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**To:** [CU-RES-ADMIN-L](#)  
**Subject:** Cornell Research Development Digest - November 17, 2023  
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# Cornell Research Development Digest

*Highlighting events, funding opportunities and resources for the Cornell University research community.*

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[Conducting Research at Cornell](#)   [Find External Funding](#)   [Internal Funding](#)   [Grant Writing Resources](#)   [About Research Development](#)

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*If you intend to apply to a funding opportunity, please notify your unit research administrators and office of sponsored programs/research.*

## UPCOMING EVENTS

### [NSF Fall 2023 Virtual Grants Conference - Registration now open!](#)

**December 4-7<sup>th</sup>** | This conference is designed to give new faculty, researchers, and administrators key insights into a wide range of current issues at the National Science Foundation (NSF), and to provide up-to-date information about policies and procedures, specific funding opportunities, and answer attendee questions. Learn about NSF directorates, proposal preparation, the merit review process, and more.

## EXTERNAL FUNDING OPPORTUNITIES

### [Social Science Research Council Just Tech Fellowship](#)

**Applications due January 31, 2024** | A two-year, full-time, remote fellowship supporting a diverse community of researchers and practitioners investigating the intersection of technology and social justice

### [Simons Foundation Targeted Grants in MPS](#)

**Letters of Intent (LOI) Deadline: Rolling** | The program is intended to support high-risk

theoretical mathematics, physics and computer science projects of exceptional promise and scientific importance on a case-by-case basis.

### [DOE Bipartisan Infrastructure Law \(BIL\) Battery Materials Processing and Battery Manufacturing](#)

**First Round Concept Papers due January 9, 2024** | This FOA provides approximately \$3.5 billion to successful applicants to fund investments within the electric vehicle battery supply chain, increase domestic battery manufacturing, and create good-paying clean energy jobs. The overall scope in this FOA includes demonstration and commercial facilities for battery-grade precursor materials, battery components, and cell manufacturing and recycling.

### [ARPA-E Spurring Projects to Advance Energy Research and Knowledge Swiftly \(SPARKS\)](#)

**Applications accepted any time while this FOA remains open** | This Funding Opportunity Announcement (FOA) provides a continuing opportunity for the rapid support of early-stage applied research to explore innovative new concepts with the potential for transformational and disruptive changes in energy technology. SPARKS awards are intended to be flexible and may take the form of analyses or exploratory research that provides the agency with useful information for the subsequent development of focused technology programs. SPARKS awards may also support proof-of-concept research to develop a unique technology concept.

### [NIH Technology Development to Reduce Health Disparities \(R01 Clinical Trial Optional\)](#)

**Applications due January 26, 2024** | This program seeks advances in medical technologies to reduce health disparities associated with diseases, illnesses, and conditions of public health importance. This announcement encourages applications to develop medical devices, imaging systems, robotic systems, biomaterial interfaces, synthetic biological systems, mathematical and modeling solutions, and other technologies to address the healthcare needs of populations that experience health disparities.

### [NSF Emerging Frontiers in Research and Innovation \(EFRI-2024/25\): Biocomputing through EnGINeering Organoid Intelligence \(BEGIN OI\)](#)

**Letters of Intent due January 17, 2024. Full proposals due February 22, 2024** | The EFRI BEGIN OI program supports foundational and transformative research to advance the design, engineering and fabrication of organoid systems that are capable of processing information dynamically while interfacing with non-living systems.

### [NSF Incorporating Human Behavior in Epidemiological Models \(IHBEM\)](#)

**Submission window: February 1-14, 2024** | The purpose of IHBEM program activity is to support interdisciplinary collaborations that integrate research on behavioral and/or social processes in mathematical epidemiological models. The program provides support for projects that involve balanced participation from the mathematical sciences and from the social, behavioral, and economic sciences. The goal is to minimize unintended outcomes of public health interventions in response to pandemics.

### [NSF Mid-Career Advancement \(MCA\)](#)

**Submission window: February 1 - March 1, 2024** | A cross-directorate program, the MCA offers an opportunity for scientists and engineers at the mid-career stage to substantively enhance and advance their research program and career trajectory. The program provides protected time, resources, and the means to gain new skills through synergistic and mutually beneficial partnerships. PIs must be at the Associate Professor rank, and at that rank for at least 3 years by the proposal submission date.

### [DARPA Strategic Technology Office \(STO\) Office-wide Broad Agency Announcement \(BAA\)](#)

**Closing date: October 31, 2024** | STO is a “systems office,” seeking to create new “proof-of-concept” mission systems. Its goals are to develop and demonstrate new capabilities that expand what is technically possible. This BAA seeks revolutionary research ideas for topics not addressed by ongoing STO programs or other published BAA solicitations.

## PRIZES & AWARDS

### [2024 Robert A. Welch Award in Chemistry](#)

**Nominations due January 31, 2024** | The purpose of the Welch Award is to foster and encourage basic chemical research and to recognize, in a substantial manner, the value of chemical research contributions for the benefit of humankind. Any person can submit a nomination for consideration, but no self-nominations are allowed.

### [The Franklin Institute 2025 Bower Award and Prize for Achievement in Science](#)

**Notice of intent due February 29, 2024. Nominations due March 31, 2024** | This award is presented for outstanding achievement in a different, predetermined field of interest each year. The Franklin Institute seeks nominations of individuals who have made significant scientific contributions to the development of policies and approaches that promote ecosystem restoration and mitigate ecosystem degradation. Nominations are accepted from any individual or organization, including self-nominations.

# ANNOUNCEMENTS

## Introduction to NIH Faculty Panel – Recording Available

This session featured a panel discussion with Cornell University researchers who have successfully secured NIH funding, as well as an overview of NIH's grant-making programs and funding mechanisms. The recording and presentation slides are now available on our training and resources website - [click here](#) for access (Cornell netID login required).

**Research Development** services are focused on proposal development support for teams developing large-scale multidisciplinary center grants and training grants, as well as tenure-track faculty submitting to early career funding opportunities. The Research Development team also provides specialized training, including agency-specific workshops.

### Office of Sponsored Programs and Research Development (OSP)

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