). <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

Cyber Fault-tolerant Attack Recovery (CFAR)

Funding Opportunity Number: DARPA-BAA-14-64

Application Deadline: November 19, 2014

Description: The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of heterogeneous, cyber fault-tolerant computation to enable rapid detection of and recovery from cyber-attacks. 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. For further details see attached PDF DARPA-BAA-14-64(CFAR). AMENDMENT 0001: The purpose of this Amendment is to revise Section D, Other Eligibility Requirements. See Attached PDF DARPA-BAA-14-64 (CFAR) Amendment 1 for further details as the changes are highlighted in yellow. <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 - Air Force Applications

Funding Opportunity Number: ONRFOA14-012

Application Deadline: February 23, 2015

Description: The DoD Multidisciplinary University Research Initiative (MURI) program supports basic research in science and engineering at U.S. institutions of higher education (hereafter referred to as "universities") that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest to the DoD. As defined by the DoD, "basic research is systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind. It includes all scientific study and experimentation directed toward increasing fundamental knowledge and understanding in those fields of the physical, engineering, environmental, and life sciences related to long-term national security needs. It is farsighted high payoff research that provides the basis for technological progress." (DoD 7000.14.R, vol. 2B, chap.5). DoD's basic research program invests broadly in many specific fields to ensure that it has early cognizance of new scientific knowledge.

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

Spectral Combs from UV to THz (SCOUT)**Funding Opportunity Number:** DARPA-BAA-15-05**Application Deadline:** November 25, 2014

Description: The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of chip-scale optical frequency combs for spectroscopic sensing. 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.

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

DoD Orthotics and Prosthetics Outcomes Research Award**Funding Opportunity Number:** W81XWH-14-OPORP-OPORA**Application Deadline:** January 20, 2015

Description: The OPORP Orthotics and Prosthetics Outcomes Research Award (OPORA) is intended to support research that evaluates the comparative effectiveness of and functional outcomes associated with prosthetic and orthotic clinical interventions and/or other rehabilitation interventions for Service Members and Veterans who have undergone limb salvage or limb amputation. The goal is to improve our understanding of and ultimately advance the implementation of the most effective prescriptions for prosthetic and orthotic devices, treatment, rehabilitation, and secondary health effect prevention options for patients, clinicians, other caregivers, and policymakers.

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

Department of Education

OSERS-OSEP: Personnel Development to Improve Services and Results for Children with Disabilities:**Personnel Preparation in Special Education, Early Intervention, and Related Services****Funding Opportunity Number:** Various described below**Deadline for Transmittal of Applications:** December 5, 2014

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

- Preparing Personnel to Serve Infants, Toddlers, and Pre-school Age Children with Disabilities
ED-GRANTS-102214-002—CFDA Number 84.325K-1
- Preparing Personnel to Serve School-Age Children with Low Incidence Disabilities
ED-GRANTS-102214-003—CFDA Number 84.325K-2
- Preparing Personnel to Provide Related Services to Children, Including Infants and Toddlers, with Disabilities
ED-GRANTS-102214-004—CFDA Number 84.325K-3
- Preparing Personnel in Minority Institutions of Higher Education to Serve Children, Including Infants and Toddlers, with Disabilities—ED-GRANTS-102214-005—CFDA Number 84.325K-4

OSERS-OSEP: Personnel Development to Improve Services and Results for Children with Disabilities:**Preparation of Special Education, Early Intervention, and Related Services Leadership Personnel****Funding Opportunity Number:** ED-GRANTS-102214-001**Deadline for Transmittal of Applications:** December 12, 2014

Description: The purpose of the Preparation of Special Education, Early Intervention, and Related Services Leadership Personnel priority is to support pre-existing programs that prepare special education, early intervention, and related services personnel at the graduate level who are well-qualified for, and can act effectively in, leadership positions in universities, State educational agencies (SEAs), lead agencies (LAs), local educational agencies (LEAs), early intervention services programs (EIS programs), or schools. For more information, visit www.grants.gov and search by opportunity number.

Institute of Museum and Library Services

Sparks! Ignition Grants for Museums

Funding Opportunity Number: SPARKS-MUSEUMS-FY15

Deadline for Transmittal of Applications: December 1, 2014

Description: The Sparks! Ignition Grants for Museums program is a special funding opportunity within the IMLS National Leadership Grants for Museums program. These small grants encourage museums to prototype and evaluate specific innovations in the ways they operate and the services they provide. Project results – be they success, failure, or a combination thereof – should offer valuable information to the museum field and the potential for improvement in the ways museums serve their communities. For more information, visit

<http://www.imls.gov/applicants/detail.aspx?GrantId=23> or www.grants.gov and search by opportunity number.

Museum Grants for African American History and Culture

Funding Opportunity Number: AAHC-FY15

Deadline for Transmittal of Applications: December 1, 2014

Description: Museum Grants for African American History and Culture (AAHC) support projects that improve the operations, care of collections, and development of professional management at African American museums.

AAHC grants can fund both new and ongoing museum activities and programs. For more information, visit <http://www.imls.gov/applicants/detail.aspx?GrantId=12> or www.grants.gov and search by opportunity number.

Museums for America

Funding Opportunity Number: MFA-FY15

Deadline for Transmittal of Applications: December 1, 2014

Description: The Museums for America (MFA) program supports projects that strengthen the ability of an individual museum to serve its public. MFA has three project categories: Learning Experiences IMLS supports the unique ability of museums to empower people of all ages through experiential learning and discovery. Successful projects provide high-quality, inclusive educational opportunities that address particular audience needs.

