

Announcements

Upcoming Seminars: WATER at Mason

WATER (Watershed and Aquatic Teams for Education and Research) at Mason, an [ISE 2021 Mason 17 Rooms-U Seed Funding Award](#) recipient, is hosting two upcoming seminars as a part of its 2022 Summer Seminar Series, which will be held both hybrid and in-person:

June 10, 2022 (Friday) 3:00- 4:30 PM – Dr. Christine Gilbert, Assistant Professor, Virginia Tech

- **REGISTRATION**

June 17, 2022 (Friday) 3:00- 4:30 PM – Dr. Daniel Grosse, oyster grower at [Toby Island Bay Oyster Farm](#) and President of [TerrAqua Environmental Science and Policy, LLC](#)

For registration and more information to come, please check the WATER (Watershed and Aquatic Teams for Education and Research) at Mason webpage [here](#) for future updates and announcements.

2022-2023 CRASC Graduate Research Fellows

Wednesday, June 8, 2022

Application

The following Transdisciplinary Graduate Fellowship Program is supported by Mason's [Center for Resilient and Sustainable Communities \(C-RASC\)](#) and the [Office of Graduate Education](#) to: 1) provide a full Graduate Research Assistantship package for up to two Mason graduate students who would not otherwise have one available; and 2) to support new or ongoing transdisciplinary research projects on community resilience and/or sustainability that align with C-RASC's research portfolio and could lead to future extramural research funding.

This merit-based program is designed to provide up to two graduate students' tuition (up to 9 credits) and health care subsidies (subject to health care applicability requirements) through Mason's Office of Graduate Education. It is expected that the fellows' GRA stipends will be partially or fully covered by the PI (lead mentor) via funds from their school/unit, department,

extramural funding, or other funds. The Fellow must support new or ongoing research activities (e.g., data collection, data analysis, writing, etc.) related to community resilience and/or sustainability with the potential to lead to future research funding.

Fairfax County seeks public comment on 1st Climate Adaptation and Resilience Plan

All Fairfax County residents are invited to comment on the county's first-ever climate adaptation and resilience plan, now through June 15. The plan includes information on expected climate impacts in the county in the decades to come, an audit of existing county policies, plans, and programs, a comprehensive vulnerability and risk assessment, and recommended strategies to address known and expected risks. Climate change is already impacting Fairfax County with more frequent severe storms, higher temperatures, and increased flooding. **Review the county's plan and share your thoughts, here: <https://bit.ly/3NjJVRK>**

ONR Announcement 2023 YOUNG INVESTIGATOR PROGRAM

The Office of Naval Research (ONR) is interested in receiving proposals for its Young Investigator Program (YIP). ONR's Young Investigator Program seeks to identify and support academic scientists and engineers who are in their first or second full-time tenure-track or tenure-track-equivalent academic appointment, who have received their PhD or equivalent degree on or after 01 January 2015, and who show exceptional promise for doing creative research. The objectives of this program are to attract outstanding faculty members of U.S. Institutions of Higher Education (hereafter also called "universities") to the Department of the Navy's Science and Technology (S&T) research program, to support their research, and to encourage their teaching and research careers. Individuals who are holding U.S. non-profit equivalent positions are also encouraged to apply.

Proposals addressing research areas (as described in the ONR Science and Technology Department section of ONR's website at www.onr.navy.mil) which are of interest to ONR Program Officers will be considered. Contact information for each division (a subgroup of an S&T Department) is also listed within the S&T section of the website.

Application Inquiries and Questions
24 June 2022 (Friday) at 12:00 PM Eastern Time

Applications must be received no later than
01 July 2022 (Friday) at 11:59 PM Eastern Time.



ONR Announcement N00014-22-S-F007

**FUNDING OPPORTUNITY ANNOUNCEMENT (FOA) FISCAL YEAR
(FY) 2023 YOUNG INVESTIGATOR PROGRAM**

Deadlines

Application Inquiries and Questions

24 June 2022 (Friday) at 12:00 PM Eastern Time

Applications must be received no later than

01 July 2022 (Friday) at 11:59 PM Eastern Time

AMENDMENT 0002: This amendment updates the evaluation criteria regarding Naval S&T relevance. See highlighted text on page 23.

