



THE WEEKLY

2024 Mason ORIEI NSF Career Cohort

The Office of Research Innovation and Economic Impact (ORIEI) is launching the 2024 Mason ORIEI NSF CAREER Cohort Support Program. NSF CAREER awards are among the most prestigious awards in support of early career faculty issued from the NSF. We are excited about launching this new program, intended to support our early career faculty applying for 2024 NSF CAREER Awards, through workshops, mentorship and a structured grant writing process. The NSF CAREER program page and solicitation can be found [here](#).

The attached flyer provides information about the support program, which will kick off the week of February 12th with an Orientation. The program will also include provide:

1. Specialized workshops from NSF CAREER proposal development consultants
2. Identification of a faculty mentor for each participant
3. Panel discussion with Mason CAREER awardees
4. Review and feedback from external experts

This structured program will provide faculty with step-by-step support and expert feedback as they develop their proposals. Faculty planning to submit an NSF CAREER proposal in the 2024 Cycle are strongly encouraged to apply to participate in this program. Applications for the program are due February 5th. The link to the brief application form is in the attached flyer and can be found here: [2024 NSF CAREER SUPPORT PROGRAM](#).

Questions about this program should be directed to: Leslie Frieden, Associate Director for Research Development, lfrieden@gmu.edu or Rebekah Hersch, Associate Vice President, Research and Innovation Initiatives, rhersch@gmu.edu



2024 Mason ORIEI NSF CAREER Cohort

Goal: Provide intensive training, resources and mentorship to enable early career faculty to achieve NSF CAREER awards.

Eligibility: Assistant Professors with fewer than 3 prior NSF Faculty Career Award (CAREER) submissions who meet CAREER [Eligibility](#).

Program Duration: February to June (4 months)

Time Commitment: 4-6 hours of formal activities per month, plus focused writing time and meeting with mentor

Schedule: Exact Dates and Times To be Determined and Subject to Change

| Week Of | Activity |
|----------------------|---|
| February 12 | Orientation and Kickoff (2 hours) |
| February 19 | Work on project description, set up meeting with mentors |
| February 25 | ARIS NSF CAREER Awards 101 and Broader Impacts Webinar |
| March 1 | Deadline 1: One Page Project Description for NSF Program Officer |
| March 11 | Contact Program Officers, and mentors work on project description |
| Wednesday, March 20 | NSF CAREER Awards Part 1 (2 hours) |
| Wednesday, March 27 | NSF CAREER Award Part 2 (2 hours) |
| April 1 | DEADLINE 2: Draft Intellectual Merit |
| April 8 | CAREER Awardee Panel Discussion |
| April 15 | Work on Broader Impacts, meet with mentors |
| April 22 | Cohort Meeting and Break out Sessions with Research Institutes |
| April 29 | Meet with mentors and work on draft |
| May 3, May 10 | Finish draft |
| May 15 | Deadline 3: Draft Project Description (15 pages) |
| May 16-June 3 | External Peer Review, Cohort Meetings, Feed-back from Mentors |
| June 10 | External Comments Provided to Awardees |
| July 18, 2024 | Mason Internal NSF CAREER Award Deadline |

Apply By February 5: [NSF CAREER Cohort](#)

Questions: Contact lfrieden@gmu.edu

1/22/24

UPCOMING EVENTS

[Drone Prototyping Short Course](#)



MASON INNOVATION EXCHANGE

Drone Prototyping Short Course Spring 2024



Do you want to learn how to build and fly a drone?

Do you like problem solving, learning new technology, and making things? **Apply now for the MIX's Drone Prototyping series for Spring 2024!**

You will work in small teams to design, prototype, and build a drone! Enthusiastic participants from all majors, departments, and schools are encouraged to apply.

Limited to 30 spots - Apply Today!

