



October 2018

Leading Through Innovation

The Division of Research & Innovation is moving full steam ahead as we drive the University towards its next great achievement - Carnegie Research I status. In support of that effort, we bring faculty together through innovative opportunities like the Community of Research Scholars (CoRS) Program, professional development opportunities to help you achieve research success and hosting exciting events like the What's Next Series highlighting faculty research. We are also pleased to announce the new website for the division - memphis.edu/research. We've reformatted it to focus on the groups who drive innovation on campus - our researchers and our community and industry partners. Check us out, schedule an appointment with the division or stop by anytime. We are excited to take this journey with you!

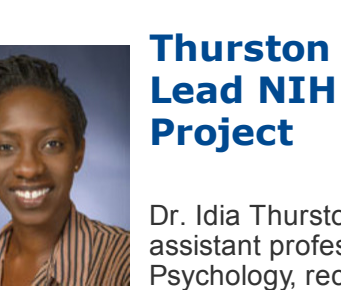
RESEARCH

NSF awards \$7M in STEM grants to collaborative teams of researchers that feature UofM faculty Ivey & Haddock

The National Science Foundation (NSF) has awarded \$7 million for two major Science, Technology, Engineering and Mathematics (STEM) grants to collaborative teams of researchers that include UofM faculty.

The "Urban S-STEM Collaboratory" is a \$5M project studying the impact on student success of scholarships, development of STEM identity and other support on low-income, academically talented engineering and mathematics majors. Dr. Stephanie Ivey, professor of Civil Engineering and associate dean for Research in the Herff College of Engineering, will lead the UofM team in partnership with the University of Colorado at Denver and Indiana University - Purdue University Indianapolis. Collaborators on campus include colleagues from the College of Engineering, the College of Arts and Sciences and the College of Communication and Fine Arts. The full press release is available [here](#).

"Promoting Success in Undergraduate Mathematics Through Graduate Teacher Training" is a \$2M project to implement and study a specialized training program for graduate students. Dr. John Haddock, professor of Mathematical Sciences, will lead the UofM team in partnership with scholars from University of Colorado Denver and Auburn University. Collaborators on campus include colleagues from the Department of Mathematical Sciences and the College of Education. For more news about this project, click [here](#).



Thurston to Lead NIH Project

Dr. Idia Thurston, assistant professor of Psychology, received her first external grant as principal investigator this month. The research is funded by the National Institutes of Health (NIH) National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), and will focus on addressing the needs of adolescents of size. Specifically, Dr. Thurston and Dr. Katie Howell (also in the UofM Psychology Department) along with their collaborators from UTHSC, LeBonheur Children's Hospital and NYU School of Medicine, seek to understand why some African American youth exhibit complications due to obesity (for example, diabetes, high blood pressure and high cholesterol) and other black youth do not. This stress and resilience-based study will provide important data for a future NIH R01 intervention grant. To learn more about Dr. Thurston's research program, visit her [website](#).

Clinical Psychology Doctoral Students Receive Grants

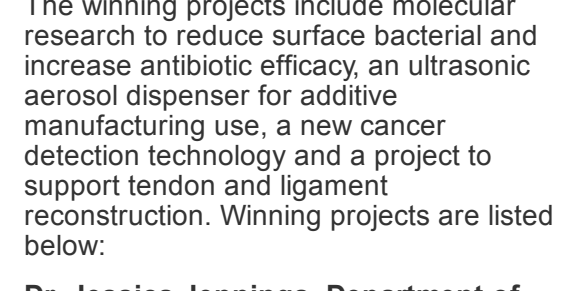
In the past six weeks, two students from the Clinical Psychology program have received significant grants equal to or greater than, \$30,000 through the National Institute of Health and one via the American Foundation for Suicide Prevention (AFSP). Those students are:

Kathryn Soltis, MS, Clinical Psychology doctoral student, NIH funded F31 (predoctoral fellowship) fellowship grant titled "A Mobile-Based Behavioral Economic Intervention to Reduce Young Adult Alcohol Misuse" in the amount of \$70,000. Mentors include UofM psychology faculty members James Murphy, Meghan McDewitt-Murphy and Idia Thurston.

