



## THE WEEKLY

Dear IDIA Colleagues,

The Graduate Education Office, the Office of Student Scholarship, Creative Activities, and Research ([OSCAR](#)), and the Institute for Digital Innovation ([IDIA](#)) are collaborating to offer Digital Innovation Summer Fellowships for Applied Research.

The fellowship provides financial support, DoD research exposure, experience communicating data needs with various stakeholders, and opportunities to meet with external partners to develop use cases. This opportunity connects students to applied research and DoD research areas in digital technologies.

We seek undergraduate and graduate students keen on applying their technical skills to improve a building, a campus, a city, or a county. If you are ready to take on a challenge, apply through [Handshake](#) by **February 21**.

Search for: Digital Innovation Summer Fellowship on [Handshake](#) or

Click one of the links below:

[Graduate Research Fellow](#)

[Undergraduate Research Fellow](#)



## UPCOMING EVENTS

### Two Hacks in One: A Double Hackathon at Mason

Mark your calendar for Mason's TechConnect Hacks, featuring two coinciding hackathons: [PatriotHacks](#) and [HackOverflow](#). Register [here](#).

**About the event**

If you think a hackathon is fun, imagine how much learning and collaboration would be in a double hackathon? On March 11th-13th, the in-person TechConnect Hacks event at George Mason University will feature the fourth annual PatriotHacks hackathon and the first HackOverflow hackathon.

A hackathon is a 40-hour event where students work in a sprint-like environment to solve real-world problems. The coinciding PatriotHacks and HackOverflow hackathons, which focus on software and hardware, respectively, will bring more than 250 students from colleges and universities across the country. The "hacks" and ideas students can create are endless.

Examples of past projects include: creating virtual reality classrooms, a machine learning algorithm to classify news articles, creating sustainable earth solutions, and even an augmented reality DJ mixer.

**Register Here!**

[LinkedIn](#) [Facebook](#) [Instagram](#) [Twitter](#)

presented by Institute for Digital Innovation

### Center for Retail Transformation Panel on Autonomous Stores



**Feb 17, 2022, from 12:00pm - 1:00pm ET**

Part of the **transforming retail series**

MASON UNIVERSITY School of Business Center for Retail Transformation

Sponsored by:

Moderated by: Gautham Vadakapatt, Center Director

### Funding for Virginia Startups and Growing Companies

**FAIRFAX COUNTY ECONOMIC DEVELOPMENT AUTHORITY**

**nvtc** NORTHERN VIRGINIA TECHNOLOGY COUNCIL

**FUNDING FOR VIRGINIA STARTUPS AND GROWING COMPANIES**

Presented by Fairfax County Economic Development Authority in partnership with NVTC Digital Transformation Community

**FEBRUARY 23, 2022**  
**6:00-7:00 PM**

Learn about funding and grants for your start-up and growing at this virtual event

Featuring speakers from:

VIPC VIRGINIA INNOVATION PARTNERSHIP CORPORATION NSF National Science Foundation VEDP Virginia Economic Development Partnership FAIRFAX COUNTY ECONOMIC DEVELOPMENT AUTHORITY

**TO REGISTER:**  
<https://fundingforvirginiastartupsandgrowingcompanies.eventbrite.com>

### Advanced Computing for Social Change Institute

The Advanced Computing for Social Change Institute offers unique opportunities for undergraduate students who want to enhance their skill set and create positive change in their community.

The 2022 ACSC East Coast in-person event will take place May 16-20, 2022 (Located in Washington, DC).

**Application Deadline:** February 21, 2022. Notification of acceptance to be sent in March 2022.

Apply [here](#).

### Writing Workshop for Teaching and Mentoring Statements

The 2nd Spring 2022 Faculty Affairs-Research Development Services Interactive Workshop entitled **Writing Workshop for Teaching and Mentoring Statements** will be held **Thursday, February 24** from **1:30-3:00 pm**.