25Live Guide – Feature Your Sustainability Events

The [Office of University Events](#), the [Institute for a Sustainable Earth](#), and the [Office of Sustainability](#) collaborated to develop this [25Live Guide](#) to increase the visibility of and engagement with your sustainability-focused events at Mason. 25Live is Mason's institution-wide event and academic scheduling system which dovetails with unit calendars such as [Today@Mason](#). Please use this [25Live Guide](#) to ensure your sustainability-focused events, whether they are in-person or virtual, are featured on Today @ Mason and through ISE and the Office of Sustainability.

ISE Faculty Profiles

The [ISE faculty directory](#) is a tool for you to find others with complementing expertise and for external and internal audiences to find you! If you haven't yet submitted your research profile information for the directory, **please complete your profile [here](#)**.

Upcoming Mason Events

LIVE WEBINAR: “Understanding the war in Ukraine” with Karina V. Korostelina

Tuesday, June 7, 2022, 2:00 pm ET on Zoom

[Registration](#)

[Karina V. Korostelina](#), a Professor and Director of Peace Lab on Reconciling Conflicts and Intergroup Divisions and of the Program on History, Memory, and Conflict at the [Carter School for Peace and Conflict Resolution](#) will be holding a webinar on understanding the war in Ukraine. To join the conversation, please register [here](#).

Webinar: Community-Owned Baseline Water Data: Science and Human Rights for Community Power Building

Wednesday, June 8, 2022, 11 am ET

[Registration](#)

The [Center for Social Science Research \(CSSR\)](#) is hosting a [webinar](#) focusing on the study of the right to water in communities within Haiti’s three gold exploitation permits.

Panelists will discuss the lessons they have learned from the dialogue between scientific and local indigenous knowledge produced during their collaboration, and how these forms of knowledge may shape and become shaped by human rights principles and law. Additionally, the panel address the Importance of community participation and leadership in every phase of the study, and the challenges of negotiating when local knowledge versus scientific knowledge (or human rights principles) should prevail; how to translate data into advocacy for community rights, particularly in the context of an absent State; and how generalizable their project might be for contexts outside Haiti.

The Place-Based Circular Economy: The Story of North Friesland Webinar

Thursday, June 16, 2022, 12 pm - 1:30 pm ET

[Registration](#)

The presence of globally-oriented high-tech businesses, educated and skilled workforces, research institutions and commitments to sustainable development between North Friesland and Northern Virginia suggest the potential to engage in mutually beneficial learning of lessons about the circular economy.

Please join the [Northern Virginia Regional Commission](#), [Leaders in Energy](#), [George Mason University School of Business](#), [Fairfax County Economic Development](#), and [Fairfax County Department of Procurement and Material Management](#) for a webinar about North Friesland ’s experiences with the circular economy and ways that it might inform equivalent efforts in Northern Virginia.

Other Upcoming Events

LIVE WEBINAR: House on Fire: Climate Risk and Resilience for Mortgages

Wednesday, June 8, 2022, 10:00 am ET on Zoom

Registration

S&P Global is hosting a webinar focusing on pressing considerations across the mortgage market, including:

- Acute vs. chronic risks and their impact on mortgages
- The latest trends in climate risk analysis and how key initiatives such as the TCFD have influenced them
- Analyzing physical risk on mortgage portfolios to identify vulnerabilities and opportunities
- How financial impact can be quantified and leveraged to support stress-testing

Attendance is free, but please pre-register here.

In the News

- Can the Structure of State Audit Agencies Deter Corruption?, School of Business News, June 2, 2022.
- Business students research link between well-being and productivity, School of Business News, May 25, 2022.
- Mason biotech startup Virongy continues to expand in Northern Virginia, The George News, May 23, 2022.