Matthew Luciano, MS, Clinical Psychology doctoral student received a NIH funded F31 fellowship grant titled "Reducing Hazardous Drinking and PTSD-Related Avoidance Through a Brief Alcohol Intervention with an Avoidance-Focused Feedback Supplement" in the amount of \$70,000. Mentors include UofM psychology faculty members Meghan McDewitt-Murphy and James Murphy.

Jamison Bottomley, MS, Clinical Psychology doctoral student, received an American Foundation for Suicide Prevention (AFSP) funded grant titled "Surviving Suicide and Opioid-Related Loss: Examining Needs, Support and Grief Trajectories" in the amount of \$30,000. The mentor is UofM Psychology faculty member Robert Neimeyer.

Congratulations all!



UofM's FedEx Institute of Technology Invests in Four New Technologies

The FedEx Institute of Technology at the University of Memphis recently awarded \$80,000 in development grants to University researchers. The funds will be used to support the development of four new, commercially promising projects.

"Every research idea or invention has an innovative dimension that can impact our larger world. We see great possibilities in these four new technology inventions. This investment we are making today will help flesh out their patent potential and identify possible application areas," stated Dr. Jasbir Dhaliwal, executive vice president of Research & Innovation.

The winning projects include molecular research to reduce surface bacterial and increase antibiotic efficacy, an ultrasonic aerosol dispenser for additive manufacturing use, a new cancer detection technology and a project to reconstruct tendon and ligament reconstruction. Winning projects are listed below:

Dr. Jessica Jennings, Department of Biomedical Engineering, and Dr. Daniel Baker, Department of Chemistry. "Cyclepropyl Fatty Acid Signaling Molecule Analogs and Methods for Use in Controlling Microbial Biofilms"

Dr. Ranganathan Gopalakrishnan, Department of Mechanical Engineering. "Ultrasonic Dispersion of Cohesive Dry Powders"

Dr. Xiaohua Huang, Department of Chemistry, and Dr. Thang Hoang, Department of Physics and Materials Science. "Single Vesicle Technology for Early Cancer Detection"

Dr. Gary Bowlin, Department of Biomedical Engineering. "CRISPR-based Synthetic Gene Regulatory Networks for Tissue Engineering and Regenerative Medicine"

Kumar Team Awarded Three-Year, \$1.5M NSF Grant

Computer Science Professor Santosh Kumar and his collaborators at UCLA, Georgia Tech and Ohio State will spend the next three years creating mResearch - a platform for reproducible and extensible mobile sensor big data research. Their goal is to enhance the infrastructure developed through our MD2K Center of Excellence to provide a complete, open and modularized architecture that will enable high-frequency sensor data research to researchers around the globe. For more information, visit the MD2K [website](#).

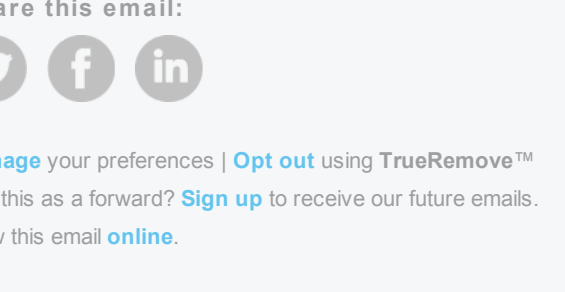
Communities of Research Scholars (CoRS) Call for Proposals

The UofM Division of Research & Innovation is pleased to launch a new **Communities of Research Scholars (CoRS) Program** designed to cultivate interdisciplinary discourse and nurture the growth of research affinity groups across campus.

We will award up to ten CoRS seed grants of \$2,500 each to support roundtable discussions and other activities leading to a focused plan to pursue and secure support for ongoing research, scholarship and/or creative activity and an organizational membership structure to enable ongoing community activities.

Proposals must be submitted via e-mail to Researchdev@memphis.edu by midnight, Oct 15.

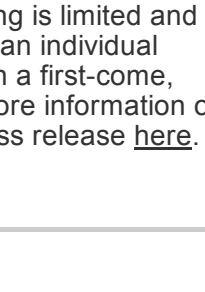
For further information, please contact Mary Earheart-Brown, senior associate director for Research Development, at maryearheart.brown@memphis.edu.



