

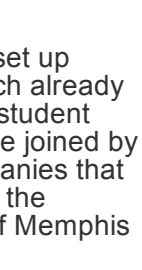


February 2019

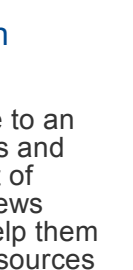
University of Memphis Launches Phase One of Research Park



RESEARCH



INNOVATION



Eighteen New Companies, One Blue Location

The University of Memphis Research Foundation launched the first phase of a multi-phase research park initiative on Jan. 17. Located at 460 S. Highland St. in a former branch of the Memphis Public Library, the new research park initiative brings together companies that are committed to hiring University of Memphis students, collaborating with faculty in cutting-edge research and further cementing Memphis as a destination for technology innovation.

Seven citizen companies have set up offices in the research park; each already having hired at least one UofM student employee. These companies are joined by 11 collaborator members, companies that are committed to the mission of the research park and the growth of Memphis as a technology destination.

For more information on this initiative, or to welcome a citizen or collaborator, contact cbahles@memphis.edu.

At the Intersection of Innovation: The Research Park's Niche in Memphis

Memphis is fortunate to be home to an amazing ecosystem of innovators and entrepreneurs, with a diverse set of incubators, including our own Crews Center for Entrepreneurship that help them succeed. After incubation, the resources for young companies to scale up in our city has been less robust, leading many companies to headquarter in other cities.

The research park solves this with a strategy that encourages growth through research-driven collaboration. With this initiative, the University of Memphis is pioneering a new set of resources to help companies in Memphis and across the globe succeed in our city.

Biometric Sensors: Insights into Human Behavior, Emotion and Cognition

Gain insights into human behavior with industry experts with hands-on demonstrations.

Feb. 6 | 12:30-2:30 PM
FIT Lobby

"Google Maps" For Education AI Learning

The Institute for Intelligent Systems (IIS) welcomes Dr. Prasad "Pram" Ram, who will present how learning navigation technology can complement classroom instruction and empower our students. Gooru has developed a Learning Navigator -- a "Google Maps" for learning. With the Learning Navigator, students locate their current knowledge and skills, set their learning destinations and are presented with a personalized pathway of learning activities.

A multi-phased, growth-based approach Distinguishing our research park from others

Research Parks are a common feature of the academic landscape. The majority of R1 research institutions are home to a research park or some unit which uses the economic theory of agglomeration to accelerate commercialization and innovation in the campus community.

This initiative is a three-phase approach that grows with our community. Phase 1, located in the former public library branch at Midland and Highland, is filling a gap in the technology landscape in Memphis while providing a landing pad for international companies that are ready to grow with our university.

Phase 2 will be on the Park Avenue campus, and will house the next development of UMRP Ventures, the award winning public-private partnership established with FedEx that employs over 200 UofM students. Phase 3 will begin after the completion of the first two and will feature the construction of a new building in the University district. This phase will continue the philosophy of engaging corporations and organizations to create opportunities for our students, research collaborations for our faculty, all while furthering technology commercialization, and the growth of Memphis as an innovation destination.

Materials Science UofM's Ali Fatemi honored for contributions to Research and Testing

Ring Companies Endowed Professor and Chair of Mechanical Engineering, Dr. Ali Fatemi, is in the news again. The German Association for Materials Research will honor Fatemi for his contributions to scientific cooperation between the US and Germany at its international conference in Darmstadt at the end of March. Fatemi is just the fourth U.S. scientist to be honored. Fatemi's robust program of research is sponsored by such corporate giants as General Motors, Pratt & Whitney, Electricite de France, Forging Industry Association, American Iron and Steel Institute, Army Research Lab and NAVAIR. Congratulations, Dr. Fatemi!

Once More at the River From MLK to BLM

The UC Auditorium was packed for the Tuesday, Jan. 22 premier of a new, one-hour documentary film that tells the story of activism in Memphis. Faculty members Roxane Coche, Joy Hayden and Aram Goudsouzian leveraged seed funding from the University's FY17 Strategic Research Investment Fund to secure a Humanities Tennessee Grant and support from the Benjamin Hooks Institute for Social Change to bring this story to life. The film is based on oral history interviews conducted by University of Memphis students who took a two-course sequence in History and Journalism. Original music composed and produced by UofM student Morgan Bell is also featured. For more information or to request a screening, visit the [website](#).

Cybersecurity Research Profile Spotlight

Professor of Computer Science Dipankar Dasgupta is known for his pioneering work on the design and development of intelligent cybersecurity solutions inspired by natural and biological processes. He is one of the founding fathers of the field of artificial immune systems and is at the forefront of research in applying computational intelligence approaches to cyber defense.

Dasgupta's groundbreaking works in digital immunity, negative authentication and cloud insurance modeling have been featured in Computer World Magazine and other news media. He holds a patent (#9,912,657) for his latest innovation of adaptive multi-factor authentication system and his book, "Immunological Computation," is widely used as a reference book. Dasgupta has also published more than 260 research papers in book chapters, journals, and international conference proceedings and Google Scholar shows more than 15,500 citations of his works.

