



Institute for a
Sustainable Earth



ISE NEWSLETTER

April 25, 2022

Announcements

17 Rooms-U Seed Funding Awards Announced!

On behalf of Mason's [Institute for a Sustainable Earth \(ISE\)](#) and the [Business for a Better World Center \(B4BW\)](#), congratulations to the recipients of the [17 Rooms-U Seed Funding Awards](#)! The 17 Rooms-U [seed funding](#) supports the formulation and implementation of sustainability-oriented projects catalyzing action towards the U.N. Sustainable Development Goals (SDGs). In total, nine teams have been awarded up to \$5,000 each to launch their projects and make progress toward the SDGs during the next 12-18 months. Please see the awardees and projects [here](#).

Mason's [17 Rooms-U initiative](#) was launched in October 2021 with a summit that brought together faculty, staff, students, alumni, community members, and external partners. The summit and post-summit conversations led to the development of sustainability-oriented projects that are now being put into action through the seed funding awards. Congratulations to the awardees and 17 Rooms-U participants!

SUSTAINABLE DEVELOPMENT GOALS



CESP Student Fellow Application

The Center for Energy Science and Policy is now taking student fellow applications for the Fall 2022 semester. Interested students should complete and submit an application along with your resume/CV and a relevant writing sample to Amb. Richard Kauzlarich at rkauzlar@gmu.edu.

Earth Month at Mason!



PATRIOTS FOR PLANET PRESERVATION

All Mason Patriots can make an impact! Check out sustainability tips and featured events to learn more!

green.gmu.edu/earthmonth

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



NCAAC



U.S. ASSOCIATION for ENERGY ECONOMICS

NATIONAL CAPITAL AREA CHAPTER

2022 ANNUAL ENERGY POLICY CONFERENCE: ENERGY TODAY AND TOMORROW

Wednesday, April 27, 8am - 6pm ET

[Registration](#)

Please join the [25th Annual Energy Policy Conference: Energy Today and Tomorrow](#) of the National Capital Area Chapter, U.S. Association for Energy Economics. The event will be co-hosted by [George Mason University](#) and the [Center for Energy Science and Policy](#). The venue is set to be at George Mason University, Arlington Campus, Van Metre Hall 3351 Fairfax Dr, Arlington, VA 22201. To attend, please register in advance [here](#).

ACE! Symposium: Charting a Course Toward Social Justice in Corrections

Friday, April 29 and May 6, 1pm - pm ET

[Registration](#)

Join the [Center for Advancing Correctional Excellence](#) (ACE!) on April 29 and May 6 at 1PM EDT for a symposium on “Charting a Course Toward Social Justice in Corrections.” Drs. Faye Taxman and Danielle Rudes of ACE! will host the symposium and confirmed speakers include George Mason University President Dr. Gregory Washington, Glenn Tapia of the Colorado Judicial Branch and the Alliance for Criminal Justice Innovation, Dr. Erin Orrick from Sam Houston State University, and many other guests from academia, corrections leadership, research, and social media, as well as people with lived experience.

- Register [here](#) for Day 1.
- Register [here](#) for Day 2.

Join Drs. Faye Taxman and Danielle Rudes for

Charting a Course Toward Social Justice in Corrections ACE! Symposium

Day 1 registration: <https://bit.ly/3sZvj1C>

Day 2 registration: <https://bit.ly/3BLISFB>



1-5 PM EDT on April 29 and
May 6



From Great Ideas to Global Impact: A Talk with Andrew Byrnes

Wednesday, May 4, 2022, 2pm - 3:15pm ET

Registration

Join Mason's Center for Intellectual Property x Innovation Policy (C-IP2) and Business for a Better World Center (B4BW) for a discussion on translating ideas into impact with Andrew Byrnes. Technology executive, attorney, and investor Andrew Byrnes will discuss the path from developing innovative ideas to achieving broad impact, including key legal issues and business imperatives.

Leveraging experiences from his decades-long career in the private and public sectors working alongside innovators and entrepreneurs, Byrnes will offer insights on leadership, building highfunctioning teams, engaging policymakers, and other critical stakeholders, and navigating existing and emerging regulatory regimes and challenges. There is no cost to attend, but preregistration is required.



From Great Ideas to Global Impact: A Talk with Andrew Byrnes

Wednesday, May 4 | 2:00 - 3:15 PM EDT

In Person and Livestreamed

George Mason University, Van Metre Hall
Arlington Campus



Business for a
Better World Center



Center for Intellectual
Property x Innovation Policy

In the News

- [Seed funding promotes Mason sustainability projects](#), The George News, April 21, 2022.
- [Interdisciplinary Team Creating Guidelines for Probation Officers as Change Agents](#), The George News, April 21, 2022.
- [Didlake's Mason Campus The UPS Store Employs People with Developmental Disabilities](#), School of Business News, April 21, 2022.
- [Bridging the Gap Between Health Care and Technology](#), College of Health and Human Services Research News, April 20, 2022.
- [Sustainable food systems support nutrition and the environment, Mason professor says](#), The George News, April 19, 2022.