INNOVATION

Pioneer in Systems Medicine, Dr. Leroy Hood, to Speak at UofM

Oct 1 | 5:00 PM



Dr. Leroy Hood, a member of all three national academies and recipient of the National Medal of Science for his pioneering work in systems medicine, will deliver a keynote speech at the University of Memphis FedEx Institute of Technology on Oct 1.

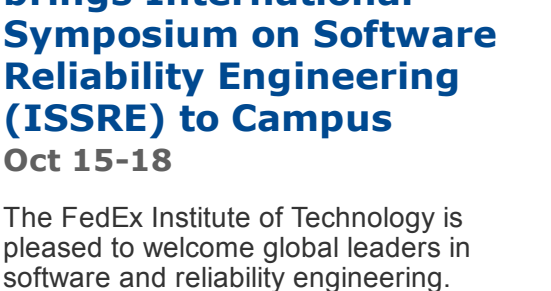
A strong advocate for P4 healthcare - healthcare that is predictive, preventive, personalized and participatory - Hood will be in Memphis to participate in the fifth annual meeting of the NIH-funded Center of Excellence for Mobile Sensor Data-to-Knowledge (MD2K). Dr. Hood's address is open to the public. Seating is limited and will be allocated through an individual required on-line [RSVP](#) on a first-come, first-served basis. For more information on Dr. Hood, review the press release [here](#).

Materials Day 2018

Oct 5 | 8 AM - 5 PM

The Institute for Nanomaterials Development and Innovation at the University of Memphis (INDIUM) invites you to Materials Day 2018 Friday, Oct 5, 2018. The event is organized with an aim to bring materials scientists and students on campus and from across the Memphis area to exchange ideas in the field of nanomaterials and nanotechnology. The event will host a series of talks and poster session on the implication of nanomaterials in the field of biomaterials and nanotechnology.

This event is to spread awareness about nanotechnology on campus and across Memphis in general. This day-long event will host lectures, exhibition and student posters. Participating faculty are requested to encourage their students to showcase their work in the poster session. Registration is free (breakfast, lunch and afternoon snacks included) for all, but seats are limited to 80 only, so [register](#) today.



New York School of Law, W4B, FedEx Institute of Technology Bring a Female Focus in Blockchain to NYC

Oct 5-8

The FedEx Institute of Technology is helping to bring blockchain to the masses. In partnership with Women4Blockchain and Cryptochicks, the first all-women blockchain hackathon in the U.S. will take place at the New York School of Law in NYC. For more information or to register for this event, visit their [site](#).

University of Memphis brings International Symposium on Software Reliability Engineering (ISSRE) to Campus

Oct 15-18

The FedEx Institute of Technology is pleased to welcome global leaders in software and reliability engineering. Industry professionals from international development leaders like Microsoft, Nokia and Google will be on hand alongside scholars from globally recognized academic institutions for the highest caliber technology conference to be hosted in this city to date. Review the papers [here](#) and [register](#) today.

Faculty Workshop Series

Oct 19 | 12:45-1:45 PM

The Division of Research & Innovation is working hard to build resources that help our faculty find success in their research, in the lab and in the classroom. Review upcoming sessions for the 2018-2019 [Faculty Workshop Series](#). RSVP [here](#).

Next session: Dr. Jasbir Dhaliwal gives Introduction to the Division of Research & Innovation

What's Next: Dr. Sabya Mishra and the Practical Transition to Autonomous Vehicles

Oct 24 | 5:30 PM



The future of autonomous vehicles is only a minute away. Join us as Dr. Sabya Mishra, assistant professor of Civil Engineering and co-director of the Smart Cities Research Cluster, explores where autonomous vehicles are today and how we will get to a safer, more efficient and more accessible future of transportation. Dr. Mishra's work focuses on how autonomous vehicles will be integrated into existing systems over time.

Refreshments will be provided. RSVP [here](#).

