

StartUP FIU: sparking creativity, ingenuity, and technology transfer among faculty, students and entrepreneurs

**February 2016
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*Happy
Valentine's
Day*

FIU's Innovation and Economic Development (IED) unit within the Office of Research and Economic Development (ORED) recently reached an agreement with Miami MedTech (MMT) to bring them to FIU's Modesto Maidique Campus (MMC). The first external startup company to co-locate at FIU, MMT is an innovation center for the medical device industry, providing leadership and resources to translate ideas about medical needs into commercially viable solutions. Located in the OE building, MMT employees plan to work closely with FIU faculty and students to develop its company.

These types of partnerships mark an exciting new role for FIU in Miami's innovation and entrepreneurship ecosystem as plans are well underway to launch StartUP FIU—a University-wide effort to stimulate and support collaboration among faculty, students and entrepreneurs towards the creation and development of local high impact companies. The FIU-MMT agreement is the beginning of an initiative to overcome a regional hurdle—the lack of comprehensive support to foster healthcare innovation through private/academic partnerships. The goal is to create the ideal incubator-type ecosystem in South Florida for inventive and entrepreneurial scientists, researchers and medical professionals to realize the commercial potential of their medical device ideas.

The FIU-MMT collaboration presents a great opportunity for economic development in Miami. The medical devices industry represents a \$500B market in which 80 percent of inventions originate from users. Founded by two entrepreneurs with vast experience in medical innovation, Dr. Pedro Martínez Clark, a board-certified interventional cardiologist, and Mr. Max Méndez, a medical device developer and former FIU student in mechanical engineering, MMT is currently developing a product that will provide 150,000 otherwise ineligible patients with access to a cardiovascular treatment device that is far less invasive than conventional approaches. MMT is also working with other local and international innovators, leveraging its unique clinical network in Latin America, to identify a strong portfolio of projects and products with tremendous potential to impact global healthcare.

MMT is just the first of what is expected to be many innovation opportunities available to early stage startups, FIU students and faculty under the auspices of StartUP FIU. Through StartUP FIU, the University is creating the infrastructure to coordinate ongoing efforts to advance its innovative technologies, launch companies and generate jobs for our community. To be located in an 8,000 sf incubator on the third floor of the MARC building, StartUP FIU will deliver signature programming, such as its 13-week program for teams of entrepreneurs that culminates in pitching to real investors, to support the formation of new technology companies. Companies co-locating at FIU will have access to FIU's facilities and resources, experts and entrepreneurs in residence, and collaboration with innovative and entrepreneurial faculty and students. Partnering with existing University resources such as the College of Business's Small Business Development Center, CARTA's Miami Beach Urban Studios, SCIS's TechStation, ORED's Technology Transfer and Commercialization unit, the College of Law's Small Business Clinic, the Honors College, and the College of Engineering and Computing, StartUP FIU will be a one-stop shop for entrepreneurs interested in starting their own businesses.

In another exciting development for the IED unit, Dr. Shekhar Bhansali, Dr. Yogeswaran Umasankar, and Mr. Peter Hernández recently received an Innovation Corps (I-Corps) award from the National Science Foundation (NSF) with support from FIU's Technology Management and Commercialization unit. Dr. Bhansali, chair of the Electrical and Computer Engineering Department, will be the Principal Investigator (the second time that he has served in this capacity on a NSF I-Corps); Dr. Umasankar, a postdoctoral associate, will be the Entrepreneurial Lead for the team; and Mr. Hernández, Director of FIU's Technology Management and Commercialization unit, will be the team's mentor. The team will be exploring the commercial feasibility of a device developed by Dr. Umasankar, a wearable transdermal alcohol sensor capable of continually monitoring the blood alcohol content of its wearer. The activities that this I-Corps team will focus on include development of a working prototype, determination of potential customer needs and requirements, and preparation to launch a company.