9 week course - Thursdays Starting Feb. 15
4:30-6:30pm - Horizon Hall 1408

Hurry! Application Deadline is Feb. 8

Go here to here or scan: mix.gmu.edu/drone

Questions? MIX@gmu.edu

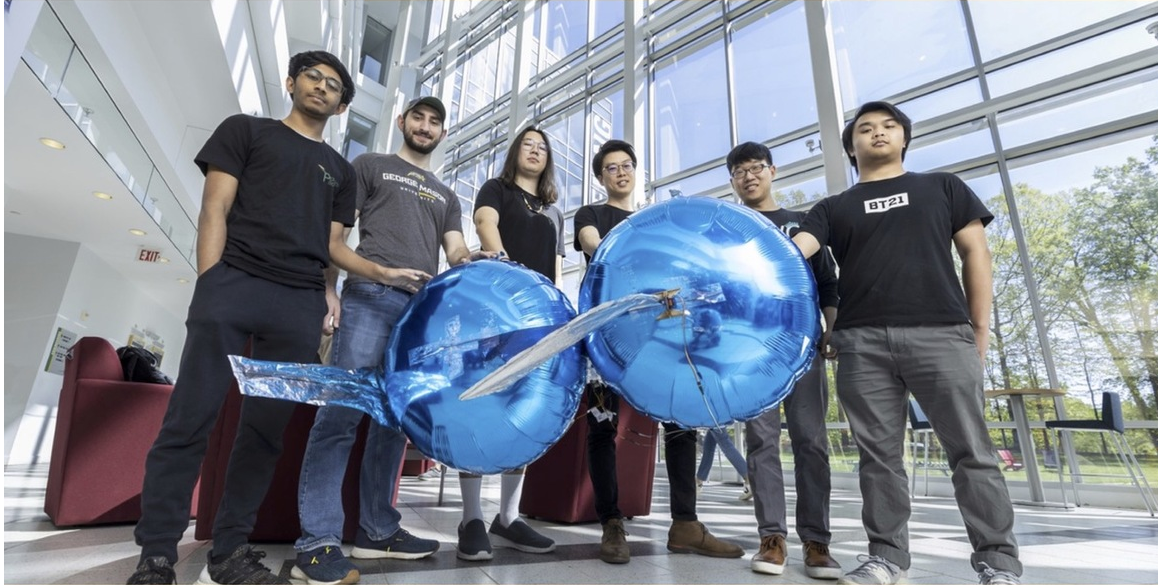


[BLIMP Prototyping Short Course](#)



MASON INNOVATION EXCHANGE

BLIMP Prototyping Short Course Spring 2024



Do you want to learn how to build and fly Lighter-than-air UAV or Blimp?

Enjoy an intro to the world of robotics and autonomy through a hands-on experience building a bio-inspired flapping-wing blimp. In a team of 3, students will design and build their own flapping wing blimp from scratch.

Enthusiastic participants from all majors are encouraged to apply.

Limited to only 18 spots - apply today!

7-week course - Wednesdays Starting Feb. 7

4:30-6:30pm - Horizon Hall 2108

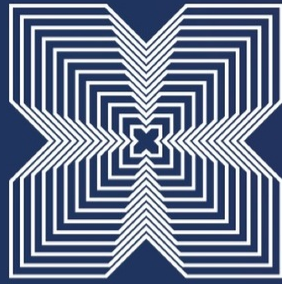
Hurry! Application Deadline is JAN 31!

www.mix.gmu.edu/blimp

Questions? MIX@gmu.edu



[2024 AI Expo for National Competitiveness](#)



ai
expo 24
for national
competitiveness

may 7 & 8, 2024
in washington, dc
walter e. washington convention center

hey students!

are you interested in:

- learning about emerging technologies?
- meeting tech leaders?
- identifying paths for collaboration?

Join the Special Competitive Studies Project for two exciting days of demos and dialogues with leading experts and technology enthusiasts, all with a shared vision to solidify the United States' position, alongside our allies and partners, as the leader in critical, emerging technologies.

attendance is free
register today!

scsp.ai/expo

Tech Duels: Artificial Intelligence vs Augmented Intelligence

GMU is bringing the next Tech Duels debate, Securing Tomorrow: Artificial Intelligence vs Augmented Intelligence. Tech Duels centers around pivotal technology topics that ignite interest and fuel debate. This series aims to develop critical thinking, encourage vital discussions about technology, and cultivate communities through networking.

Event date: **February 7, 2024** from **6:00 PM - 9:00 PM EST**

Discount code for GMU students and faculty for 50% off: **TDPARTNER**



GET READY FOR THE NEXT TECH DUELS EVENT THIS FEBRUARY

AI vs Augmented Intelligence

ARTIFICIAL INTELLIGENCE

DEBATERS

AUGMENTED INTELLIGENCE



Maureen "Marty" Fromuth
Chief of Staff, Legislative Liaison at U.S. Cyber Command



Noelle Russel
Top AI Voice | Expert in Data & AI Solutions | Award-Winning Technologist | Microsoft MVP in AI

VS



Kathleen Walch
Innovating industries and the public sector with cutting-edge technologies and best practices.