CALENDAR

[Pioneer in Systems Medicine, Dr. Leroy Hood, to Speak at UofM](#)
Oct 1 | 5 PM | The Zone

[SAS Programming I: Essentials](#)
Oct 2-4 | 8 AM-5PM | VCCC (313)

[Machine Learning/Data Science/R Meetup](#)
Oct 2 | 6-7:30 PM | FIT 225

[DevMemphis Meetup](#)
Oct 2 | 6-7:30 PM | FIT 226

[SQL Saturday](#)
Oct 4-6 | 8 AM-5 PM | FIT 225 & Fishbowl 203/205

[Materials Day: Institute of Nanomaterials Development and Innovation at the UofM](#)
Oct 5 | 8 AM-5 PM | Lobby & MPT (103)

[Cyber Security Summit](#)
Oct 5 | 8 AM-5 PM | The Zone & Fishbowl 203/205

[DevSecOps](#)
Oct 8-9 | 8 AM-5 PM | Fishbowl 203/205

[Memphis WebWorkers Meetup](#)
Oct 9 | 6-8 PM | FIT 225

[Memphis Game Developers Meetup](#)
Oct 10 | 6-9 PM | FIT 225

[M10 \(Mem Tech Entrepreneurs\)](#)
Oct 10 | 5:30-7:30 PM | Fishbowl 203/205

[MEMPass/Power BI Meetup](#)
Oct 11 | 5:30-8:30 PM | Fishbowl 203/205

[MemTech Meetup: Python](#)
Oct 15 | 6:30-8:30 PM | FIT 225

[SQLUGS Meetup](#)
Oct 15 | 7-8 AM | Holiday Inn Medallion Restaurant - University of Memphis

[STEP Workshop](#)
Oct 15 | 8 AM-5 PM | The Zone, MPT, Fishbowl & FIT 225

[ISSRE](#)
Oct 15-18 | 8 AM - 2 PM | The Zone, MPT, Lobby, Fishbowl, FIT 225

[Faculty Workshop Series: Introduction to Division of Research & Innovation](#)
Oct 19 | 12:45-1:45 PM | FIT 225