Upcoming Events

February 2016

- February 3, 10 am to 12 noon, MARC Pavilion, *Global Energy Outlook to 2040*, [RSVP required](#)
- February 3, 11 am to 5:30 pm, CBC Special Events Center, *SLSC All-Hands Meeting*—[RSVP required](#)
- February 3, 12 to 1:30 pm, Faculty Club, Faculty Mentor Program Lunch Gathering—[RSVP for 2/3Mentor Lunch](#)
- February 4, 12 to 1:30 pm, Faculty Club, Faculty Mentor Program Lunch Gathering—[RSVP for 2/4 Mentor Lunch](#)
- February 5, 9 to 10 am, Engineering Campus (EC) #2300, *Improvements in Ocular Blood Flow and Vision following Electro-Stimulation Therapies for Retinal Disease*, presented by [Ava Bittner](#)
- February 5, 3 to 4 pm, EC #2300, *Insights into the Culture of the Department of Defense and its Impact on Applied Research Requirements*, presented by [Joseph Sinicrope](#)
- February 11, 8:30 am to 5 pm, EC #2300, *2016 Workshop of Origami Design for Integration of Self-Assembling Systems for Engineering Innovation*, organized by Stavros Georgakopoulos
- February 12, 8:30 to 11:30 am, MARC Pavilion, *2016 Workshop of Origami Design for Integration of Self-Assembling Systems for Engineering Innovation*, organized by Stavros Georgakopoulos
- February 12, 9 to 10 am, EC #2300, *Neuronal Injury, Plasticity and Respiratory Rehabilitation*, presented by [David Fuller](#)
- February 19, 8:30 am to 2:30 pm, EC #2300, *6th Annual Undergraduate Research Day*
- February 22, 9 am to 12 noon, WC 130, *NIH Funding Programs and Resources Seminar for Academic Innovators and Entrepreneurs*, [RSVP required](#).

March 2016

- March 1 & 2, 8 am to 5 pm, MARC Pavilion, *6th International Conference on Global Health*. [RSVP required](#).
- March 3 & 4, 8 am to 6 pm, MARC Pavilion, *18th Annual Biomedical and Comparative Immunology Symposium*
- March 4, 9 to 10 am, EC 2300, *Heart Valve Development and Disease Mechanisms*, presented by [Katherine Yutzey](#)
- March 11, 9 to 10 am, EC 2300, *3D Data*, presented by [Amir Shmuel](#)
- March 11, 2 to 3 pm, ECS 241, *Understanding, Designing and Developing Natural User Interactions for Children*, presented by [Lisa Anthony](#).
- March 18, 2 to 3 pm, ECS 241, *Using Process Modeling and Analysis Techniques to Reduce Errors in Healthcare*, presented by [Lori A. Clarke](#).
- March 25, 9 to 10 am, EC 2300, *The Light Works: Non-invasive 3D Optical Imaging of Tissue Morphology and Microcirculations in Vivo*, presented by [Ruikang \(Ricky\) Wang](#)
- March 25, 2 to 3 pm, ECS 241, *SCIS Distinguished Women Lecture Series*, presented by [Tracy Camp](#).

Awards Received—December 2015

FIU researchers were awarded \$10,413,487 in December 2015. Below is a listing of awards received.

PI: Malek Adjouadi

ELEC AND COMPUTER ENG

Award Action Type: Initial

AWARDING SPONSOR: National Science Foundation

TITLE: MRI: Development of an Integrated Neuroimaging Instrument **AWARD:** \$ 3,755,112

PI: Marisela Agudelo

COM IMMUNOLOGY

Award Action Type: Increase

AWARDING SPONSOR: National Institutes of Health

TITLE: EtOH-induced Immunomodulation: Role of Histone Deacetylases **AWARD:** \$ 25,257