Jacqueline Tame
Security Pro | Tech Advocate | Policy Innovator | Founder, GAMECHANGER.AI

JUDGES



Kammy Sanghera
Exec. Director Institute for Digital InnovAtion (IDIA) at George Mason



Winston Chang
Creative | Technologist | Strategist | Leading Organizations to a Better Future



David Gagliano
VP Digital, BAH. Customer-Focused Business and Technology Leader



Dan Woolley
Entrepreneur in Residence

REGISTER NOW AT
WWW.TECHDUELS.COM

FEBRUARY 07, 2024 | 5:30PM-8:30PM
AT GEORGE MASON UNIVERSITY

COACH

MODERATOR



Aubrey Semple
Veteran Speech and Debate Educator



Alexa Tsui
GovCom Influencer/Community Builder

SPONSORED BY:



VARIOUS OPPORTUNITIES

Intelligence Community Postdoctoral Research Fellowship Program

Recruitment

The IC Postdoc program offers scientists and engineers from a variety of disciplines unique opportunities to conduct research in a range of topics relevant to the Intelligence Community. In collaboration with research advisors, postdocs develop and submit technical research proposals that align with research opportunities proposed by the Intelligence Community. The research is conducted by the postdocs in partnership with the research advisor while also collaborating with an advisor from the Intelligence Community.

Application deadline: **February 28, 2024**

More information available [here](#).

SCIFE Graduate Year-Long Fellowship Program

The SCIFE AI in Civil Engineering fellowship program provides a year-long opportunity for graduate students to develop advanced Artificial Intelligence and Cyberinfrastructure for applications in Civil Engineering and collaborate with experts at The University of Texas at Austin and Texas Advanced Computing Center.

Application deadline: **February 6, 2024**

More information available [here](#).

SCIFE Undergraduate Summer Scholarship

The SCIFE AI in Civil Engineering Scholarship Program provides a summer-long opportunity for undergraduate students to develop advanced Artificial Intelligence and Cyberinfrastructure for applications in Civil Engineering and collaborate with experts at The University of Texas at Austin and Texas Advanced Computing Center.

Application deadline: **February 6, 2024**

More information available [here](#).

Frontera Computational Science Fellowship Program

The Frontera fellowship program provides a year-long opportunity for talented graduate students to compute on the most powerful academic supercomputer in the world and collaborate with experts at the Texas Advanced Computing Center.

Application deadline: **February 6, 2024**

2024 Sustainability Summer Fellowships

Co-sponsored by the Mason's Graduate Division and the Institute for a Sustainable Earth, the 2024 Sustainability Summer Fellowships for Graduate Research Partnerships program provides financial support and professional development to graduate students who will work with partner organizations on applied research projects. This opportunity is designed to connect students with organizations making a positive impact on our world. Together, fellows and partner organizations will identify research and action priorities for the period of the fellowship, allowing students to gain valuable experience and organizational access. Participants in the Sustainability Summer Fellowship program will then be able to leverage this research partnership in their dissertation or master's thesis work.

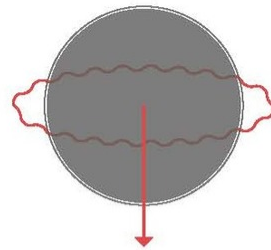
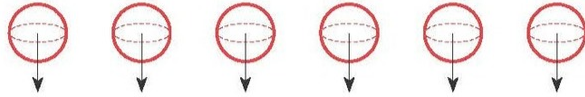
Application deadline: **February 11, 2024**

Learn more [here](#).