Funding Opportunities

NEW: FY22 Scale-Up of Integrated Biorefineries and Greenhouse Gas Reduction in First Generation Ethanol Production (Scale-Up+) Department of Energy

DOE's Bioenergy Technologies Office (BETO) develops technologies that convert domestic biomass and waste resources into biofuels, bioproducts, and power to enable affordable energy, economic growth, and innovation in renewable energy and chemicals production. This FOA supports high-impact technology RD&D to accelerate the bioeconomy and, in particular, the production of low-carbon biofuels for the aviation, marine, rail, and long-haul trucking industries.

BETO is focusing on applied RD&D to improve the performance and reduce cost of biofuel production technologies and scale-up production systems in partnership with industry. By reducing cost and technical risk, BETO can help pave the way for industry to deploy commercial-scale integrated biorefineries and reduce greenhouse gas emissions from hard-to-decarbonize sectors, such as the aviation industry.

Interested parties are directed to visit the Energy Efficiency and Renewable Energy's eXCHANGE system [here](#) for the full Funding Opportunity Announcement DE-FOA-0002638. An informational webinar will be held on June 15th, 2022 at 3:00 PM ET. Please note, there are no particular advantages or disadvantages to the application evaluation process with respect to participating in the webinar. Your participation is completely voluntary. Use [this](#) link to access the webinar, registration will not be required.

- **Important Informational Webinar:** June 15, 2022 at 3 PM ET
- **Required Concept Paper Due Date:** July 8, 2022 at 5 PM ET
- **Full Application Due Date:** September 9, 2022 at 5 PM ET

NEW: Joint DMS/NIGMS Initiative to Support Research at the Interface of the Biological and Mathematical Sciences National Science Foundation

The Division of Mathematical Sciences (DMS) in the Directorate for Mathematical and Physical Sciences (MPS) at the National Science Foundation (NSF) and the National Institute of General Medical Sciences (NIGMS) at the National Institutes of Health (NIH) plan to support fundamental research in mathematics and statistics necessary to answer questions in the biological and biomedical sciences. Both agencies recognize the need to promote research at the interface between mathematical and life sciences. This program is designed to encourage new collaborations, as well as to support innovative activities by existing teams. [The joint DMS/NIGMS initiative](#) offers two submission tracks: Track 1 - for projects with a total budget of up to \$600,000 for an award duration of 3 years, and Track 2 - for projects with a total budget of up to \$1,200,000 for an award duration of 3-4 years.

Closing Date for Applications: Sep 19, 2022

- **Estimated Total Program Funding:** \$5,000,000
- **Award Ceiling:** \$1,200,000

NSF-Disaster Resilience Research Grants

With this joint solicitation, [the NSF and the U.S. Department of Commerce \(DOC\) National Institute for Standards and Technology \(NIST\)](#) call for [proposals](#) for research to advance fundamental understanding of disaster resilience in support of improved, science-based planning, policy, decisions, design, codes, and standards.

- **Important Informational Webcast:** June 2, 2022 at 2 PM EDT
- **Letter of Intent Due Date:** June 20, 2022
- **Current Closing Date for Applications:** August 19, 2022

- **Award Ceiling:** \$400,000
 - **Estimated Total Program Funding:** \$3,100,000
 - **Expected Number of Awards:** 12
-

Dear Colleague Letter: Design for Sustainability in Computing

This recently issued Dear Colleague Letter ([NSF 2022-60](#)) **Design for Sustainability in Computing** encourages the submission of novel and high impact proposals that advance sustainability in all aspects of computing to the [CISE Core programs](#) (NSF 21-616). The DCL invites transformative, cross-disciplinary and potentially clean slate approaches to enable sustainability across all levels of the entire computing stack from hardware to networking to software applications. Proposals should consider diverse notions of sustainability and propose suitable metrics for quantifying impact. Traditional energy efficiency and power savings methods alone are not in scope for this DCL. Computing techniques for sustainability in other fields are not in scope for this DCL. This DCL seeks ambitious and forward-thinking proposals on Design for Sustainability in Computing along multiple dimensions that go beyond energy efficiency.

