



## THE WEEKLY

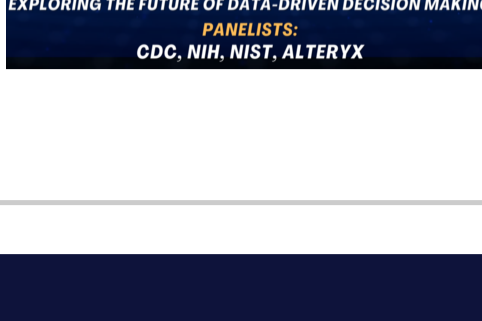
Dear Colleagues,

You are invited to the GovFuture Forum on **May 18** at the Fuse pilot space at Mason Square!

The event will feature government tech demos from the CDC, BFS, Army HR, & Yext and a panel on advanced analytics featuring the CDC, NIH, NIST, and Alteryx.

Event Date: **May 18** from **9:00 to 11:00 am EST**

Register [here](#).



## VARIOUS OPPORTUNITIES

### Artificial Intelligence: Trade-Offs for Security, Ethics, and Human Rights



### NNSA Consolidated Nuclear Security, Inc. Pantex/Y-12 Nuclear Security Enterprise Request for Expertise

In support of the National Nuclear Security Administration (NNSA), ORAU has been requested by the Consolidated Nuclear Security, Inc. Pantex/Y-12 Nuclear Security Enterprise to engage member universities in applied science and engineering research activities.

Applications due: **May 15, 2023**

Questions? Email **Cathy Fore** at [cathy.fore@orau.org](mailto:cathy.fore@orau.org).

### Dear Colleague Letter: Rapidly Accelerating Research on Artificial Intelligence in K-12 Education in Formal and Informal Settings

The unprecedented speed of advancements in machine learning (ML), generative artificial intelligence (AI), and large language models (LLM) is rapidly transforming formal and informal educational settings and systems. Educators and learners are grappling with unanticipated and rapidly changing AI that impacts both day-to-day K-12 classroom practices and the use of AI in informal (out-of-school) settings.

As a result, there is a severe urgent need for research on the use of AI, and the teaching of AI, in K-12 classrooms and informal settings. This Dear Colleague Letter (DCL) invites researchers to submit Rapid Response Research (RAPID) proposals for time-sensitive research including, but not limited to, Developing AI tools and environments to advance age-appropriate equitable learning.

More information is available [here](#).

### High-Performance Computing Bootcamp

The bootcamp is hosted by the Department of Energy (DOE) Advanced Scientific Computing Research (ASCR) Computing Facilities at Argonne National Lab (ALCF), Lawrence Berkeley National Lab (NERSC), and Oak Ridge National Lab (OLCF) and organized by Sustainable Horizons Institute. Designed to provide students in STEM domains with hands-on experience utilizing HPC for [energy justice initiatives](#), this immersive program allows students to work on energy justice projects of their interest while learning the fundamentals of HPC, including parallel computing, job scheduling, and data analysis techniques.

Applications Due: **May 22, 2023**

More information is available [here](#).

### Transparent Language Demo Virtual Meeting

Join the virtual demonstration of [Transparent Language's platform for foreign language training and assessment](#). Transparent Language supports the government, industry, and education with products like its CL-150 platform for synchronous and asynchronous language learning and assessment. Mason faculty could partner with Transparent on research and training grants/contracts to develop new materials, test new pedagogy, measure learning effectiveness, assess language proficiency, and much more.

Meeting Date: **May 19, 2023 at 1:00 pm ET**

Join the Zoom meeting [here](#).

More information is available [here](#).

### Dear Colleague Letter: Availability of Earth Observation Data for NSF-Funded Researchers

Recent developments in satellite and sensor technology have led to unprecedented advances in the resolution, extent, and frequency of Earth observations. High spatial and temporal resolution capabilities now allow for the investigation of crucial research questions across several Earth system science education and research themes. Yet, many of these datasets have previously been unavailable for research purposes because they are generated by commercial providers. This Dear Colleague Letter (DCL) announces the availability of high-quality commercial Earth observation data to NSF-funded researchers at no additional cost through the National Aeronautics and Space Administration (NASA) Commercial SmallSat Data Acquisition (CSDA) Program. To inform and assist interested researchers, this DCL describes the process for gaining access to this imagery, the currently available datasets, and related training resources.

More information is available [here](#).

### Green Energy Innovation Expo



Green energy technology has never been more in demand. The Federal Laboratory Consortium (FLC), AUTM, and the United States Patent and Trademark Office (USPTO) will be sponsoring the Green Energy Innovation Expo, which will highlight the impact of green energy in the fight against climate change.

This event will facilitate partnerships between businesses and federal laboratories, universities, and private-sector innovators—including government-funded startups—offering a wide range of green energy technologies for licensing, including green hydrogen, energy storage, and wind energy.

Event Date: **May 17, 2023 at 9:00 am ET**

More information is available [here](#).

## AWARDS

Congratulations to:

**Raz, Ali Khalid** from the [College of Engineering and Computing](#) for receiving the Intelligence Advanced Research Projects Activity grant on *ARLIS Support for IARPA's STG AI-ML Solutions Program*.

**Luo, Chao** from the [College of Science](#) for receiving the National Science Foundation grant on *Collaborative Research: Catholyte molecular design for non-aqueous Mg-organic hybrid redox flow batteries*.

**Mazin, Igor I.** from the [College of Science](#) for receiving the Office of Naval Research grant on *2D and quasi-2D quantum and magnetic systems*.

**Lowder, Evan Marie** from the [College of Humanities and Social Sciences](#) for receiving the RTI International grant on *Evaluation of Indiana's Recovery Works*.

## FUNDING OPPORTUNITIES

[FCO--AMENDMENT--Science and Technology for Autonomous Teammates \(STAT\)](#)

Deadline: **July 7, 2023**

[RFA-CA-23-035 -- Small Business Transition Grant For Early Career Scientists](#)

Deadline: **July 22, 2023**

## IDIA AFFILIATION

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

Compete for [internally funded IDIA projects](#)

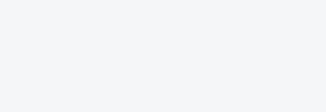
Receive support for [IDIA-relevant events](#)

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](mailto:idia2@gmu.edu)



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