MathQuantum Research Training Group Internship

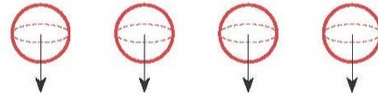
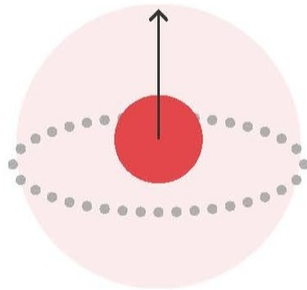
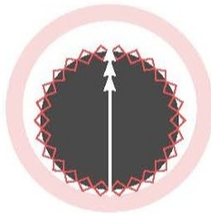
Math undergrads curious about
Quantum Information Science,



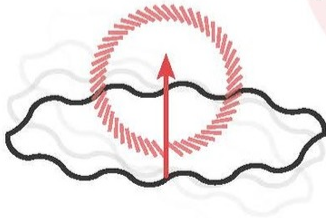
join the

Math Quantum

paid Summer* research fellowship
at UMD College Park



**No previous experience
in quantum needed!**



* Fall and Spring opportunities also available for DMV area students who can commute to UMD College Park

The Mathematics of Quantum Information Science RTG
mathquantum.umd.edu • mathquantum@umd.edu



Award DMS-2231533

CCI OPPORTUNITIES

CCI Scholars – Undergraduate Research Assistant Program

The propagation of distorted or inaccurate information erodes trust in public institutions and scientific knowledge and negatively impacts a wide range of societal aspects. Recent foreign-driven disinformation campaigns and the rise of generative Artificial Intelligence highlight the need to identify and proactively mitigate election misinformation, disinformation, and malinformation (MDM). Though MDM detection is well-explored in Natural Language Processing, it has distinct limitations. To address these limitations, applicants will develop a novel framework for MDM detection that shifts the focus of fact-checking from individual posts to aggregate representations of alleged events and uses a retrieval-based approach relying on a set of automatically selected sources. Using this framework, applicants will perform a large-scale retrospective study of election MDM and develop a public web app.

Learn more [here](#).

C5I Cyber Center of Excellence

Mason CEC's C5I Center is seeking talented undergraduate students who will contribute to various cybersecurity projects that directly support a significant center DoD sponsor. The hybrid work environment includes scheduled time onsite under the supervision of leading-edge cyber professionals. Track One – Cybersecurity Principles Track Two – Data Platforms and Data Analytics Interested students will be selected for either track based on knowledge and experience.

Learn more [here](#).

2024 CATAPULT Program

In 2024, CCI will run a third cohort of teams supported by its Cyber Acceleration, Translation, and Advanced Prototyping for University Linked Technology (CATAPULT) Fund to advance translational research projects among faculty and partners. This fund is an important tool in CCI's innovation toolbox, providing funding critical to advance the maturity of cyber discoveries during the critical "Valley of Death" phase of commercialization defined by the National Science Foundation. During this phase, innovators are preparing for Small Business Innovation Research (SBIR) or Commonwealth Commercialization Fund (CCF) grants to assist in product development and market testing, but they are not quite prepared for outside investment.

Application deadline: **February 16, 2024**

Learn more [here](#).

AWARDS

Congratulations to:

Luo, Lannan from the [College of Engineering and Computing](#) for receiving the Virginia Innovation Partnership Authority grant on *Unsupervised Binary Code Translation for Low-Resource Architectures with Applications to Vulnerability*.

Zeng, Qiang from the [College of Engineering and Computing](#) for receiving the Virginia Innovation Partnership Authority grant on *Towards Lifetime Supply Chain Security for Internet of Things: Testing an Update Before Trusting It*.

Shah, Vijay K. from the [College of Engineering and Computing](#) for receiving the Virginia Innovation Partnership Authority grant on *Fingerprinting Technology for Enhancing 5G/NextG O-RAN Supply Chain Risk Management*.

Arafin, Md Tanvir from the [College of Engineering and Computing](#) for receiving the Virginia Innovation Partnership Authority grant on *Securing Chiplet-based Semiconductor Manufacturing from Untrusted Supply*

FUNDING OPPORTUNITIES

[National Institutes of Health - Development of Innovative Informatics Methods and Algorithms for Cancer Research and Management \(R21 Clinical Trial Optional\)](#)

Deadline: **June 11, 2024**

[European Commission - SNS JU -- International Collaboration](#)

Deadline: **April 18, 2024**

[National Science Foundation - Ideas Lab: Personalized Engineering Learning \(PEL\)](#)

Deadline: **May 8, 2024**

[National Science Foundation - The Distributed Research Experiences for Undergraduates \(DREU\) program](#)

Deadline: **February 15, 2024**

IDIA AFFILIATION

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

Compete for [internally funded IDIA projects](#)

Receive support for [IDIA-relevant events](#)

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



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