The workshop will help you think through how to convey the impact and effectiveness of your teaching and mentoring for renewal, tenure, and/or promotion. The workshop is appropriate for faculty in any discipline. You will outline your teaching, learning, and mentoring strategies for developing and presenting them to peer and reviewer audiences. This interactive workshop will be facilitated by faculty members who have navigated the promotion process at Mason.

Registration is required, please [sign up here](#).



### Smart City Challenge

**Smart City Challenge**  
**April 6 - June 2, 2022**

Innovation Competition for Smart City Solutions

[REGISTER NOW](#)

## VARIOUS OPPORTUNITIES

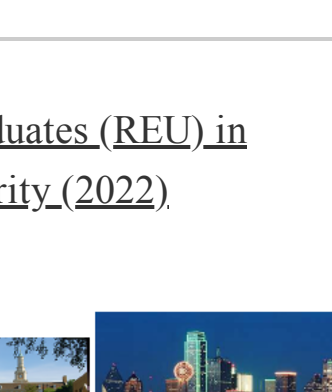
### Container Design Challenge Info Session

Calling all innovators, creators, and change-makers—the **Spring 2022 Container Design Challenge** is here!

Brought to you by CIE Mason and part of The Depot Program, we challenge you to create and explore returnable, reusable, and sustainable food containers for producers, transporters, retailers, and customers. Make a positive impact on sustainability at a local level and beyond!

Find out more at our info session next **Tuesday, February 15, 2022, at 12pm on Zoom**. We'll share the details on **PRIZES**, rules, challenge tracks, and upcoming brainstorming and workshop opportunities. After the quick overview of the challenge and how to find teammates, we'll jump right into the fun and have a mini-workshop on "design thinking" from [Mason adjunct Andres Jordan](#).

Save the date and Zoom link to your [calendar here](#). For more information and to pre-register, **complete this fast and easy form**.



### MetroLab's 2nd Annual Student Cup

**METROLAB**

**2ND ANNUAL STUDENT CUP**

METROLAB NETWORK 2022 SUMMIT

APPLICATIONS ARE DUE BY 11:59 P.M. (EST) ON MARCH 1, 2022

[metrolabnetwork.org/student-cup-2/](http://metrolabnetwork.org/student-cup-2/)

### NSF Research Experiences for Undergraduates (REU) in

### Vehicular Edge Computing and Security (2022)

**UNT** EST. 1950 **COMPUTER SCIENCE & ENGINEERING** UNIVERSITY OF NORTH TEXAS

UNT is located in the Dallas-Fort Worth Metroplex

Summer Research Experience for Undergraduate Students in **Vehicular Edge Computing and Security**

**NSF-REU**

University of North Texas' National Science Foundation funded Research Experience for Undergraduates

**NOW ACCEPTING APPLICATIONS**

Join a dynamic research team to participate in designing and experimenting autonomous vehicles, edge computing, and secure connected systems. Develop analytical and research skills.

**RESEARCH AREAS IN VEHICULAR EDGE COMPUTING & SECURITY**

- 2D & 3D sensor data fusion for object detection
- Vehicular edge computing
- Trustworthy inter-vehicle information sharing
- Deep learning for autonomous vehicles

**QUICK FACTS**

- Program dates: May 23 - July 29, 2022
- \$6,000 stipend
- Free housing
- Round-trip travel support
- Research projects with CSE faculty mentors

**APPLY NOW!**

Visit: [www.cse.unt.edu/~song/REU/Apply](http://www.cse.unt.edu/~song/REU/Apply)

More info: [www.cse.unt.edu/~song/REU/](mailto:www.cse.unt.edu/~song/REU/)

Contact: [song.fu@unt.edu](mailto:song.fu@unt.edu), 940-565-2341 [qing.song@unt.edu](mailto:qing.song@unt.edu), 940-565-4399

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING | [computerscience.engineering.unt.edu](http://computerscience.engineering.unt.edu)**

### REU Site: TaMaLe - Testing and Machine Learning for Context-

### Driven Systems: Research Experience for Undergraduates

**REU Application**

REU Site: TaMaLe - Testing and Machine Learning for Context-Driven Systems: Research Experience for Undergraduates

The **REU Site: TaMaLe (Testing and Machine Learning for Context-Driven Systems)** is currently accepting applications for **Summer 2022**. We seek to provide undergraduate research students with opportunities to motivated students. No previous research experience is required. Students will work on exciting projects that focus on research problems to improve the reliability and security of context-driven systems such as mobile and web applications.

