

Momentum with innovation, technology transfer and entrepreneurship @ FIU



July 2015
Issue

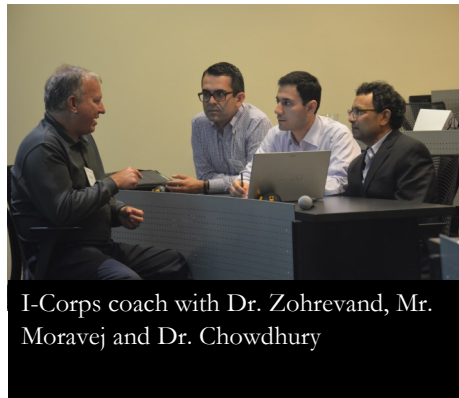
Upcoming Events
(page 2)

Awards May 2015
(page 2)

Limited Submissions
(page 8)

Funding
Opportunities
(Excel file attached)

In order to develop and nurture an entrepreneurial culture in the nation, the National Science Foundation (NSF) established the **Innovation Corps Teams Program (I-Corps)**. The program aims to transfer scientific and engineering discoveries into commercially viable products and services. I-Corps connects NSF-funded researchers with the business community and entrepreneurs to foster innovation and technology transfer.



I-Corps coach with Dr. Zohrevand, Mr. Moravej and Dr. Chowdhury

One FIU team recently participated in the fast-paced and rigorous program. The “**Innovative Hurricane Damage Mitigation Systems**” team included Dr. Arindam Gan Chowdhury, Dr. Amir Mirmiran, PhD student Mohammadtaghi Moravej and Dr. Pedram Zohrevand, the team’s mentor. Dr. Zohrevand is an Assistant City Engineer of the City of Fort Lauderdale. The team was looking at the commercialization feasibility of new high performance hurricane damage mitigation technology developed by Dr. Chowdhury and Dr. Mirmiran.

The “**Analytical Chemistry for Everyone: What’s in your Air?**” team will be going through the NSF I-Corps program during the summer. The team includes Dr. José Almirall, Dr. Natasha Kreitals (visiting postdoctoral fellow at the IHRC) and Mr. Digno Caballero (mentor), a former Senior VP of Strategic Projects at Bacardi. The team will be looking at the commercialization potential of Dr. Almirall’s research in Capillary Microextractor of Volatiles (CMV) technology as a potential research laboratory consumable for scientists currently using SPME and Tenax tubes for air sampling, and for other applications for use by the general public. The team (pictured at right) recently participated at e-Merge Americas event held in April.

If you have received NSF funding in the last five years, have interest in the NSF I-Corps Teams Program and would like further information, please contact FIU’s Director of Technology Management and Commercialization [Peter Hernandez](#) at (305) 348-3051.

Teams representing biomedical engineering technologies from Dr. Ranu Jung and Dr. Anuradha Godavarty finished first and second place at the annual **StartUp Quest Pitch Day**. StartUp Quest uses technologies from the different state universities in multiple disciplines ranging from software engineering to bioscience. At this year’s Broward Pitch Day, FIU sponsored three teams. Each team was paired with two mentors who are CEOs, entrepreneurs, and business people from various backgrounds. The mentors have extensive experience in bringing technology to market and providing support to team members throughout the 10-week preparation process.

The winning pitch was presented by team **Hercules MedSystems**. Their technology was taken from the Adaptive Neural Systems (ANS) laboratory that created an advanced prosthetic system to restore sensation to an upper-extremity amputee. The system has sensors embedded into the prosthetic hand that help provide the amputee with the sensations of fingertip force and hand opening. The system development received federal support from the National Institute of Biomedical Imaging and Bioengineering and the National Institute of Child Health Development.

The second place winners, team **LightScan Health Systems**, worked with Anuradha Godavarty and her research on a hand-held breast cancer pre-screening device. Team LightScan created a business plan and an investor pitch that focused on the affordability and non-invasive nature of the device. It has the potential to provide widespread pre-screening to breast cancer patients throughout the world. This technology received federal support from the National Cancer Institute.



Upcoming Events

- **July 27, 2015, 12:00 pm to 1:00 pm, WC 130, [Aldrin V. Gomes](#), Ph.D., Associate Professor, Department of Neurobiology, Physiology, and Behavior, University of California, Davis, will be speaking about an investigation into the molecular mechanisms associated with nonsteroidal anti-inflammatory drugs (NSAIDs) cardiotoxicity which suggest that proteasome dysfunction (decreased activity) and apoptosis are responsible for most of the cardiotoxicity. This event is co-sponsored by the Biomolecular Sciences Institute and the School of Integrated Science and Humanity. For more information [click here](#).**

Awards Received—May 2015

FIU researchers were awarded \$4,636,030 in May 2015. Below is a listing of awards received.

