

Funding Opportunities

Described below are funding opportunities that may be of interest to UMassD faculty. The list is not exhaustive! Faculty are encouraged to use [GrantForward](#) to explore funding opportunities and to contact Jennifer Glass, jglass2@umass.edu, Research Development Manager for help with funding searches.

External Funding Opportunities

[National Science Foundation](#) (NSF)

- [Strengthening American Infrastructure](#). March 15, 2023. SAI is an NSF program seeking to stimulate human-centered fundamental and potentially transformative research aimed at strengthening America's infrastructure. 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. 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 social, behavioral or economic sciences, deeply integrated with other disciplines to support substantial and potentially pathbreaking fundamental research applied to strengthening a specific focal infrastructure.
- [Molecular Foundations for Biotechnology, Partnerships to Transform Emerging Industries-RNA Tools/Biotechnology](#). Required letter of intent, March 16, 2023; full proposal, May 11, 2023. This initiative supports fundamentally new approaches in molecular sciences to drive new directions in biotechnology, a critical and emerging technology of the 21st century. This is the third year of a campaign targeting broad themes to be pursued through collaborative high risk/high reward projects. This MFB solicitation calls for creative, cross-disciplinary research and technology development proposals to accelerate understanding of RNA function in complex biological systems and to harness RNA research to advance biotechnology.
- [Future of Work at the Human-Technology Frontier: Core Research](#). March 30, 2023. The Future of Work at the Human-Technology Frontier (FW-HTF) program is one mechanism by which NSF is responding to the challenges and opportunities for the future of jobs and work. The overarching vision of this program is to support multi-disciplinary research to sustain economic competitiveness, to promote worker well-being, lifelong and pervasive learning, and quality of life, and to illuminate the emerging social and economic context and drivers of innovations that are shaping the future of jobs and work.
- [Biodiversity on a Changing Planet](#). March 29, 2023. The Biodiversity on a Changing Planet supports projects using an integrative approach to understand the connections between biodiversity dynamics and functional biodiversity under changing environmental conditions, including climate conditions. Successful projects will address theoretical, methodological, infrastructure, and data gaps regarding biodiversity dynamics and functional biodiversity, and their interactions with climate and Earth systems.
- [Incorporating Human Behavior in Epidemiological Models](#). April 14, 2023. The COVID-19 pandemic revealed three important facts about epidemiological modeling:

- Epidemiological models are invaluable, essential tools in combating a pandemic
- Current models are far less useful than they could be for coping with an ongoing pandemic
- A large community of researchers is available and eager to contribute to the development and improvement of these modeling efforts.

The IHBEM program is motivated by the urgent need to provide more reliable modeling tools to inform decision making and to evaluate public health policies during pandemics and other public health crises, with the premise that important advances may be made by incorporating human behavioral and social processes in mathematical epidemiological models. The goal of this program is to minimize unintended outcomes of public health interventions.

- [Future of Semiconductors](#). April 24, 2023. The solicitation aims to cultivate a broad coalition of researchers and educators from the science and engineering communities that utilizes a holistic, co-design approach to enable rapid progress in new semiconductor technologies. Partnerships between industry and academic institutions are essential to spur innovation and technology transfer, to inform the research needs, and to train the future workforce.
- [Manufacturing Systems Integration](#). Proposals accepted at anytime. The Manufacturing Systems Integration (MSI) Program supports fundamental research addressing the opportunities and challenges that digital technologies present for the next industrial revolution, with particular emphasis on the digital integration of design and manufacturing within the larger life cycle ecosystem. Manufacturing Systems Integration proposals should address underlying principles and advances that are generalizable for globally competitive and world leading industries. Connectivity, automation, and secure collaboration are examples of areas that are integral to digital environments capable of supporting the innovation, realization and sustainment of manufactured products and systems in the value creation process.

National Archives

- [Publishing Historical Records](#) in Collaborative Digital Editions. May 3, 2023. Optional draft due February 15, 2023. The National Historical Publications and Records Commission seeks proposals to publish online editions of historical records. All types of historical records are eligible, including documents, photographs, born-digital records, and analog audio. Projects may focus on broad historical movements in U.S. history, including any aspect of African American, Asian American, Hispanic American, and Native American history, such as law (including the social and cultural history of the law), politics, social reform, business, military, the arts, and other aspects of the national experience.

National Endowment for the Arts (NEA)

- [Research Grants in the Arts](#). March 27, 2023. Funds research studies that investigate the value and/or impact of the arts, either as individual components of the U.S. arts ecology or as they interact with each other and/or with other domains of American life. Matching/cost share grants of \$20,000 to \$100,000 will be awarded.

National Endowment for the Humanities (NEH)

- [NEH Fellowships. April 12, 2023](#). NEH Fellowships are competitive awards granted to individual scholars pursuing projects that embody exceptional research, rigorous analysis, and clear writing. Applications must clearly articulate a project's value to humanities scholars, general

audiences, or both. Fellowships provide recipients time to conduct research or to produce books, monographs, peer-reviewed articles, e-books, digital materials, translations with annotations or a critical apparatus, or critical editions resulting from previous research.

- [NEH-Mellon Fellowships for Digital Publication](#). April 19, 2023. Through NEH-Mellon Fellowships for Digital Publication, the National Endowment for the Humanities and the Mellon Foundation jointly support individual scholars pursuing interpretive research projects that require digital expression and digital publication. To be considered under this opportunity, an applicant's plans for digital publication must be integral to the project's research goals. That is, the project must be conceived as digital because the research topics being addressed and methods applied demand presentation beyond traditional print publication.

National Institutes of Health

- Upcoming Standard Due Dates (for more information click [here](#)):
R01 new: February 5, 2023
R01 resubmission or renewal: March 5, 2023
R03 & R21 new: February 16, 2023
R03 & R21 resubmission or renewal: March 16, 2023
R15 all: February 25, 2023
- [Research Enhancement Award \(R15\)](#). Supports small-scale research projects at educational institutions that provide baccalaureate or advanced degrees for a significant number of the Nation's research scientists but that have not been major recipients of NIH support. The goals of the R15 are to:
 - support meritorious research,
 - expose students to research, and
 - strengthen the research environment of the institution.

Other Funding Opportunities

- [American Mathematical Society-Simons Foundation](#) Research Enhancement Grants for PUI faculty, March 20, 2023. The American Mathematical Society is pleased to announce a new program to foster and support research collaboration by mathematicians employed full-time at primarily undergraduate institutions (PUI), i.e., those that do not award doctoral degrees in mathematics.
- Howard Hughes Medical Institute, [Investigator Program](#), March 21, 2023. The competition is open to basic researchers and physician scientists from more than 300 eligible institutions who catalyze research in basic and biomedical sciences, plant biology, evolutionary biology, biophysics, chemical biology, biomedical engineering, and computational biology.