Community Anchors IMLS promotes the role of museums as essential partners in addressing the needs of their communities by leveraging their expertise, knowledge, physical space, technology, and other resources. These projects strive to create a better quality of life within communities. Collections Stewardship IMLS supports the exemplary management, care, and conservation of museum collections. Projects address a clearly articulated and well-documented need and contribute to the long-term preservation of materials entrusted to the museum's care. For more information, visit <http://www.imls.gov/applicants/detail.aspx?GrantId=11> or www.grants.gov and search by opportunity number.

National Leadership Grants for Museums

Funding Opportunity Number: NLG-MUSEUMS-FY15

Deadline for Transmittal of Applications: December 1, 2014

Description: National Leadership Grants for Museums support projects that address critical needs of the museum field and that have the potential to advance practice in the profession so that museums can improve services for the American public. National Leadership Grants for Museums has three project categories: Learning Experiences IMLS supports the unique ability of museums to empower people of all ages through experiential learning and discovery. Successful projects provide high-quality, inclusive educational opportunities that address particular audience needs. Community Anchors IMLS promotes the role of museums as essential partners in addressing the needs of their communities by leveraging their expertise, knowledge, physical space, technology, and other resources. These projects strive to create a better quality of life within communities. Collections Stewardship IMLS supports the exemplary management, care, and conservation of museum collections. Projects address a clearly articulated and well-documented need and contribute to the long-term preservation of materials entrusted to the museum's care. For more information, visit <http://www.imls.gov/applicants/detail.aspx?GrantId=22> or www.grants.gov and search by opportunity number.

Miami-Dade County Department of Cultural Affairs

Audience Access Grant Program

Funding Opportunity Number: N/A

Application Deadline: Ongoing

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

Community Grants Program (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>

Community Grants Program (CG) – 4th Quarter

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (CG Specific): February 19, 2015, 2 PM – [Click here to RSVP](#)

Application Deadline: March 12, 2015 – 4 PM

Description: Quarterly program responsive to non-profit organizations developing small to medium scale community-based cultural arts programs, projects and events, such as fairs, parades, neighborhood festivals, conferences and publications. This program is particularly appropriate for projects which encourage the preservation of heritage and cultural traditions, and social service organizations and cultural groups developing collaborative intervention projects. <http://miamidadearts.culturegrants.org/navigation/links/page/community-grants-program-cg>

Tourist Development Council Grant Program (TDC) – 3rd Quarter

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (TDC Specific): December 11, 2014, 2 PM- [Click here to RSVP](#)

Grant System Basics Workshop: Visit [CGO Miami Homepage](#) for dates & times

Application Deadline: January 15, 2015, 4 PM

Description: Quarterly program which provides support to significant cultural and/or special events, including sports activities and television/film origination projects that promote Miami-Dade County's appeal as a tourist destination. Activities must be able to stimulate tourism by increasing hotel occupancy and will have significant media impact for Miami-Dade County. <http://miamidadearts.culturegrants.org/navigation/links/page/tourist-development-council-tdc>

Tourist Development Council Grant Program (TDC) – 4th Quarter

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (TDC Specific): March 19, 2015, 2 PM- [Click here to RSVP](#)

Grant System Basics Workshop: Visit [CGO Miami Homepage](#) for dates & times:

Application Deadline: April 16, 2015, 4 PM

Description: Quarterly program which provides support to significant cultural and/or special events, including

sports activities and television/film origination projects that promote Miami-Dade County's appeal as a tourist destination. Activities must be able to stimulate tourism by increasing hotel occupancy and will have significant media impact for Miami-Dade County. <http://miamidadearts.culturegrants.org/navigation/links/page/tourist-development-council-tdc>

National Institutes of Health

Hepatitis C Cooperative Research Centers: Immunity to HCV Infection (U19)

Funding Opportunity Number: RFA-AI-14-045

Application Deadline: February 3, 2015

Description: The purpose of the Funding Opportunity Announcement (FOA) is to support research on the host immunological response to Hepatitis C Virus (HCV) infection with the goal of defining the immune requirements critical to a) protection against HCV infection, and b) successful clearance of HCV infection, conducted through Hepatitis C Cooperative Research Centers (HepC Center(s)). <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-045.html#sthash.XoCyOnyA.dpuf>

Studies of HIV in Digestive Diseases Limited to Gastrointestinal Mucosal Immunology and Liver Diseases (R01)

Funding Opportunity Number: RFA-DK-14-019

Application Deadline: April 7, 2015

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

Increasing Access and Uptake of HIV Testing and Counseling (HTC) and Appropriate HIV-related Services for Adolescents in Low and Middle-income Countries (R01)

Funding Opportunity Number: RFA-HD-15-017

Application Deadline: January 2, 2015

Description: This Funding Opportunity Announcement (FOA) encourages applications for implementation science projects that will provide results to directly inform HIV prevention and care service delivery programs for HIV-infected and at-risk, uninfected adolescents in resource limited settings, in order to increase their impact, efficiency, and sustainability. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-15-017.html#sthash.IXDxcVO.dpuf>

Vascular Dysfunction in the Pathogenesis of Severe Malaria (R01)

Funding Opportunity Number: RFA-HL-15-023

Application Deadline: February 13, 2015

Description: The purpose of this FOA is to solicit multiple-Program Director/Principal Investigator (PD/PI) applications that propose collaborative studies to address the role of vascular activation and dysfunction in the pathogenesis of severe malaria. Multidisciplinary teams of investigators are needed to identify pathways and regulatory mechanisms by which vascular factors contribute to the complex etiology of severe malaria. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-023.html#sthash.xLYeEXpm.dpuf>