PI: Joann Arnowitz

JEWISH MUSEUM OF FLORIDA-FIU

Award Action Type: Initial

AWARDING SPONSOR: City of Miami Beach

TITLE: JMOF General Support Grant FY14-15

AWARD: \$ 49,500

PI: Kevin Boswell

BIOLOGY

Award Action Type: Increase

AWARDING SPONSOR: Industrial Economics Inc

TITLE: Analysis of acoustic data from Deep Water Horizon

AWARD: \$ 66,000

PI: Kevin Boswell

BIOLOGY

Award Action Type: Pre-Award

AWARDING SPONSOR: University of Miami

TITLE: Examining the status and distribution of reef fish spawning

AWARD: \$ 20,000

PI: Kevin Boswell

BIOLOGY

Award Action Type: Initial

AWARDING SPONSOR: Prince William Sound Science Center

TITLE: HRM - Non lethal sampling: In situ estimation of juvenile herring sizes

AWARD: \$ 54,928

PI: Eric Thomas Brew

COE TEACHING AND LEARNING

Award Action Type: Initial

AWARDING SPONSOR: National Science Foundation

TITLE: Graduate Research Fellowship Program

AWARD: \$ 11,410

PI: Kathryn Elizabeth Brogan

DIETETICS AND NUTRITION

Award Action Type: Initial

AWARDING SPONSOR: Wayne State University

TITLE: Project for Enhancement and Alignment of the Continuum of Care for HIV

AWARD: \$ 13,357

PI: Maria C Donoso

EARTH AND ENVIRONMENT

Award Action Type: Increase

AWARDING SPONSOR: US Agency for International Development

TITLE: Tanzania Integrated Water, Sanitation and Hygiene (iWASH)

AWARD: \$ 299,960

PI: Nazira El-hage
COM IMMUNOLOGY
Award Action Type: Continuation
AWARDING SPONSOR: National Institutes of Health
TITLE: Role of Autophagy in Microglia-induced NeuroAIDS in Substance Abuse **AWARD:** \$ 312,916

PI: James Fourqurean
BIOLOGY
Award Action Type: Increase
AWARDING SPONSOR: Office of Naval Research
TITLE: Deep Saturation Dive Training **AWARD:** \$ 153,873

PI: James Fourqurean
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: National Park Service
TITLE: Dry Tortugas National Park Seagrass Communities Assessment **AWARD:** \$ 30,000

PI: James Fourqurean
BIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: Ocean Reef Community Foundation
TITLE: Family Science Nights **AWARD:** \$ 2,000

PI: Arindam Gan Chowdhury
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: NSF I-Corps: "Innovative Hurricane Damage Mitigation Systems" **AWARD:** \$ 40,000

PI: Cheng-Tin Gan
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Transportation
TITLE: Development of 2016 Florida Transit Information System (FTIS) **AWARD:** \$ 114,507

PI: Nicholas R Gelpi
ARCHITECTURE
Award Action Type: Initial
AWARDING SPONSOR: FIU Foundation
TITLE: Woodcrete: The Concrete for a Sustainable Future **AWARD:** \$ 72,750

PI: Jeffrey A Groom
NURSING UNDERGRADUATE
Award Action Type: Increase
AWARDING SPONSOR: Sheridan HealthCorp Inc.
TITLE: Sheridan HealthCorp Faculty Support Agreement **AWARD:** \$ 127,548

PI: Mohammed A Hadi
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: URS Corporation
TITLE: FITSEVAL Testing and Utilization Support **AWARD:** \$ 3,539

PI: Katie Hart
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: Children's Trust
TITLE: Read to Learn Summer Reading Explorer's Program **AWARD: \$** 135,526

PI: Leonel E Lagos
ARC APPLIED RESEARCH CENTER
Award Action Type: Increase
AWARDING SPONSOR: Office of Environmental Management
TITLE: FIU's Research Support to DOE OEM **AWARD: \$** 121,862

PI: Leonel E Lagos
ARC APPLIED RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: General Infomatics Inc.
TITLE: Cyber Space Technology Research and STEM Development **AWARD: \$** 30,000

PI: Angela Marie Richmond Laird
PHYSICS
Award Action Type: Initial
AWARDING SPONSOR: UT Health Science Center San Antonio
TITLE: Meta-Analysis in Human Brain Mapping **AWARD: \$** 110,762