[SAS Applied Analytics](#)
Oct 22-24 | 8 AM - 5 PM | FIT 225

[MEMTech Meetup: PHP](#)
Oct 23 | 6:30 - 8 PM | FIT 225

[What's Next: Sabya Mishra](#)
Oct 24 | 5:30 - 7:00 PM | FIT 225

[SAS: Text Analytics](#)
Oct 25-26 | 8 AM - 5 PM | FIT 225

[SAS: Intro to Applied Econometrics](#)
Oct 31-Nov 2 | 8 AM - 5 PM | FIT 225

TRAINING

[SAS Programming I: Essentials](#)
Oct 2-4

[SQLSaturday](#)
Oct 4-6

[STEP Workshop](#)
Oct 15

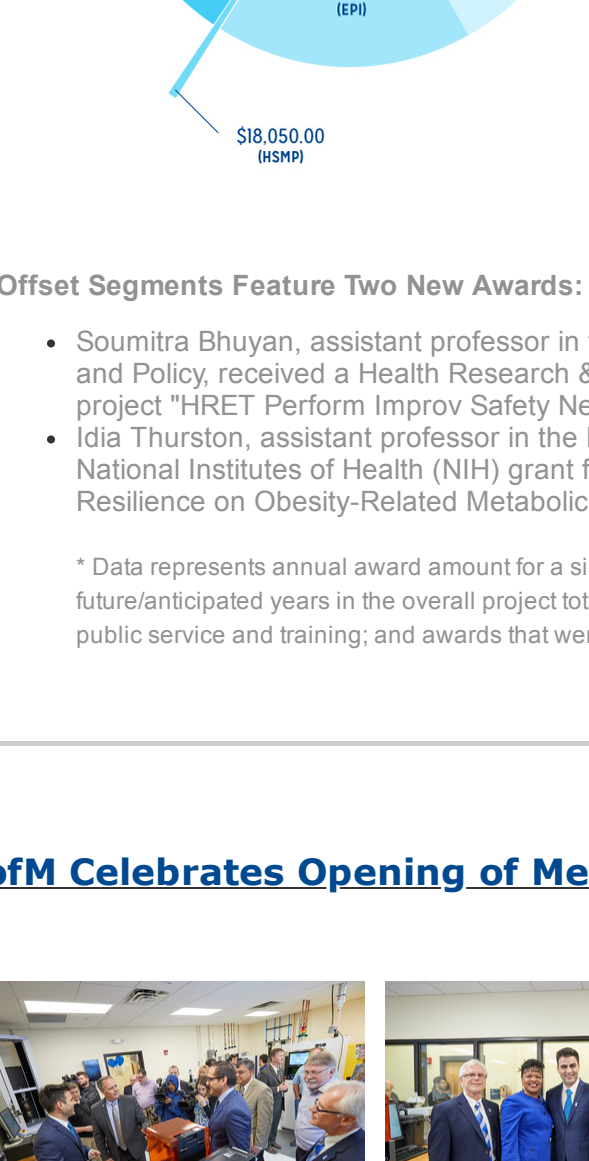
[SAS Applied Analytics](#)
Oct 22-24

[SAS: TEXT Analytics](#)
Oct 25-26

[SAS: Intro to Applied Econometrics](#)
Oct 31-Nov 2

MONTHLY RESEARCH AWARDS

September 2018 | \$3,744,165



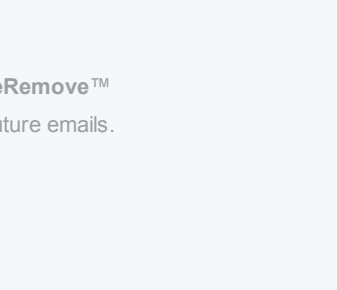
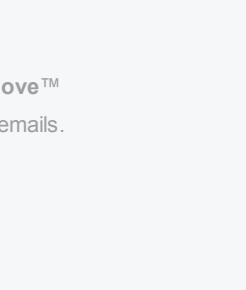
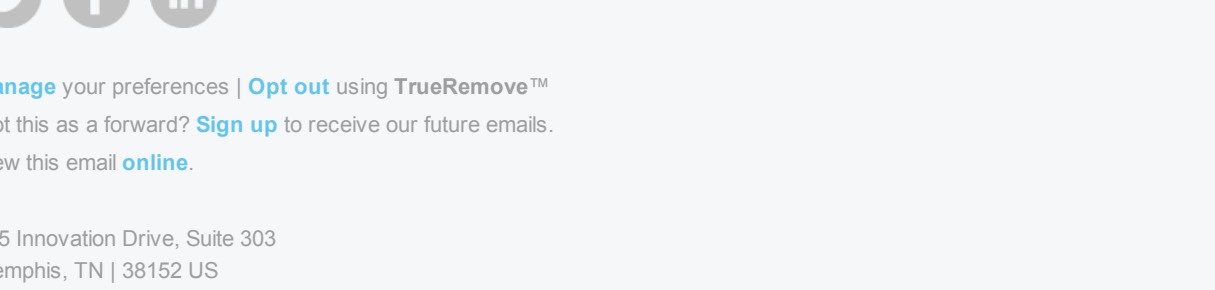
- Biology (BIO)
- CAESER
- CERI
- Chemistry (CHEM)
- Civil Engineering (CE)
- Computer Science (CS)
- Epidemiology (EPI)
- Health Systems Mgmt and Policy (HSMP)
- ICL
- Institute For Intelligent Sys (IIS)
- Mechanical Engineering (ME)
- Psychology (PSYC)
- School of Public Health (SPH)
- Social and Behavioral Sciences (SBS)
- University College (UC)

Offset Segments Feature Two New Awards:

- Soumitra Bhuyan, assistant professor in the Division of Health Systems, Management and Policy, received a Health Research & Educational Trust (HRET) grant for his project "HRET Perform Improv Safety Net Hospitals."
- Idia Thurston, Assistant Professor in the Department of Psychology, received a National Institutes of Health (NIH) grant for her project, "The Impact of Stress and Resilience on Obesity-Related Metabolic Complications in Adolescents."

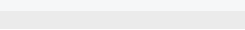
* Data represents annual award amount for a single budget period (there may be past and future/anticipated years in the overall project total); all awards from external sponsors for research, public service and training; and awards that were compliant and fully executed.

UofM Celebrates Opening of Metal Additive Manufacturing Lab



Division of Research and Innovation
Leading Through Innovation

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