System-Level Health Services and Policy Research on Health Disparities (R01)

Funding Opportunity Number: RFA-MD-15-001

Application Deadline: January 20, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit innovative system-level health services and policy research that can directly and demonstrably contribute to the elimination of health disparities. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-001.html#sthash.oC9XYeAF.dpuf>

NIMHD Academic Research Enhancement Award: Enhancing Health Disparities Research at Undergraduate Institutions (R15)

Funding Opportunity Number: RFA-MD-15-002

Application Deadline: January 12, 2015

Description: The NIMHD encourages institutions that are eligible to apply for support through the NIH Academic Research Enhancement Awards (AREA) program to submit applications for innovative research projects focused on minority health and health disparities. Awards are intended to support small-scale projects proposed by faculty members at eligible institutions to expose students to meritorious research and to strengthen the research environment of participating institutions. This initiative also seeks to stimulate interest in health disparities research careers among undergraduate students through hands-on participation in original research.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-002.html#sthash.WsPtaSUI.dpuf>

Building Interdisciplinary Research Careers in Women's Health (K12)

Funding Opportunity Number: RFA-OD-15-001

Application Deadline: January 5, 2015

Description: The NIH Office of Research on Women's Health (ORWH) and its cosponsors invite institutional career development award applications for Building Interdisciplinary Research Careers in Women's Health (BIRCWH) Career Development Programs, hereafter termed "Programs." Programs will support mentored research career development of junior faculty members, known as BIRCWH Scholars, who have recently completed clinical training or postdoctoral fellowships, and who will be engaged in interdisciplinary basic, translational, behavioral, clinical, and/or health services research relevant to women's health, and where appropriate the use of both sexes to better understand the influence of sex as a variable on health and disease. <http://grants.nih.gov/grants/guide/rfa-files/RFA-OD-15-001.html#sthash.GsIAavmP.dpuf>

Spatial Uncertainty: Data, Modeling, and Communication (R21)

Funding Opportunity Number: PA-15-009

Application Deadline: Multiple dates, see announcement.

Description: The purpose of this funding opportunity announcement (FOA) is to support innovative research that identifies sources of spatial uncertainty (i.e., inaccuracy or instability of spatial or geographic information) in public health data, incorporates the inaccuracy or instability into statistical methods, and develops novel tools to visualize the nature and consequences of spatial uncertainty. <http://grants.nih.gov/grants/guide/pa-files/PA-15-009.html#sthash.yMnzsOJT.dpuf>

Spatial Uncertainty: Data, Modeling, and Communication (R01)

Funding Opportunity Number: PA-15-010

Application Deadline: Multiple dates, see announcement.

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

Spatial Uncertainty: Data, Modeling, and Communication (R03)

Funding Opportunity Number: PA-15-011

Application Deadline: Multiple dates, see announcement.

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

Innovative Technologies for Differential Diagnosis of Acute Febrile Illnesses (R21/R33)

Funding Opportunity Number: RFA-AI-14-062

Application Deadline: February 2, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit applications for early-stage translational research projects focused on the development of innovative, unbiased next generation, differential diagnostic technologies for acute febrile illnesses caused by infectious pathogens, excluding HIV.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-062.html#sthash.MiSromLC.dpuf>

Consortium for the Study of Chronic Pancreatitis, Diabetes and Pancreatic Cancer Clinical Centers (CSCPDPC -CCs) (U01)

Funding Opportunity Number: RFA-DK-14-027

Application Deadline: April 2, 2015

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

Consortium for the Study of Chronic Pancreatitis, Diabetes and Pancreatic Cancer Coordination and Data Management Center (CSCPDPC- CDMC) (U01)

Funding Opportunity Number: RFA-DK-14-028

Application Deadline: April 2, 2015

Description: This Funding Opportunity Announcement (FOA) invites U01 applications for the establishment of a clinical consortium, composed of one Coordination and Data Management Center (CDMC) and up to 9 Clinical Centers (CC), to conduct studies on chronic pancreatitis (CP) and factors that increase the risk of pancreatic cancer in patients (children and adults) with CP, pancreatogenic (type 3c) diabetes (T3cDM) and in patients with newly diagnosed diabetes. The Consortium will form multi-disciplinary teams composed of members from the CCs and CDMC to undertake a comprehensive clinical, epidemiological and biological characterization of patients with CP (including those with Acute Recurrent Pancreatitis, ARP) to gain insight into the pathophysiology of chronic pancreatitis and its sequela: chronic pain, pancreatic insufficiency, T3cDM and the diabetes/pancreatic cancer association. The teams will also undertake studies on the development of pancreatic cancer in newly diagnosed diabetic patients. Applications for the consortium Clinical Centers are being solicited via [RFA-DK-14-027](http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-027.html#sthash.QLYrt4fx.dpuf) Consortium for the Study of Chronic Pancreatitis, Diabetes and Pancreatic Cancer Clinical Centers (CSCPDPC-CCs) (U01). In addition, a major collaborative effort within the Consortium will be the establishment of an annotated repository of bio-specimens (blood, pancreatic and duodenal juice, stools and when feasible pancreatic tissue) to allow for the identification and validation of biomarkers for risk stratification and/or early detection. <http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-028.html#sthash.QLYrt4fx.dpuf>

NINDS Institutional Center Core Grants to Support Neuroscience Research (P30)

Funding Opportunity Number: RFA-NS-14-013

Application Deadline: December 29, 2014

Description: This Funding Opportunity Announcement (FOA) invites applications for Center Core Grants that provide resources and facilities shared by a minimum of six NINDS-supported investigators, and supporting a wider base of neuroscience research. The proposed Centers should offer services and expertise that would be difficult or impractical to support in individual labs. The Centers are expected to capitalize on economies and synergies associated with shared resources, and to foster a collaborative environment among neuroscientists at host institutions. <http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-14-013.html#sthash.NqbNc3lk.dpuf>

Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R21)

Funding Opportunity Number: PA-15-015

Application Deadline: Multiple dates, see announcement.