PI: Tao Li
COMPUTER INFO SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: BDD: Data-Driven Techniques to Address Critical Information Exchange Needs in Disaster **AWARD: \$** 299,998

PI: Tao Li
COMPUTER INFO SCIENCES
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: BDD: Data-Driven Techniques to Address Critical Information Exchange Needs in Disaster: REU supplement **AWARD: \$** 16,000

PI: Wenzhi Li
PHYSICS
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Nanostructured Electrochemical Materials **AWARD: \$** 293,784

PI: Joongho Moon
CHEMISTRY
Award Action Type: Continuation
AWARDING SPONSOR: National Science Foundation
TITLE: CAREER: Self-assembled Biodegradable Conjugated Polymers **AWARD: \$** 94,044

PI: Heidi Morgan

CIARA

Award Action Type: Increase

AWARDING SPONSOR: University of Chicago

TITLE: Open Science Data Cloud(OSDC)PIRE:Training and Workshops **AWARD: \$** 11,149

PI: Edward P Murray

METROPOLITAN CENTER

Award Action Type: Initial

AWARDING SPONSOR: City of West Miami

TITLE: City of West Miami Comprehensive Plan Update **AWARD: \$** 37,000

PI: Madhavan P Nair

COM IMMUNOLOGY

Award Action Type: Continuation

AWARDING SPONSOR: National Institutes of Health

TITLE: Multifunctional Nanocarrier to Eradicate HIV from latently infected **AWARD: \$** 357,062

PI: Winifred Elysse Newman

ARCHITECTURE

Award Action Type: Initial

AWARDING SPONSOR: Li'l Abner Foundation

TITLE: Sweetwater Community Center **AWARD: \$** 8,104

PI: Sudheesh Pilakka Kanthikeel

INSTITUTE OF NEUROIMMUNE PHARM

Award Action Type: Initial

AWARDING SPONSOR: National Institutes of Health

TITLE: Cocaine mediated downregulation of SAMHD1 facilitates HIV-1 **AWARD: \$** 145,000

PI: Bianca Caroline Premo

HISTORY

Award Action Type: Initial

AWARDING SPONSOR: University of Texas at Austin

TITLE: Enlightenment on Trial, University of Texas- Austin Residential Fellowship **AWARD: \$** 50,600

PI: Raju Rangaswami

COMPUTER INFO SCIENCES

Award Action Type: Increase

AWARDING SPONSOR: National Science Foundation

TITLE: CSR: Small: Non-blocking Writes **AWARD: \$** 16,000

PI: Jennifer Rehage

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Initial

AWARDING SPONSOR: South Florida Water Management District

TITLE: Role of Florida Bay coastal embayments as fish habitat: nursery **AWARD: \$** 15,938

PI: Jennifer Rehage

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Initial

AWARDING SPONSOR: Bonfish & Tarpon Unilimited

TITLE: Effects of contaminants on coastal fisheries: a literature review **AWARD: \$** 42,609

PI: Naphtali D Rishe
COMPUTER INFO SCIENCES
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: III. Large: Collaborative Research: Moving Objects Databases for Exploration **AWARD: \$** 16,000

PI: Naphtali D Rishe
COMPUTER INFO SCIENCES
Award Action Type: Continuation
AWARDING SPONSOR: National Science Foundation
TITLE: CREST-I/UCRC-Industry Ecosystem to Pipeline Research **AWARD: \$** 12,000

PI: Misak Sargsian
PHYSICS
Award Action Type: Continuation
AWARDING SPONSOR: U.S. Department of Energy
TITLE: Theoretical Studies of High Energy Electron-Nuclear Processes **AWARD: \$** 90,000

PI: Misak Sargsian
PHYSICS
Award Action Type: Continuation
AWARDING SPONSOR: Jefferson Lab
TITLE: Hadron Spectroscopy at Jefferson Lab **AWARD: \$** 12,971

PI: Arif Islam Sarwat
ELEC AND COMPUTER ENG
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: Collaborative Research:RIPS Type 2: Vulnerability Assessment **AWARD: \$** 12,000

PI: Arif Islam Sarwat
ELEC AND COMPUTER ENG
Award Action Type: Supplemental
AWARDING SPONSOR: National Science Foundation
TITLE: CPS: Synergy: Collaborative Research: Towards Secure Networked **AWARD: \$** 16,000

PI: Leonard Scinto
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Increase
AWARDING SPONSOR: National Park Service
TITLE: Provide office services and operational technical support to the **AWARD: \$** 403,627