This DCL neither constitutes a new competition nor a new program. Rather, interested proposers should prepare and submit proposals in accordance with the instructions in the CISE Core program solicitation ([NSF 21-616](#)) and the [NSF Proposal & Award Policies & Procedures Guide](#) (PAPPG). Additionally, to call attention to responsiveness to this DCL, the Project Summary should include "SustainabilityDCL" in the keyword list. **Proposals submitted to this DCL will count towards the proposal limits imposed in the CISE Core program solicitation.**

ORAU-Directed Research and Development (ODRD) Program Call for Proposals

[Directed Research and Development \(ODRD\) program](#) is a research and development program that supports collaborations between Oak Ridge Associated Universities researchers and faculty at member universities. George Mason University is a member of [Oak Ridge Associated Universities \(ORAU\)](#) and this funding opportunity is only open to the ORAU members. Led by ORAU subject matter experts and leveraging the talents and expertise of member universities, ODRD projects strengthen and expand the scientific and technical capabilities of both parties.

The FY23 research areas are *Climate and Environment, Health Equity, and Future of the STEM Workforce*. Proposals are due in June 2022, and must be submitted by ORAU staff. Awards are made in August. Projects run October 1 – September 30.

Partnerships for Innovation

The [Partnerships for Innovation \(PFI\) Program](#) within the Division of Industrial Innovation and Partnerships (IIP) offers researchers from all disciplines of science and engineering funded by

NSF the opportunity to perform translational research and technology development, catalyze partnerships and accelerate the transition of discoveries from the laboratory to the marketplace for societal benefit.

- **Funding source:** National Science Foundation
- **Anticipated funding amount:** Up to \$550,000
- **Deadline:** July 13, 2022

NSF Critical Aspects of Sustainability (CAS): Innovative Solutions to Climate Change

This [Dear Colleague Letter \(DCL\)](#) encourages the science and engineering communities to develop forward-thinking research that will demonstrably aid in the Nation's goal of reaching net-zero greenhouse gas emissions and developing approaches for adapting to the change that is already occurring. CAS: Innovative Solutions to Climate Change is a call to action that encourages the submission of certain types of proposals to appropriate existing NSF core programs to lay the foundation for disciplinary and interdisciplinary research and to answer fundamental questions related to novel approaches and solutions to climate change.

- **Funding source:** National Science Foundation
- **Anticipated funding amount:** Up to \$100,000

Student Opportunities

Spring Resiliency Academy

The Spring 2022 Resilience Academy is a free opportunity for students to learn about resiliency efforts at the local, state, and federal levels. Students can register as a "Special Guest" with the codes below for no cost. Attendees have the option of registering for all sessions at once or they can select individual sessions from the series.

Event Details:

June 9th - Session 4: Infrastructure & Buildings: Transportation Progress Report

Register for Session 4

Students can use code: **RA2022SGS4** to get free registration for Session 4 - Infrastructure & Buildings: Transportation Progress Report

Cost: \$25/session; **Students and Resilient Virginia Members are free**



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MARCH 10
**Economic Activities:
Innovative Financing**

MAY 12
**Ecosystem Services:
Green Infrastructure Utilized**

APRIL 7
**Community Action:
Tools for Resiliency Planning**

JUNE 9
**Infrastructure & Buildings:
Transportation Progress Report**

The Institute for a Sustainable Earth (ISE) aims to connect members of the Mason community with others across the Mason community—and with other communities, policy-makers, businesses and organizations—so that, together, we can more effectively address the world’s pressing sustainability and resilience challenges.

The ISE Newsletter provides up-to-date information on conferences, funding opportunities, and research pertaining to environmental science and sustainability. The biweekly newsletter aims to facilitate information sharing among researchers, practitioners, and relevant local, national, and international organization.



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