In addition to Dasgupta's research and creative activities, he also spearheads the University of Memphis' education, training and outreach activities on Information Assurance. He is the founding Director of the Center for Information Assurance (CfIA), which is designated as a National Center for Academic Excellence in Information Assurance Education (CAE-IAE) and in Research (CAE-R) by the National Security Agency/Department of Homeland Security. For more information visit his [profile page](#).

LAB TOUR METAL ADDITIVE MANUFACTURING

Engineering Tech Building Room 120 3798 Norriswood Ave Memphis, TN 38111

FEB 12 | Noon-2 PM

SOFT ROBOTIC SYSTEMS AND THE FUTURE

Feb. 21 | Noon-1:30 PM
The Fishbowl (Room 203/205)

UofM's Annual Research Celebration

Feb 28 | FEC | 3:30-5:30 PM

Make plans to join the Division of Research and Innovation as we recognize a new class of PI Millionaires, first-time Principal Investigators, Book Authors/Editors, highlight special research accomplishments for FY18. The celebration will take place from 3:30-5:30 p.m. in the Fogelman Executive Center (FEC) main floor auditorium and lobby.

For more information, contact resdev@memphis.edu.

Research Park Citizens Collaborating with UofM and Lipscomb University Faculty

The energy of the University's first research park has already yielded exciting new collaborations between companies and researchers that will enhance DayMed as a technology hub.

DayMed, a Toronto-based pharmaceutical delivery and adherence platform, and Remedichain, a Memphis-based nonprofit pharmacy disrupting the pharmaceutical industry with blockchain, have filed an IRB for further research in collaboration with Dr. Hongmei Zhang of the University of Memphis School of Public Health and scholars at Lipscomb University in Nashville.

Their work will investigate medication adherence via logged doses through the DayMed digital health platform and patient self-reporting. It will also utilize the digital health platform, DayMed, to validate RMA (real time medication adherence) as a method of measuring patient adherence compared to MPR (Medication Possession Ratio) and study user satisfaction with the DayMed digital health platform.

This research represents the type of intersecting research-driven public-private partnerships the University's new research park make possible.

PATENT SPOTLIGHT



Tech Transfer: UofM receives first patent of 2019

UofM faculty, Dr. Bashir Morshed, a recipient of the prestigious Canadian Commonwealth Scholarship and current faculty member of the Department of Electrical and Computer Engineering at Herff College of Engineering, and Director of Embedded Systems Advanced Research and Prototyping (ESARP) lab, received notification he was issued the U.S. patent for his submission "Multilayer Additive Printed Circuit."

This new technology allows fabrication of multilayer thin-film electronic circuits with low-cost inkjet printing additive manufacturing process on flexible planar surfaces. Electronic circuits fabricated with this new technology can be used for body-worn patch sensors, wearables, prosthetics, implants, Internet of Things, drones, smart cities, environmental monitoring, and many other applications.

For more information on UofM technologies available for commercialization, visit the tech transfer [website](#) or contact Dr. Hai Trieu hhtrieu@memphis.edu.

RESEARCH PARK CITIZENS

RESEARCH PARK CITIZENS

CITIZEN PROFILES

BookLocal

A Memphis-based blockchain travel company enabling hotels to tokenize, manage and rent their room inventory with the security of blockchain technology.

DayaMed

A Toronto-based B2B2C digital health and analytics company that provides real-time medication adherence.

Green Mountain Technology

A Memphis-based technology company providing highly customized Parcel Spend Management solutions.

Minute School

A Waterloo-based learning management system solving continuing education opportunities in higher education and beyond.

Ops-Fuel

A veteran-owned, Memphis-based company helping soldiers, athletes and others achieve better brain health.

SweetBio

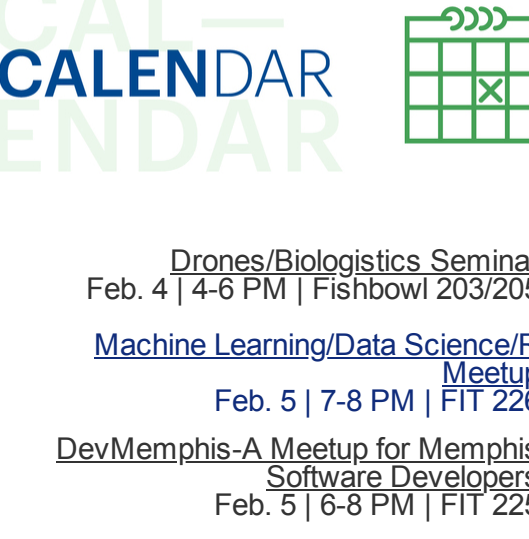
A Memphis-based biotech company disrupting the wound care industry with innovative Manuka honey-incorporated products (developed in partnership with the University of Memphis).

XYO Networks

A San Diego-based blockchain company building a people-powered location network built on blockchain.

RESEARCH PARK COLLABORATORS

COLLABORATORS



A collection of corporations and nonprofits who are redefining Memphis as a technology innovation destination. Learn about member benefits or register your company [at this link](#).