PI: Laurie Jeanne Shrage
PHILOSOPHY
Award Action Type: Initial
AWARDING SPONSOR: Harvard University
TITLE: Re-Segregation and Liberal Democracy **AWARD: \$** 64,993

PI: Margaret Sibley
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: Institute of Education Sciences
TITLE: Developing a Peer to Peer Behavioral Intervention for High School **AWARD: \$** 413,030

PI: Xin Sun
COMPUTER INFO SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: CRII:NeTS:Characterizing, Quantifying and Modeling Network Complexity **AWARD:** \$ 74,417

PI: Sabri Tosunoglu
MECHANICAL AND MAT ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: Francisco A. Diaz Donikian
TITLE: Design and Simulation of a Motorized Back Scrubber Device **AWARD:** \$ 5,523

PI: Arif Selcuk Uluagac
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: CAREER: Securing Side-Channels in Cyber-Physical Systems **AWARD:** \$ 107,418

PI: Janie Valdes
TRANSFER AND TRANSITION SVCS
Award Action Type: Supplemental
AWARDING SPONSOR: Florida College System Foundation
TITLE: Credit when it's due **AWARD:** \$ 10,000

PI: Miguel Villodas
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: Florida State University
TITLE: An Evidence-Based Parent-Child Relational Intervention for **AWARD:** \$ 60,000

PI: Anna H Wachnicka Kosiorek
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: South Florida Water Management District
TITLE: Investigating mechanism of algal blooms in Biscayne Bay (Pilot Study) **AWARD:** \$ 5,873

PI: Ophelia I Weeks
BIOLOGY
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: FIU MARC U*STAR Program Yr2 -Ad **AWARD:** \$ 54,432

PI: Ophelia I Weeks
BIOLOGY
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: FIU MARC U*STAR Program Yr2-Student **AWARD:** \$ 120,022

Limited Submission Funding Opportunities

Below are limited submission opportunities with upcoming internal deadlines. Other limited submission funding opportunities are at <http://research.fiu.edu/funding/pages/limited-submissions.html>.

Agency	Program	Institutional Submission Limits	Internal Deadline	Agency Deadline
NIH	Institutional Research and Academic Career Development Awards (IRACDA) (K12) (PAR-13-290)	One per institution	7/24/2015	9/24/2015
NIMHHD	Building Population Health Research Capacity in the U.S. Affiliated Pacific Islands (U24) (RFA-MD-15-011)	One application per organization	9/09/2015	LOI due 11/09/2015 Agency Deadline:12/19/2015
NSF	Research Experiences for Teachers (RET) in Engineering and Computer Science (NSF 15-536)	3 proposals per organization	08/28/2015	11/02/2015
NEH	Summer Stipends (20151001-FT)	2 faculty nominations per institution	08/03/2015	10/01/2015

Funding Opportunities

The funding opportunities are in a separate excel file, which includes a filter for agency, date and opportunity number.

Contact ORED Senior Leadership

Name	Title	Email Address
Andrés G. Gil	Vice President for Research	Andres.gil@fiu.edu
Tonja Moore	Associate Vice President for Research Strategic Planning & Operations	Tonja.moore@fiu.edu
Luis P. Salas	Associate Vice President for Research	Luis.salas@fiu.edu
Mirtha Alberto	Director, Budget & Cost Analysis	Mirtha.alberto@fiu.edu
Henry Artigues	Director, Research Operations & External Partnerships	Henry.artigues@fiu.edu
David Driesbach	Assistant Vice President, Research Information Systems	David.driesbach1@fiu.edu
Christopher Grayson	Director, Research Integrity	Christopher.grayson@fiu.edu
C. Emily Gresham	Assistant Vice President, Innovation & Economic Development	Emily.gresham@fiu.edu
Robert Gutierrez	Assistant Vice President, Pre-Award	Robert.gutierrez@fiu.edu
Pedro Hernández	Director, Technology Management & Commercialization	Pedro.hernandez7@fiu.edu
Maureen Pelham	Director, Research Development	Maure.pelham@fiu.edu
Aida Reus	Director, Post-Award	Aida.reus@fiu.edu
Horatiu Vinerean	Director, Laboratory Animal Research ; Attending Veterinarian	Horatiu.vinerean@fiu.edu
Susan Webster	Director, Training & International Research Initiatives	Susan.webster@fiu.edu



Think differently,

go beyond the **world** you know.

Do something great

with the opportunity you are given.

**Be Worlds
Ahead**

OFFICE OF RESEARCH AND ECONOMIC DEVELOPMENT

11200 SW 8th Street

MARC 430

Miami, FL 33199

<http://research.fiu.edu>