Funding Opportunities

NSF Strengthening American Infrastructure (SAI)

Strengthening American Infrastructure (SAI) is an NSF Program seeking to stimulate human-centered fundamental and potentially transformative research aimed at strengthening America's infrastructure. Effective infrastructure provides a strong foundation for socioeconomic vitality and broad quality of life improvement. Strong, reliable, and effective infrastructure spurs private-sector innovation, grows the economy, creates jobs, makes public-sector service provision more efficient, strengthens communities, promotes equal opportunity, protects the natural environment, enhances national security, and fuels American leadership. Achieving these

objectives requires the integration of expertise from across all science and engineering disciplines. SAI focuses on how fundamental knowledge about human reasoning and decision-making, governance, and social and cultural processes enables the building and maintenance of effective infrastructure that improves lives and society and builds on advances in technology and engineering. Successful projects will represent a convergence of expertise in one or more SBE sciences deeply integrated with other disciplines to support substantial and potentially pathbreaking, fundamental research applied to strengthening a specific and focal infrastructure.

General inquiries regarding this funding opportunity should be sent to NSF-SAI@nsf.gov.

- **Anticipated Type of Award:** Standard Grant Estimated
- **Number of Awards:** 35 Up to 10 Planning Grant Awards, up to 15 Research Grant Awards, and up to 10 Conference Awards.
- **Anticipated Funding Amount:** up to \$10,000,000 pending the availability of funds and quality of proposals.
- **Deadline:** May 5, 2022

COLLABORATIVE RESEARCH ACTION – Systems of Sustainable Consumption and Production

The Belmont Forum is pleased to announce the launch of the joint [Collaborative Research Action \(CRA\)](#) on the theme of Systems of Sustainable Consumption and Production. The call launched on 16 Feb 2022 with a closing date **10 May 2022**. Current patterns of global development, based on continuous extraction and exploitation of natural resources are unsustainable. An urgent societal transition to systems of sustainable consumption and production (SSCP) will be necessary to reach a sustainable equilibrium. This announcement is intended to inform interested individuals and groups of the research funding opportunity focused on the co-development of science and stakeholder-based approaches to attain SSCP.

Proposals must be submitted as a group, or “Research Consortium” to be deemed eligible for this call. Research Consortia require three or more consortium participants, representing at least three different countries, each requesting support from at least three participating funding organizations. Proposals submitted by a Research Consortium should include a strong and deliberate linkage between the societal and environmental aspects within Global Change to ensure that they meet the Belmont Challenge for international transdisciplinary research by providing knowledge for understanding, mitigating, and adapting to global environmental change.

This call aims to support activities spanning 3 years. All call documents and the submission portal are posted on the Belmont Forum Grant Operations website: BFgo.org. Additional information on this call and participating funders can be found [here](#).

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.

NSF Civic Innovation Challenge

The [Civic Innovation Challenge \(CIVIC\)](#) is a research and action competition that accelerates the transition to practice of foundational research and emerging technologies into communities through civic-engaged research. By addressing priorities at the local scale that are relevant across the US, CIVIC is laying the foundation for a broader and more fluid exchange of research and technology capabilities and civic priorities through joint partnerships involving civic stakeholders and the research community. CIVIC funds projects that pilot state-of-the-art solutions over 12 months, following a six-month planning phase, and have the potential for lasting impact in the partnering community as well as the potential to be scaled and implemented in other communities.

- **Funding source:** National Science Foundation
 - **Anticipated funding amount:** Stage 1 Planning Grants up to \$50,000, Stage 2 Full Awards up to \$1,000,000
 - **Deadline:** Stage 1: May 5, 2022, Stage 2: February 1, 2023.
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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
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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
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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:

May 12th - Session 3: Ecosystem Services: Green Infrastructure Utilized

Register for Session 3

Students can use code: **RA2022S3SG** to get free registration for Session 3 - Ecosystem Services: Green Infrastructure Utilized

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

Register for all sessions [here](#). Students can use code: **RA2022S5SG** to get free registration for all sessions.

Cost: \$25/session or \$75 for all sessions; **Students and Resilient Virginia Members are free**



**REGISTRATION OPEN!
SPONSORSHIPS AVAILABLE!**

COMPONENTS OF A RESILIENT COMMUNITY

FOUR WEBINARS • FREE FOR MEMBERS

MARCH 10 Economic Activities: Innovative Financing	APRIL 7 Community Action: Tools for Resiliency Planning
MAY 12 Ecosystem Services: Green Infrastructure Utilized	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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