PI: Benjamin C Amick Iii HEALTH POLICY AND MGMT Award Action Type: Initial AWARDING SPONSOR: Univ of Texas Health Science Ctr Houston TITLE: Service Agreement - New Year New You	AWARD: \$	22,669
PI: Joann Arnowitz JEWISH MUSEUM OF FLORIDA-FIU Award Action Type: Initial AWARDING SPONSOR: Miami-Dade County Cultural Affairs TITLE: FY 2015-2016 (MCI) Grants Program	AWARD: \$	161,386
PI: Shekhar Bhansali ELEC AND COMPUTER ENG Award Action Type: Supplemental AWARDING SPONSOR: North Carolina State University TITLE: Advanced Self-Powered Systems of Integrated Sensor Technologies	AWARD: \$	145,817
PI: Shekhar Bhansali ELEC AND COMPUTER ENG Award Action Type: Supplemental AWARDING SPONSOR: North Carolina State University TITLE: Advanced Self-Powered Systems of Integrated Sensor Technologies	AWARD: \$	34,108
PI: Eric Bishop-Von Wettberg BIOLOGY Award Action Type: Increase AWARDING SPONSOR: University of California Davis TITLE: Deducing the genomic footprint and functional impact of chickpea	AWARD: \$	214,548
PI: Kevin Mershon Boswell INST OF WATER AND ENVIRONMENT Award Action Type: Increase AWARDING SPONSOR: Industrial Economics Inc TITLE: Analysis of acoustic data from Deep Water Horizon	AWARD: \$	11,878
PI: Lakhdar Boukerrou INST OF WATER AND ENVIRONMENT Award Action Type: Supplemental AWARDING SPONSOR: US Agency for International Development TITLE: West Africa Water Supply	AWARD: \$	513,775
PI: Henry Briceno SOUTHEAST ENV RESEARCH CTR Award Action Type: Initial AWARDING SPONSOR: Islamorada, Village of Islands TITLE: Water Quality Monitoring Program for the Village of Islamorada	AWARD: \$	72,443
PI: Shu-Ching Chen INTERNATIONAL HURRICANE CENTER Award Action Type: Supplemental AWARDING SPONSOR: Florida Office of Insurance Regulation TITLE: FPHL Model Operation and Maintenance, and Model Upgrades	AWARD: \$	3,811

PI: Erika K Coles CENTER FOR CHILDREN AND FAM Award Action Type: Initial AWARDING SPONSOR: Nova Southeastern University TITLE: Behavior Assessment Team	AWARD: \$	6,600
PI: Jose Miguel Cruz LATIN AMERICAN AND CARIB CTR Award Action Type: Initial AWARDING SPONSOR: Open Society Foundations TITLE: Systematization of the Community-Based Police in El Salvador	AWARD: \$	67,329
PI: Ronald Philip Fisher PSYCHOLOGY Award Action Type: Initial AWARDING SPONSOR: Federal Bureau of Investigation TITLE: Interviewing information sources twice with the Cognitive Interview	AWARD: \$	187,883
PI: James Fourqurean SOUTHEAST ENV RESEARCH CTR Award Action Type: Initial AWARDING SPONSOR: Islamorada, Village of Islands TITLE: Baseline Monitoring of Canals in the Village of Islamorada	AWARD: \$	17,454
PI: Arindam Gan Chowdhury INTERNATIONAL HURRICANE CENTER Award Action Type: Initial AWARDING SPONSOR: Florida Division of Emergency Management TITLE: FIU's Hurricane Loss Reduction for Housing in Florida	AWARD: \$	282,389
PI: Orlando J Garcia MUSIC Award Action Type: Initial AWARDING SPONSOR: Earle Brown Music Foundation TITLE: New Music Miami Brown Feldman Concert	AWARD: \$	3,000
PI: Ismail Guvenc ELEC AND COMPUTER ENG Award Action Type: Increase AWARDING SPONSOR: DOCOMO Innovations Inc TITLE: Compressive Sensing for Improving Accuracy of Fingerprint	AWARD: \$	25,000
PI: Mohammed A Hadi CIVIL AND ENVIRON ENGINEERING Award Action Type: Supplemental AWARDING SPONSOR: University of Florida TITLE: STRIDE Internal Steering Committee	AWARD: \$	997
PI: Mohammed A Hadi CIVIL AND ENVIRON ENGINEERING Award Action Type: Supplemental AWARDING SPONSOR: University of Florida TITLE: STRIDE Internal Steering Committee	AWARD: \$	6,999

