



## THE WEEKLY

### Drone Prototyping Short Course



## Drone Prototyping Short Course



Do you like problem solving, learning new technology, and making things? Join our Drone Prototyping Workshop series! You will be working in small teams to design, prototype and pitch a solution to a real-world challenge given by industry partners.

We are looking for enthusiastic participants from every major at Mason. Spots are limited- apply today!

**8 week course**  
**Thursdays Starting September 15**  
**4:30-6:30pm**  
**Horizon Hall 1408**  
**Applications close September 12th**  
**Sign up at [mix.gmu.edu/drone](https://mix.gmu.edu/drone)**

## STUDENT OPPORTUNITIES

### AES Energy Innovation Challenge

**COMPETE TO DEVELOP PROPOSED SOLUTIONS FOR MAJOR ENERGY CHALLENGES.**

**AND FOR RECOGNITION AND PRIZES (\$10,000 FIRST PRIZE) AND INCLUDING OPPORTUNITIES FOR PAID AES ENERGY INNOVATION CHALLENGE INTERNSHIPS**

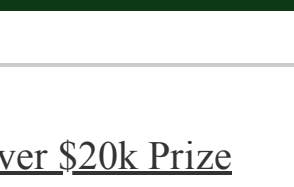


**ALL PARTICIPANTS WILL RECEIVE STUDENT ENERGY INDUSTRY ASSOCIATION MEMBERSHIPS AND OPPORTUNITIES TO NETWORK WITH AES PROFESSIONALS**

# AES ENERGY INNOVATION CHALLENGE

**LEARN ABOUT THE EXCITING AES ENERGY INNOVATION CHALLENGE (FOR GRADUATE STUDENT TEAMS FROM ACROSS THE U.S.)**

**NETWORK WITH GEORGE MASON GRADUATE STUDENTS AND CREATE YOUR TEAM.**

Networking hosted by CESP  
SEPT 8 & 9 2022 @ 330 pm Via Zoom  
Deadline to Register a Team: SEPT 23, 2022  
Scan the QR for the Zoom Link:



### Mason Students Can Enter Hackathon with over \$20k Prize

George Mason University's [Terrorism, Transnational Crime and Corruption Center \(TraCCC\)](#) and Amazon have joined forces to help combat counterfeiting and its criminal supply chain networks! We're co-hosting the 2022 Bring Down Counterfeiting Public Policy Hackathon, a first-of-its-kind event, administered by [Blue Clarity](#). It will challenge teams to develop innovative ideas to combat this global challenge.

Registration closes October 7. An in-person final judging is on November 5, when teams will compete for more than \$20,000 in prizes. Go to [expeditionhacks.com/counterfeiting](https://expeditionhacks.com/counterfeiting) for details and to register.

### The Sprinternship™ Application for 2023 Is Now Open!

Sprinternships™ are paid 3-week micro-internships for first-, second-, or third-year undergraduate students pursuing computing degrees. Sprinternships™ give students a resume credential that makes them more competitive when applying for summer internships and provides employers a chance to engage with a diverse tech talent pipeline. Working in teams of five, 'Sprinterns®' are immersed in their host site's business and culture, complete a challenge project, and build their industry network and knowledge.

Applications close at **5:00 p.m. on Friday, September 30**. If you have any questions, email [breakthroughtech@cs.gmu.edu](mailto:breakthroughtech@cs.gmu.edu).

You can apply [here](#).

## VARIOUS OPPORTUNITIES

### Be an AIM-AHEAD Research Fellowship Mentor

The AIM-AHEAD Research Fellows Program will engage early-career researchers from underrepresented populations to actively participate in biomedical research that involves the use of AI/ML methodologies on Electronic Health Record Data. Selected mentors will receive a stipend of up to \$10,000.

Apply [here](#).

### CIA DDI Digital Hammer Call for White Papers

CIA DDI is seeking white papers outlining potential solutions for managing legal holds. These legal holds require data and records to be preserved and streamlined in order to improve the records management process. White papers may be selected for formal request for proposal, and possibly for a prototype development. The software solution would perform electronic discovery, processing, logging, inventory, audit, ingestion, document review, data recovery, and production tasks accurately and in a timely manner.

The SOO for the BAA is available [here](#). A new version of the Digital Hammer BAA's Concept of Operations (CONOPS) will be released shortly with updated information. The current CONOPS is available [here](#).

Questions? Contact Mike Bunting at [mbunting@gmu.edu](mailto:mbunting@gmu.edu).