#### Participant Eligibility Requirements:

- Must be enrolled in an undergraduate program in Computer Science, or a related field.
- Must be an undergraduate in good standing
- Must be a US citizen or US permanent resident
- Must complete the on-line application including the brief essay questions.
- Must submit transcripts.
- Must ensure two references have submitted their letters of recommendation.

#### Accepted students will receive:

- The opportunity to work on exciting research.
- \$6,000 stipend (total) for 10 weeks.
- The opportunity to be part of program that has a strong emphasis on collaboration with other students
- Pending: If the program is held in person, you will receive housing in UNT dorms. (We anticipate holding it on campus pending UNT approval due to COVID-19 protocols. Your safety is our top priority.)

Apply [here](#).

Thank you for your interest!  
Dr. Renee Bryce and Dr. Cihan Tunc  
Directors of the **TaMaLe** Research Experience for Undergraduates Site  
Computer Science & Engineering  
University of North Texas

### Call for Proposals for Industry-Faculty

### Collaboration Acceleration Program (IFCAP)

The Commonwealth Cyber Initiative (CCI) is establishing Virginia as a global center of excellence at the intersection of cyber, autonomous systems, and intelligence. With a mission of research, innovation, and workforce development, CCI serves as a catalyst for the Commonwealth's economic development and long-term leadership in the cybersecurity sector.

Under the Industry-Faculty Collaboration Acceleration Program (IFCAP), CCI NoVa Node faculty may apply for and receive up to \$80k of funding to support their contributions to R&D efforts identified, curated, and developed with and/or by one or more industry/government partner(s).

**Total Amount of Funding for this Program:** \$400,000

**Maximum Award Amount:** \$80,000 per proposal

**Email Notice of Intent to Submit:** February 14, 2022

**Proposals Due:** March 21, 2022

Learn more [here](#).

### Call for Proposals for CCI Fellows Program 2022

Virginia's Commonwealth Cyber Initiative (CCI) is creating a Commonwealth-wide ecosystem of innovation excellence at the intersection of cybersecurity, autonomous systems, and intelligence. CCI's mission includes research, innovation, and workforce development.

More than 300 researchers across Virginia are affiliated with CCI, providing the breadth and depth of expertise needed to compete for large research awards. Increasing Virginia's success in attracting center-scale awards is one of the objectives of CCI.

This call aims at funding center-scale research proposal efforts requiring major coordination and proposal-writing work.

This call will fund CCI researchers to lead center-scale proposals. Principal investigators (PIs) funded under this call will be designated CCI Fellows.

**Proposals Accepted -** January 1, 2022 - Dec 31, 2022

Apply [here](#).

## FUNDING OPPORTUNITIES

[Department of Energy - Seeding Critical Advances for Leading Energy Technologies with Untapped Potential 2021 \(SCALEUP 2021\)](#)

Concept Paper Deadline - April 6, 2022

[National Science Foundation - Materials Research Science and Engineering Centers \(MRSEC\)](#)

Preliminary Proposal Deadline - June 20, 2022

[National Science Foundation - CISE Community Research Infrastructure](#)

Full Proposal Deadline - June 23, 2022

[Concept Operation - Innovation Fund -- Research Grants](#)

Continuous Submission

## AWARDS

#### Congratulations to:

**Luo, Chao** from the [College of Science](#) for receiving the National Science Foundation grant on *CAREER: Organic Structure and Interphase Engineering for Fast-Charging, High-Temperature, and Sustainable Batteries*.

## 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](#)

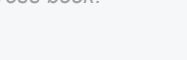
Get Featured in our next Weekly: [IDIA Weekly Spotlight](#)

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 [idia2@gmu.edu](mailto:idia2@gmu.edu)



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