PI: Julio E Ibarra CIARA Award Action Type: Continuation AWARDING SPONSOR: Assoc of Univs for Rsrch in Astronomy TITLE: Large Synoptic Survey Telescope (LSST)	AWARD: \$	1,525,001
PI: Julio E Ibarra CIARA Award Action Type: Initial AWARDING SPONSOR: National Science Foundation TITLE: Campus Cyber Infrastructure- CC*DNI	AWARD: \$	200,787
PI: Maria Ilcheva METROPOLITAN CENTER Award Action Type: Initial AWARDING SPONSOR: Miami-Dade County Transit TITLE: Miami-Dade Transit Department: 2015 Employee Satisfaction Survey	AWARD: \$	24,500
PI: Xia Jin CIVIL AND ENVIRON ENGINEERING Award Action Type: Initial AWARDING SPONSOR: Florida Department of Transportation TITLE: Incorporating Transit Service Decisions into Express Lane Programs	AWARD: \$	159,720
PI: Jeremy Kiszka BIOLOGY Award Action Type: Initial AWARDING SPONSOR: Fondation D'Entreprise Total TITLE: The behavioral ecology of green sea turtles in the French Antilles:	AWARD: \$	138,660
PI: Chenzhong Li BIOMEDICAL ENGINEERING Award Action Type: Initial AWARDING SPONSOR: Northeastern University TITLE: NRT-IGE: Nanomedicine Academy	AWARD: \$	15,000
PI: Debra Lundy SCH OF HOSP AND TOURISM MGMT Award Action Type: Initial AWARDING SPONSOR: Miami-Dade County Cultural Affairs TITLE: 2015-16 FEST South Beach Wine & Food Festival	AWARD: \$	78,041
PI: Bruce Mc Cord CHEMISTRY Award Action Type: Initial AWARDING SPONSOR: QIAGEN TITLE: Internal Validation of QIAGEN's Investigator 24plex (6 dye) STR kit	AWARD: \$	27,340
PI: April Ruth Merleaux HISTORY Award Action Type: Initial AWARDING SPONSOR: National Endowment for the Humanities TITLE: Ecohumanities for Cities in Crisis	AWARD: \$	162,242

PI: Osama A Mohammed ELEC AND COMPUTER ENG Award Action Type: Increase AWARDING SPONSOR: University of Arkansas TITLE: An Interdisciplinary Approach to Integratable, Composable	AWARD: \$	289,970
PI: Francisco Mora LATIN AMERICAN AND CARIB CTR Award Action Type: Increase AWARDING SPONSOR: Tinker Foundation Inc. TITLE: Tinker Field Research Grant	AWARD: \$	15,000
PI: Norman D Munroe OSAS ENGINEERING AND COMPUTING Award Action Type: Initial AWARDING SPONSOR: Children's Trust TITLE: FIU -ENLACE 15-16	AWARD: \$	412,903
PI: Richard Olson INTERNATIONAL HURRICANE CENTER Award Action Type: Initial AWARDING SPONSOR: Florida Division of Emergency Management TITLE: FIU's Hurricane Loss Reduction for Housing in Florida	AWARD: \$	284,671
PI: Timothy F Page HEALTH POLICY AND MGMT Award Action Type: Initial AWARDING SPONSOR: Meharry Medical College TITLE: Development of an Online Certificate in Health Economics	AWARD: \$	16,536
PI: Jordana Pomeroy FROST ART MUSEUM Award Action Type: Initial AWARDING SPONSOR: Florida Division of Cultural Affairs TITLE: General Support Program 2015-2016	AWARD: \$	67,258
PI: Allan Rosenbaum INST PUB MGMT & COMM SERVICE Award Action Type: Initial AWARDING SPONSOR: Miami-Dade County Cultural Affairs TITLE: TDC XXII Inter-American Conference of Mayors and Local	AWARD: \$	14,400
PI: Nicole Ruggiano SCHOOL OF SOCIAL WORK Award Action Type: Initial AWARDING SPONSOR: Gerontological Society of America TITLE: Expansion of Health Information Technology for Hispanic Dementia	AWARD: \$	9,966
PI: Jay Sah SOUTHEAST ENV RESEARCH CTR Award Action Type: Initial AWARDING SPONSOR: South Florida Water Management District TITLE: Status of Vegetation Structure and Composition within the Habitat	AWARD: \$	38,000