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

Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R15)

Funding Opportunity Number: PA-15-016

Application Deadline: Multiple dates, see announcement.

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

Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R01)

Funding Opportunity Number: PA-15-017

Application Deadline: Multiple dates, see announcement.

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

Limited Competition for the Continuation of Rare Diseases Clinical Research Consortia in the Rare Diseases Clinical Research Network (U54)

Funding Opportunity Number: PAR-15-019

Application Deadline: December 16, 2014

Description: This Funding Opportunity Announcement (FOA) is limited to those Program Director(s)/Principal Investigator(s) of Rare Diseases Clinical Research Consortia (RDCRC) who received an NINDS award under the Rare Diseases Clinical Research Network (RDCRN) program through RFA-TR-13-002, or an NCI award through RFA-OD-08-001. The purpose of this limited competition FOA is to allow these NINDS- and NCI-awarded

consortia an opportunity to compete for another four years of participation in the RDCRN. The RDCRN is a collaborative and coordinated network of Clinical Research Consortia comprised of investigators and patient advocacy groups committed to investigation of rare diseases working in partnership with a Data Management Coordinating Center (<http://grants.nih.gov/grants/guide/rfa-files/RFA-TR-13-003.html>) to enhance communication and sharing of resources in a multidisciplinary approach. This FOA intends to support: 1) collaborative clinical research in rare diseases, including longitudinal studies of individuals with rare diseases, clinical studies and/or clinical trials; 2) career development and advancement opportunities for clinical investigators in rare diseases research; 3) pilot/demonstration (proof of concept) clinical research projects; and 4) access to information related to rare diseases for basic and clinical researchers, physicians, patients, and the lay public.

<http://grants.nih.gov/grants/guide/pa-files/PA-15-019.html#sthash.SOrz5IbV.dpuf>

Systems Developmental Biology for Understanding Embryonic Development and the Ontogeny of Structural Birth Defects (R01)

Funding Opportunity Number: PAR-15-020

Application Deadline: January 15, 2015, November 10, 2015, November 10, 2016

Description: The purpose of this funding opportunity announcement (FOA) is to promote systems developmental biology. In the context of this FOA, systems developmental biology is defined as research focused on understanding how biological components work together to produce the complex biological phenomena encompassing embryonic development. <http://grants.nih.gov/grants/guide/pa-files/PA-15-020.html#sthash.9WPRPfZd.dpuf>

Elucidating HIV and HIV-treatment Associated Metabolic/Endocrine Dysfunction (R01)

Funding Opportunity Number: RFA-DK-14-023

Application Deadline: April 9, 2015

Description: The goal of this Funding Opportunity Announcement (FOA) is to support innovative research in humans to elucidate the role of HIV infection, including relevant host conditions or antiretroviral therapy, on metabolic and endocrine dysfunction, as well as to support innovative research delineating the pathophysiology, etiology, risk or protective factors, and potential strategies to prevent, treat, or reverse endocrine and metabolic dysfunction in HIV-infected individuals. Proposed projects must involve human subjects with HIV infection or materials or data from HIV-infected individuals. Proposed projects must also be related to the mission of the Division of Diabetes, Endocrinology, and Metabolic Diseases within NIDDK (DEM/NIDDK).

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-023.html#sthash.Y6iDlf3U.dpuf>

Clinical Studies of Safety and Effectiveness of Orphan Products Research Project Grant (R01)

Funding Opportunity Number: RFA-FD-15-001

Application Deadline: Application Due Date(s): February 4, 2015; February 3, 2016; February 1, 2017; February 7, 2018 by 11:59 PM Eastern Time. Resubmission Due Date(s): October 15, 2015; October 14, 2016; October 16, 2017; October 15, 2018) by 11:59 PM Eastern Time.

Description: The goal of FDA's OPD grant program is to support the clinical development of products for use in rare diseases or conditions where no current therapy exists or where the product being developed will be superior to the existing therapy. FDA provides grants for clinical studies on safety and/or effectiveness that will either result in, or substantially contribute to, market approval of these products. Applicants must include in the application's Background and Significance section documentation to support the assertion that the orphan disease or condition to be studied is a "rare disease or condition" and an explanation of how the proposed study will either help support product approval or provide essential data needed for product development.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-15-001.html#sthash.qBGNwsfz.dpuf>

Pediatric HIV/AIDS Cohort Study (PHACS) Coordinating Center (CC) (U01)

Funding Opportunity Number: RFA-HD-15-027

Application Deadline: January 2, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to continue addressing two critical scientific questions on the clinical course of perinatally acquired HIV infection in adolescents and the oral and systemic health consequences of in utero and infant exposure to antiretroviral chemotherapy in representative cohorts of children in the United States. The CC is responsible for maintaining the Scientific Leadership Group

(SLG) through performance-based subcontracts. The SLG should continue to have scientific specialty working groups to reflect the different disciplines required to successfully implement the protocols and substudies.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-15-027.html#sthash.nwf0SRbn.dpuf>

Pediatric HIV/AIDS Cohort Study (PHACS) Data and Operations Center (DOC) (U01)