Deadlines:

**Questions** are due **September 15 by 5 p.m. ES** (via the "Q&A" tab under "BAA Call 003")

**White papers** are due **October 14 by 5 p.m. EST** (via the "BAA Call 003 Resps" tab under "BAA Call 003").

### DARPA-SN-22-54 OpTIm Technical Area 1 Proposers Day

The Defense Advanced Research Projects Agency (DARPA) Defense Sciences Office (DSO) is sponsoring a Proposers Day webcast to provide information to potential proposers on the objectives of an anticipated Broad Agency Announcement (BAA) for the Optomechanical Thermal Imaging (OpTIm) Technical Area (TA) 1 program. The Proposers Day will be held via webcast on September 9 from 10 a.m. to 5 p.m. Advance registration is required for viewing the webcast. Note, all times listed in this announcement and on the registration website are Eastern Time.

The OpTIm TA1 program seeks to demonstrate a new class of room-temperature, integrated optomechanical infrared (IR) detectors and thermal sensors in the mid-wave IR (MWIR) and long-wave IR (LWIR) regimes with performance metrics that bridge the gap between room temperature microbolometers and cryogenic, quantum-limited IR photodetectors.

Additional information regarding this special notice can be found [here](#).

Questions regarding this Special Notice should be emailed to [OpTIm@darpa.mil](mailto:OpTIm@darpa.mil).

## FUNDING OPPORTUNITIES

[Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences \(CDS&E-MSS\)](#)

**Deadline:** Continuous Submission

[Long Range Broad Agency Announcement \(BAA\) for Navy and Marine Corps Science and Technology](#)

**Deadline:** September 30, 2022

[CISE Research Initiation Initiative \(CRII\)](#)

**Full Proposal Deadline:** September 19, 2022

[SF Dynamic Language Infrastructure - NEH Documenting Endangered Languages \(DL-DEL\)](#)

**Senior Research and Conference Proposals Deadline:** October 14, 2022

[Graduate Research Fellowship Program \(GRFP\)](#)

**Full Proposal Deadline for Computer and Information Science and Engineering and Other Areas of Research:** October 18, 2022

[Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science \(NSF INCLUDES\)](#)

**Full Proposal Deadline:** October 25, 2022

## AWARDS

**Congratulations to:**

**Campbell, Patrick C.**, from the [College of Science](#) for receiving the National Oceanic & Atmospheric Administration (NOAA) grant on *Beyond the "Big-Leaf" Model at NOAA: Use of Novel Satellite Data and In-Canopy Processes to Improve U.S. Air Quality Predictions*.

**Dirmeyer, Paul A.**, from the [College of Science](#) for receiving the National Oceanic & Atmospheric Administration (NOAA) grant on *Integrated Surface Physics for Coupled Hydrometeorology in the UFS for S2S Prediction*.

**Gordon, Samuel D.**, from the [College of Engineering and Computing](#) for receiving the Galois Inc grant on *GMU ACT Year 2*.

**Kan, Cing-Dao** from the [College of Science](#) and co-PIs **Marzougui, Dhafer** and **Reichert, Rudolf** for receiving the National Highway Traffic Safety Administration (NHTSA) grant for THOR-05F Task 6-7 RQ186261; GMU 12244D.

**Marasco, Emanuela** from the [College of Engineering and Computing](#) for receiving the Virginia Innovation Partnership Authority grant on *Protecting Smartphones from Fingerphoto Spoofing via Deep Fusion of Color Spaces*.

**Shah, Vijay K.** from the [College of Engineering and Computing](#) for receiving U.S. Department of Commerce NIST grant on *5G-Enabled Indoor Positioning System for Firefighters using UAV's (5G-IPS)*.

## IDIA AFFILIATION

Did you know that, as an IDIA faculty affiliate, you are eligible to:

Compete for [internally funded IDIA projects](#)

Serve as [IDIA Advisory Council members](#)

Receive support for [IDIA relevant events](#)

Get featured in our next weekly: [IDIA Weekly Spotlight](#)

Become part of the [dynamic multidisciplinary faculty network](#) focused on digital techniques and technologies to advance fields as diverse as finance, education, built infrastructure, science, economics, agriculture, health, transportation, entertainment, national security, and social justice.

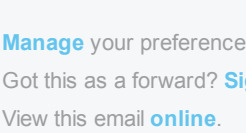
There is no financial burden to you or your departments for affiliation with the institute. Participation in IDIA does not prevent its members from being associated with other university centers. If you are not already affiliated, we encourage you to submit your profile [here](#).

## SHARE WITH US

We are eager to hear from you! As we work with your colleges to compile updates on digital innovation-related research activities at Mason, we would love to hear about your research activities, awards, and recent publications. Please share any successes, concerns, or ideas with us at [idiaz@gmu.edu](mailto:idiaz@gmu.edu)



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