PI: Arif Islam Sarwat ELEC AND COMPUTER ENG Award Action Type: Initial AWARDING SPONSOR: National Science Foundation TITLE: CAREER: Cyber Physical Solution for High Penetration Renewables	AWARD: \$	82,837
PI: Althea M Silvera LIBRARY OPERATIONS Award Action Type: Initial AWARDING SPONSOR: Center for Research Libraries TITLE: Guantanamo Naval Base Newspapers Digitization Project	AWARD: \$	5,000
PI: Jacqueline Bueno Sousa COB DEANS OFFICE Award Action Type: Initial AWARDING SPONSOR: University of West Florida TITLE: FSBDC 2016 - YR 3	AWARD: \$	128,440
PI: Jacqueline Bueno Sousa COB DEANS OFFICE Award Action Type: Initial AWARDING SPONSOR: University of West Florida TITLE: FSBDC 2016 - YR 3	AWARD: \$	9,329
PI: Jacqueline Bueno Sousa COB DEANS OFFICE Award Action Type: Initial AWARDING SPONSOR: University of West Florida TITLE: FSBDC 2016 - YR 3	AWARD: \$	58,321
PI: Casey Steadman THE WOLFSONIAN Award Action Type: Supplemental AWARDING SPONSOR: Emily Hall Tremaine Foundation TITLE: Philodendron: From Pan-Latin Exotic to American Modern	AWARD: \$	25,000
PI: John Stuart ARCHICT AND THE ARTS DEANS OFF Award Action Type: Initial AWARDING SPONSOR: City of Miami Beach TITLE: City of Miami Beach Junior Cultural Anchor Grant 2015-2016	AWARD: \$	24,364
PI: Michael C Sukop SOUTHEAST ENV RESEARCH CTR Award Action Type: Initial AWARDING SPONSOR: Colorado State University TITLE: Urban Water Innovation Network (U-WIN): Transitioning	AWARD: \$	71,181
PI: Berrin Tansel CIVIL AND ENVIRON ENGINEERING Award Action Type: Initial AWARDING SPONSOR: U.S. Department of Transportation TITLE: Dwight David Eisenhower Transportation Fellowship Program	AWARD: \$	2,000

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PI: Joel Trexler SOUTHEAST ENV RESEARCH CTR Award Action Type: Supplemental AWARDING SPONSOR: Springer TITLE: Oecologia Editor-in-Chief	AWARD: \$ 100,836
PI: Diana Valle-Riestra COE COMMUNITY ENGAGEMENT Award Action Type: Initial AWARDING SPONSOR: University of Central Florida TITLE: Project Panther LIFE 2015-2020 Florida Consortium on Inclusive	AWARD: \$ 96,078
PI: Feion Villodas CENTER FOR CHILDREN AND FAM Award Action Type: Initial AWARDING SPONSOR: Children's Trust TITLE: After-school support program for youth at-risk for behavior problems	AWARD: \$ 158,133
PI: Chunlei Wang ELEC AND COMPUTER ENG Award Action Type: Supplemental AWARDING SPONSOR: North Carolina State University TITLE: Advanced Self-Powered Systems of Integrated Sensor Technologies	AWARD: \$ 72,000
PI: Yi Xiao BIOMOLECULAR SCIENCE INSTITUTE Award Action Type: Increase AWARDING SPONSOR: National Institutes of Health TITLE: Aptamer-Based, Exonuclease-Amplified, Colorimetric, Onsite	AWARD: \$ 295,546
PI: Yi Xiao BIOMOLECULAR SCIENCE INSTITUTE Award Action Type: Increase AWARDING SPONSOR: National Institutes of Health TITLE: Aptamer-Based, Exonuclease-Amplified, Colorimetric, Onsite	AWARD: \$ 41,694
PI: Ping Zhu INTERNATIONAL HURRICANE CENTER Award Action Type: Increase AWARDING SPONSOR: University of Miami TITLE: CARTHE II - Consortium for Advanced Research on Transport	AWARD: \$ 69,338
PI: Ioannis Zisis INTERNATIONAL HURRICANE CENTER Award Action Type: Initial AWARDING SPONSOR: Florida Division of Emergency Management TITLE: FIU's Hurricane Loss Reduction for Housing in Florida	AWARD: \$ 132,941

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

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