Funding Opportunity Number: RFA-HD-15-029

Application Deadline: January 2, 2015

Description: The purpose of this FOA is to continue support for the Pediatric HIV/AIDS Cohort Study (PHACS) which addresses critical scientific questions on the clinical course of perinatally acquired HIV infection in adolescents and young adults and the oral and systemic health consequences of in utero and infant exposure to antiretroviral chemotherapy in representative cohorts of children in the United States. The data and operations center (DOC) will continue to coordinate clinical site activities (including community advisory board participation and activities), to provide methodological and analytical support, and to manage the database, including reconciliation with collaborating databases. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-15-029.html#sthash.zJmnQIZo.dpuf>

NIH Director's Early Independence Awards (DP5)

Funding Opportunity Number: RFA-RM-14-004

Application Deadline: January 30, 2015

Description: The NIH Director's Early Independence Award Program supports exceptional investigators who wish to pursue independent research directly after completion of their terminal doctoral/research degree or clinical residency, thereby forgoing the traditional post-doctoral training period and accelerating their entry into an independent research career. <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-14-004.html#sthash.K6nRIZhH.dpuf>

Physical Sciences-Oncology Network (PS-ON): Physical Sciences-Oncology Projects (PS-OP) (U01)

Funding Opportunity Number: PAR-15-021

Application Deadline: February 26, 2015; November 25, 2015; May 26, 2016; September 21, 2016; May 26, 2017; September 21, 2017

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

Brain Somatic Mosaicism and its Role in Psychiatric Disorders (Collaborative U01)

Funding Opportunity Number: PAR-15-022

Application Deadline: February 24, 2015; October 23, 2015; June 24, 2016; February 24, 2017

Description: This funding opportunity announcement (FOA) invites Cooperative Agreement (U01) applications from multi-disciplinary and synergistic teams of investigators proposing to identify and characterize the full spectrum of somatic variation in human brain samples and to assess the relationship of such variation with the pathophysiology of neuropsychiatric disorders. This FOA seeks to support applications exploring the extent of somatic variations across different brain regions in one or more psychiatric disorders using state-of-the-art genomic, computational, single-cell and other relevant approaches. Awards made under this FOA and the companion FOA (PAR-14-173) will be governed by a Brain Somatic Mosaicism (BSM) Network Steering Committee to accelerate scientific progress through the coordination of research strategies, analytical methods and data. The ultimate goal of this FOA and the companion FOA (PAR-14-173) is to address gaps in our understanding of the role of somatic genomic perturbations in the etiology of neuropsychiatric disorders.

This FOA should be used when two or more collaborating sites are essential to complete the proposed research. It is required that the Research Strategy be identical across linked collaborative U01 applications, with the exception of a short section describing specific function of each application under "elements unique to that site." For a linked set of collaborative U01 applications, each application must have its own Program Directory/Principal Investigator (PD/PI) and the program must provide a mechanism for cross-site coordination, quality control, data and sample sharing among the BSM Network members as appropriate, database management, statistical analysis, and reporting. <http://grants.nih.gov/grants/guide/pa-files/PA-15-022.html#sthash.ZO546iw1.dpuf>

National Science Foundation

Statistics

Funding Opportunity Number: PD-08-1269

Application Deadline: November 7, 2014

Description: The Statistics Program supports research in statistical theory and methods, including research in statistical methods for applications to any domain of science and engineering. The theory forms the base for statistical science. The methods are used for stochastic modeling, and the collection, analysis and interpretation of data. The methods characterize uncertainty in the data and facilitate advancement in science and engineering. The Program encourages proposals ranging from single-investigator projects to interdisciplinary team projects. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5556

Probability

Funding Opportunity Number: PD-10-1263

Application Deadline: November 7, 2014

Description: The Probability Program supports research on the theory and applications of probability. Subfields include discrete probability, stochastic processes, limit theory, interacting particle systems, stochastic differential and partial differential equations, and Markov processes. Research in probability which involves applications to other areas of science and engineering is especially encouraged. Conference Principal Investigators should carefully read the program solicitation "Conferences and Workshops in the Mathematical Sciences" (link below) to obtain important information regarding the substance of proposals for conferences, workshops, summer/winter schools, and similar activities. Conference and workshop proposals should be submitted eight months before the requested start date. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5555

SBE Postdoctoral Research Fellowships

Funding Opportunity Number: 14-595

Application Deadline: November 10, 2014

Description: The Directorate for Social, Behavioral and Economic Sciences (SBE) offers Postdoctoral Research Fellowships in two tracks: (i) Broadening Participation (SPRF-BP), and (ii) Interdisciplinary Research in Behavioral and Social Sciences (SPRF-IBSS). See the full text of the solicitation for detailed description of these tracks. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14595

Information and Intelligent Systems (IIS): Core Programs

Funding Opportunity Number: 14-596

Application Deadline: November 10, 2014

Description: CISE's Division of Information and Intelligent Systems (IIS) supports research and education projects that develop new knowledge in three core programs: The Cyber-Human Systems (CHS) program; The Information Integration and Informatics (III) program; and The Robust Intelligence (RI) program. Proposals in the area of computer graphics and visualization may be submitted to any of the three core programs described above. Proposers are invited to submit proposals in three project classes, which are defined as follows: Small Projects - up to \$500,000 total budget with durations up to three years; Medium Projects - \$500,001 to \$1,200,000 total budget with durations up to four years; and Large Projects - \$1,200,001 to \$3,000,000 total budget with durations up to five years. A more complete description of the three project classes can be found in section II, Program Description of this document. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14596