CALENDAR



- Drones/Biologistics Seminar
Feb. 4 | 4-6 PM | Fishbowl 203/205
- Machine Learning/Data Science/Research Meeting
Feb. 5 | 7-8 PM | FIT 226
- DevMemphis-A Meetup for Memphis Software Developers
Feb. 5 | 6-8 PM | FIT 225
- Biometric Sensors: Insights into Human Behavior, Emotion and Cognition
Feb. 6 | 12:30-2:30 PM | FIT Lobby
- Lab Tour: Metal Additive Manufacturing Laboratory
Feb. 12 | 12-2 PM | Engineering Technology Building 120
- Memphis Game Developers Meetup
Feb. 13 | 6-9 PM | FIT 225
- Memphis Python User Group
Feb. 18 | 6:30-8:30 PM | FIT 225
- Memphis Salesforce Meetup
Feb. 19 | 6-8 PM | FIT 225
- Soft Robotics Workshop
Feb. 21 | 12-2 PM | Fishbowl 203/205
- DAMA MidSouth Chapter Meetup
Feb. 21 | 4-6 PM | Fishbowl 203/205
- MEMPass/Power BI Meetup: 2019 Lightning Talks
Feb. 21 | 5:30-8:30 PM | FIT 227
- Give Camp
Feb. 22 - 24 | 8 AM - 5 PM | FIT 225, 313, 315
- Memphis PHP User Group
Feb. 26 | 6:30-8:00 PM | FIT 225
- NetSquared User Group
Feb. 28 | 5:30-6:30 PM | 227

TRAININGS



- Agile Academy: Systems Testing
Feb. 7-8 | 8 AM - 5 PM | FIT 225
- SAS Programming I: Essentials
Feb. 25-26 | 8 AM - 5 PM | FIT 313

New Awards: January

Dr. Randel Cox, professor in the Department of Earth Science, was awarded \$66,712 from the US Geological Services (USGS) for his project "Paleoseismic investigation of the Tennessee seismic zone."

Dr. Eddie Jacobs, professor in the Department of Electrical Computer Engineering and director of the DRONES Research Cluster, was awarded \$18,958 from the Northrop Grumman Corp for his project "PALS Simulation Support."

Dr. Stephanie Ivey, Herff College of Engineering associate dean and associate professor in the Department of Civil Engineering, was awarded \$29,043 from Shelby County Schools for her project "The STEM Ambassador Program: Mathematics Support for Kirby High School."

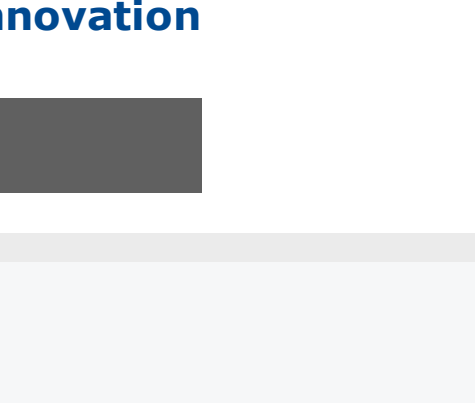
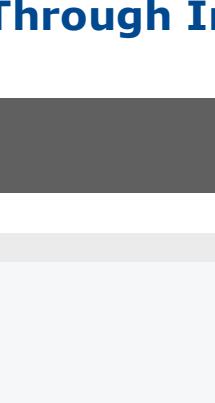
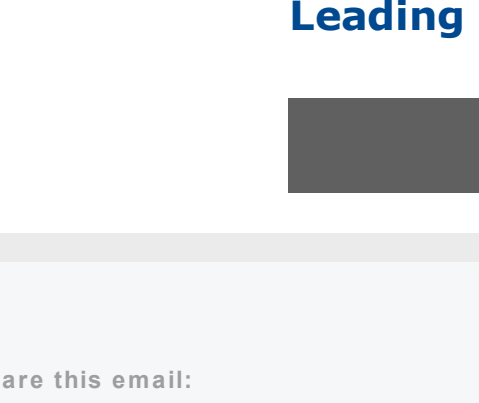
Marc Perrusquia, director of the Institute of Public Service Reporting, was awarded \$4,500 from the Fund for Investigative Journalism for his project "Prevalence of Assault Weapons in Memphis."

Tracy Robinson, director for the Center for Innovative Teaching & Learning, was awarded \$21,054.60 from Tennessee Higher Education Commission (THEC) for her project "Veteran Reconnect Round 4 Sustainability Program."

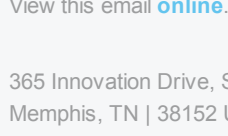
Dr. Satish Kedia, professor in the Division of Social and Behavioral Sciences, was awarded \$65,625 from the Office of National Drug Control Policy in collaboration with the University of Baltimore for his project "Community-Based Outreach and Integrated Medication-Assisted Treatment and Psychosocial Intervention for Opioid Disorder in Appalachian Counties in Tennessee."

* Data is reported on the 18th of each month. Any awards finalized after the 18th of each month will be reported in the following month's report.

* Awards to-date for FY19 total \$15,012,500.00



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