Computer and Network Systems (CNS): Core Programs**Funding Opportunity Number:** 14-597**Application Deadline:** November 10, 2014

Description: CISE's Division of Computer and Network Systems (CNS) supports research and education projects that develop new knowledge in two core programs: Computer Systems Research (CSR) program; and Networking Technology and Systems (NeTS) program. Proposers are invited to submit proposals in three project classes, which are defined as follows: Small Projects - up to \$500,000 total budget with durations up to three years; Medium Projects - \$500,001 to \$1,200,000 total budget with durations up to four years; and Large Projects - \$1,200,001 to \$3,000,000 total budget with durations up to five years. A more complete description of the three project classes can be found in section II, Program Description of this document.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14597

Computing and Communication Foundations (CCF): Core Programs**Funding Opportunity Number:** 14-598**Application Deadline:** November 10, 2014

Description: CISE's Division of Computing and Communication Foundations (CCF) supports research and education projects that develop new knowledge in three core programs: The Algorithmic Foundations (AF) program; The Communications and Information Foundations (CIF) program; and The Software and Hardware Foundations (SHF) program. Proposers are invited to submit proposals in three project classes, which are defined as follows: Small Projects - up to \$500,000 total budget with durations up to three years; Medium Projects - \$500,001 to \$1,200,000 total budget with durations up to four years; and Large Projects - \$1,200,001 to \$3,000,000 total budget with durations up to five years. A more complete description of the three project classes can be found in section II, Program Description of this document.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14598

Secure and Trustworthy Cyberspace**Funding Opportunity Number:** 14-599**Application Deadline:** November 10, 2014

Description: Cyberspace has transformed the daily lives of people for the better. The rush to adopt cyberspace, however, has exposed its fragility and vulnerabilities: corporations, agencies, national infrastructure and individuals have been victims of cyber-attacks. The Secure and Trustworthy Cyberspace (SaTC) program welcomes proposals that address Cybersecurity from a Trustworthy Computing Systems (TWC) perspective and/or a Social, Behavioral and Economic Sciences (SBE) perspective, or from the Secure, Trustworthy, Assured and Resilient Semiconductors and Systems (STARSS) perspective. In addition, we welcome proposals that integrate research addressing all of these perspectives (see below). Proposals may be submitted in one of the following three categories (plus Cybersecurity Education; see below): Small projects: up to \$500,000 in total budget, with durations of up to three years Medium projects: \$500,001 to \$1,200,000 in total budget, with durations of up to four years Large projects: \$1,200,001 to \$3,000,000 in total budget, with durations of up to five years Projects with Trustworthy Computing Systems and/or Social, Behavioral and Economic Sciences perspectives may include a Transition to Practice (TTP) option, described in a supplementary document of no more than five pages.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14599

Enriched Doctoral Training in the Mathematical Sciences**Funding Opportunity Number:** 14-589**Application Deadline:** November 12, 2014

Description: The long-range goal of the Enriched Doctoral Training in the Mathematical Sciences (EDT) 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 and in other professions in which expertise in the mathematical sciences plays an increasingly important role. The EDT program will achieve this by supporting efforts to enrich research training in the mathematical sciences at the doctoral level by preparing Ph.D. students to recognize and find solutions to mathematical challenges arising in other fields and in areas outside today's academic setting. Graduate research training activities supported by EDT will prepare participants for a broader range of mathematical opportunities and career paths than has been traditional in U.S. mathematics doctoral training. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14589

National Robotics Initiative**Funding Opportunity Number:** 14-500**Application Deadline:** November 13, 2014

Description: The goal of the National Robotics Initiative is to accelerate the development and use of robots in the United States that work beside, or cooperatively with, people. The purpose of this program is the development of this next generation of robotics, to advance the capability and usability of such systems and artifacts, and to encourage existing and new communities to focus on innovative application areas. It will address the entire life cycle from fundamental research and development to manufacturing and deployment. Methods for the establishment and infusion of robotics in educational curricula and research to gain a better understanding of the long term social, behavioral and economic implications of co-robots across all areas of human activity are important parts of this initiative. Collaboration between academic, industry, non-profit and other organizations is strongly encouraged to establish better linkages between fundamental science and technology development, deployment and use. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14500

Integrated Earth Systems**Funding Opportunity Number:** 12-613**Application Deadline:** November 14, 2014

Description: Integrated Earth Systems (IES) is a program in the Division of Earth Sciences (EAR) that focuses on the continental, terrestrial and deep Earth subsystems of the whole Earth system. Specifically, IES will provide research opportunities for the study of Earth systems from the core of the Earth to the top of the critical zone with a specific focus on subsystems that include continental, terrestrial and deep Earth subsystems at all temporal and spatial scales (NROES, 2012). IES will provide opportunities to focus on Earth systems connected to topics which include (but are not limited to) the continents; the terrestrial, surficial Earth systems including physical, chemical and biotic dimensions; linkages among tectonics, climate, landscape change, topography and geochemical cycles including core and mantle processes. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf12613

CyberCorps(R): Scholarship for Service**Funding Opportunity Number:** 14-586**Application Deadline:** November 14, 2014

Description: The CyberCorps(R): Scholarship for Service (SFS) program seeks proposals that address cybersecurity education and workforce development. The Scholarship Track provides funding to award scholarships to students in cybersecurity. In return for their scholarships, recipients will work after graduation for a Federal, State, Local, or Tribal Government organization in a position related to cybersecurity for a period equal to the length of the scholarship. The Capacity Track seeks innovative proposals leading to an increase in the ability of the United States higher education enterprise to produce cybersecurity professionals.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14586

Advancing Informal STEM Learning**Funding Opportunity Number:** 14-555**Application Deadline:** November 14, 2014

Description: The Advancing Informal STEM Learning (AISL) program seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning in informal environments; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal environments; and develop understandings of deeper learning by participants. The AISL program supports six types of projects: (1) Pathways, (2) Research in Service to Practice, (3) Innovations in Development, (4) Broad Implementation, (5) Conferences, Symposia, and Workshops, and (6) Science Learning+ Proposals. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14555

Petascale Computing Resource Allocations**Funding Opportunity Number:** 14-518**Application Deadline:** November 14, 2014

Description: In 2013, a new NSF-funded petascale computing system, Blue Waters, was deployed at the University of Illinois. The goal of this project and system is to open up new possibilities in science and engineering

by providing computational capability that makes it possible for investigators to tackle much larger and more complex research challenges across a wide spectrum of domains. The purpose of this solicitation is to invite research groups to submit requests for allocations of resources on the Blue Waters system. Proposers must show a compelling science or engineering challenge that will require petascale computing resources. Proposers must also be prepared to demonstrate that they have a science or engineering research problem that requires and can effectively exploit the petascale computing capabilities offered by Blue Waters. Proposals from or including junior researchers are encouraged, as one of the goals of this solicitation is to build a community capable of using petascale computing. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14518

Collaborative Research in Computational Neuroscience

Funding Opportunity Number: 14-504

Application Deadline: November 14, 2014

Description: Computational neuroscience provides a theoretical foundation and a rich set of technical approaches for understanding complex neurobiological systems, building on the theory, methods, and findings of computer science, neuroscience, and numerous other disciplines. Through the CRCNS program, the National Science Foundation (NSF), the National Institutes of Health (NIH), the German Federal Ministry of Education and Research, the French National Research Agency, and the United States-Israel Binational Science Foundation (BSF) support collaborative activities that will advance the understanding of nervous system structure and function, mechanisms underlying nervous system disorders, and computational strategies used by the nervous system. Two classes of proposals will be considered in response to this solicitation: Research Proposals describing collaborative research projects, and Data Sharing Proposals to enable sharing of data and other resources.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14504

Applied Mathematics

Funding Opportunity Number: PD-10-1266

Application Deadline: November 15, 2014

Description: The Applied Mathematics program supports mathematics research motivated by or having an effect on problems arising in science and engineering. Mathematical merit and novelty, as well as breadth and quality of impact on applications, are important factors. Proposals to develop critical mathematical techniques from individual investigators as well as interdisciplinary teams are encouraged.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5664

Astronomy and Astrophysics Research Grants

Funding Opportunity Number: 12-589

Application Deadline: November 17, 2014

Description: The Astronomy and Astrophysics Research Grants (AAG) Program provides individual investigator and collaborative research grants for observational, theoretical, laboratory and archival data studies in all areas of astronomy and astrophysics, including but not limited to the following areas of study: Planetary Astronomy; Stellar Astronomy and Astrophysics; Stellar Nucleo-synthesis; Galactic Astronomy Extragalactic Astronomy and Cosmology. Proposals submitted to the AAG Program do not require categorization into one of the study areas identified above. Proposals may span multiple disciplines and/or areas of study and may utilize multiple techniques.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf12589

Division of Molecular and Cellular Biosciences: Investigator-initiated research projects

Funding Opportunity Number: 13-510

Application Deadline: November 17, 2014

Description: The Division of Molecular and Cellular Biosciences (MCB) supports quantitative, predictive, and theory-driven fundamental research and related activities designed to promote understanding of complex living systems at the molecular, subcellular, and cellular levels. MCB is soliciting proposals for hypothesis-driven and discovery research and related activities in four core clusters: Molecular Biophysics Cellular Dynamics and Function Genetic Mechanisms Systems and Synthetic Biology MCB gives high priority to research projects that use theory, methods, and technologies from physical sciences, mathematics, computational sciences, and engineering to address major biological questions. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf13510

Mathematical Biology**Funding Opportunity Number:** PD-12-7334**Application Deadline:** November 17, 2014

Description: The Mathematical Biology Program supports research in areas of applied and computational mathematics with relevance to the biological sciences. Successful proposals are mathematically innovative and address challenging problems of interest to members of the biological community. Projects may include development of mathematical concepts and tools traditionally seen in other disciplinary programs within the Division of Mathematical Sciences. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5690

Biological Anthropology**Funding Opportunity Number:** PD-98-1392**Application Deadline:** November 17, 2014

Description: The Physical Anthropology Program supports basic research in areas related to human evolution and contemporary human biological variation. Research areas supported by the program include, but are not limited to, human genetic variation, human adaptation, human osteology and bone biology, human and nonhuman primate paleontology, functional anatomy, and primate socioecology. Grants supported in these areas are united by an underlying evolutionary framework, and often a consideration of adaptation as a central theoretical theme. Many proposals also have a biocultural orientation. The program frequently serves as a bridge within NSF between the social and behavioral sciences and the natural and physical sciences, and proposals are commonly jointly reviewed and funded with other programs. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5407

Dynamics of Coupled Natural and Human Systems**Funding Opportunity Number:** 14-601**Application Deadline:** November 18, 2014

Description: The Dynamics of Coupled Natural and Human Systems (CNH) Program supports interdisciplinary research that examines human and natural system processes and the complex interactions among human and natural systems at diverse scales. Research projects to be supported by CNH must include analyses of four different components: (1) the dynamics of a natural system; (2) the dynamics of a human system; (3) the processes through which the natural system affects the human system; and (4) the processes through which the human system affects the natural system. CNH also supports research coordination networks (CNH-RCNs) designed to facilitate activities that promote future research by broad research communities that will include all four components necessary for CNH funding. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14601

Ecology and Evolution of Infectious Diseases**Funding Opportunity Number:** 14-592**Application Deadline:** November 19, 2014

Description: The Ecology and Evolution of Infectious Diseases program supports research on the ecological, evolutionary, and socio-ecological principles and processes that influence the transmission dynamics of infectious diseases. The central theme of submitted projects must be quantitative or computational understanding of pathogen transmission dynamics. The intent is discovery of principles of infectious disease transmission and testing mathematical or computational models that elucidate infectious disease systems. Proposals for research on disease systems of public health concern to developing countries are strongly encouraged, as are disease systems of concern in agricultural systems. Investigators are encouraged to develop the appropriate multidisciplinary team, with the goal of integrating knowledge across disciplines to enhance our ability to predict and control infectious diseases. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14592

Management and Operation of the National Radio Astronomy Observatory**Funding Opportunity Number:** 14-568**Application Deadline:** November 25, 2014

Description: Proposals are solicited to manage and operate facilities of the National Radio Astronomy Observatory (NRAO) through a cooperative agreement with the National Science Foundation (NSF). The Awardee will work closely with NSF and the scientific community to ensure that NRAO continues to support, sustain, and advance frontier science as enabled by unique research capabilities and as promoted through a culture of excellence. In cooperation with NSF and within available resources, the Awardee will plan and execute a viable, coherent, and

inclusive program to support multi-user research and education, consistent with the objectives and priorities of the scientific community. The Awardee will manage facilities and equipment provided by NSF and by domestic and international partners, will provide additional facilities and equipment as necessary to fulfill the proposed programmatic scope, and will provide support and technical personnel to manage NRAO as a well-integrated facility to support research and education. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14568

Sociology Program - Doctoral Dissertation Research Improvement Awards

Funding Opportunity Number: 14-604

Application Deadline: November 25, 2014

Description: The Sociology Program supports basic research on all forms of human social organization -- societies, institutions, groups and demography -- and processes of individual and institutional change. The Program encourages theoretically focused empirical investigations aimed at improving the explanation of fundamental social processes. Included is research on organizations and organizational behavior, population dynamics, social movements, social groups, labor force participation, stratification and mobility, family, social networks, socialization, gender roles, and the sociology of science and technology. The Program supports both original data collections and secondary data analysis that use the full range of quantitative and qualitative methodological tools. The Sociology Program funds doctoral dissertation research to defray direct costs associated with conducting research. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14604

IUSE/Professional Formation of Engineers: Revolutionizing Engineering Departments

Funding Opportunity Number: 4-602

Application Deadline: November 26, 2014

Description: The NSF Engineering (ENG) Directorate is launching a multi-year initiative, the Professional Formation of Engineers, to create and support an innovative and inclusive engineering profession for the 21st Century. Professional Formation of Engineers (PFE) refers to the formal and informal processes and value systems by which people become engineers. It also includes the ethical responsibility of practicing engineers to sustain and grow the profession. The engineering profession must be responsive to national priorities, grand challenges, and dynamic workforce needs; it must be equally open and accessible to all. In FY 2015 the PFE initiative in ENG is launching a pilot program aligned with the IUSE framework: Revolutionizing Engineering Departments (herein referred to as RED), in partnership with the Directorates for Computer and Information Science and Engineering (CISE) and Education and Human Resources (EHR).

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14602

USAID

Improved Services for Vulnerable Populations (ISVP)

Funding Opportunity Number: RFA-696-14-000002

Application Deadline: November 26, 2014

Description: The United States Government, as represented by the United States Agency for International Development in Rwanda (USAID/Rwanda) is seeking applications from qualified and eligible organizations for a five-year activity to improve and sustain the health and social wellbeing of Orphans and Vulnerable Children (OVC) and People Living with HIV/AIDS (PLHIV), their households, and communities in Rwanda. It is USAID policy not to award profit under assistance instruments. However, all reasonable, allocable, and allowable expenses, both direct and indirect, which are related to the grant program and are in accordance with applicable cost standards (22 CFR 226, OMB Circular A-122 for non-profit organizations, OMB Circular A-21 for universities, and the Federal Acquisition Regulation (FAR) Part 31 for-profit organizations), may be paid under the agreement. Subject to the availability of funds, USAID intends to provide approximately \$37 million to be allocated over the 5-year period. USAID anticipates awarding one cooperative agreement as a result of this solicitation.

<http://www.grants.gov/web/grants/search-grants.html?keywords=RFA-696-14-000002>

USAID Better Outcomes for Children & Youth in Central & Western Uganda

Funding Opportunity Number: RFA-617-14-000014

Application Deadline: December 2, 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 enable more than 600,000 Ugandan

children, youth and their caregivers, particularly HIV affected children and youth in Central and Western Regions, to access core services for improving health, nutrition, food security, education, and psychosocial well-being and to prevent, and respond to child abuse, exploitation and neglect. The activity will achieve this purpose by looking at most promising international practices and providing carefully conceived, well-designed measures for building the capacity of children and youth, families, communities and government systems. The activity will further strengthen linkages between clinical and community-based socio-economic services in Central and Western Regions to provide better coordinated, regionalized support, particularly for very young children and youth, at the most local level. <http://www.grants.gov/web/grants/search-grants.html?keywords=%20RFA-617-14-000014>

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