

The logo for the University of Maryland (UMD) is displayed in yellow text on a red rectangular background.

FUNDING ALERT

Notes

1. Weekly opt-in funding alert provided by the UMD-College Park Division of Research and [SSTI](#). Please feel free to forward this alert to colleagues.
2. If you have been forwarded this email and would like to receive this alert on a weekly basis, please fill out the following form: <http://go.umd.edu/fundingalert>.

SSTI (June 28)

U.S. Department of Energy

Clean Energy Manufacturing Innovation Institute

The DOE Advanced Manufacturing Office invites proposals to support a new Clean Energy Manufacturing Innovation Institute for Industrial Decarbonization through Electrification of Process Heating. The new institute that will conduct research, development, and demonstration focused on developing and scaling electrified processes that reduce emissions, improve flexibility, and enhance energy efficiency of industrial process heating. Federal funding of up to \$70 million must be matched at least 1:1. Nine technical objectives are described in the solicitation. "An effective Institute will include a diverse set of multi-disciplinary experts from industry, academia, state and local governments, NGOs, non-profits, labor unions, national laboratories, and FFRDCs with expertise in the topic area and the facilities and capabilities to address the broad set of challenges" An informational webinar will be held July 14. Concept papers, due in early August, are mandatory.

Awards:

One five-year award of up to \$70 million in federal funding.

Eligibility:

Domestic for-profit, nonprofit and governmental entities

Deadline:

08/09/2022

AwardsID(s):

DE-FOA-0002737

Links:

<https://www.energy.gov/eere/amo/articles/funding-opportunity-announcement-clean-energy-manufacturing-innovation-institute>

Workforce Matters

Fund for Workforce Equity

The Fund for Workforce Equity invites proposals to support organizations in implementing initiatives that center workers and learners of color in designing or implementing workforce policies and programs. The Fund will provide flexible resources and support to workforce development organizations seeking to pilot, adopt, and learn from new strategies as well as innovate on or extend existing strategies that:

- Authentically respect, value, honor, and compensate workers, learners, and job candidates for the skills and perspectives that they bring to designing and implementing workforce programs and policies; and
- Invest in creating spaces for People of Color to exercise their power and agency in developing and implementing workforce programs and policies.

In addition, the Fund for Workforce Equity will support the following strategies:

- **A Learning Community** for grantees to share promising practices and lessons learned.
- **Technical Assistance** that provides grantees access to expertise and resources on human-centered design and other best practices for elevating worker and learner voice.
- **Evaluation and Learning** efforts that shares lessons from the initiative with grantees and the broader workforce field, and that supports funders in disseminating and investing in promising practices among their grantees.

Awards:

Multiple awards up to \$70,000 from a total pool of \$1 million.

Eligibility:

U.S. 501(c)(3) organizations

Deadline:

07/31/2022

Links:

<https://www.workforce-equity.org/rfp/>

New Federal R&D Funding Opportunities

Department of Health and Human Services

Artificial Intelligence to Identify Determinants of Exceptional Health and Life Span

The National Institute on Aging invites applications to develop novel, transformative artificial intelligence/machine learning strategies and computer automation to integrate, extract, and interpret multi-omic (i.e., genome, epigenome, transcriptome, proteome, metabolome, microbiome, phenome) data sets from human exceptional longevity cohorts and multiple non-human species that display a wide variation in life span, and to decipher the relationships between DNA, RNA, proteins, metabolites, and other cell variables, as well as links to disease risks and exceptionally healthy aging.

Awards:

Four awards from total pool of \$750,000.

Eligibility:

Unrestricted domestically

Deadline:

10/21/2022

AwardsID(s):

RFA-AG-23-033

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-23-033.html>

Clinical Studies of Orphan Products Addressing Unmet Needs of Rare Diseases

The Food and Drug Administration anticipates that it will soon be seeking applications to fund clinical trials of products evaluating safety and/or efficacy in support of a new indication or change in labeling to address unmet needs in rare diseases or conditions. Additionally, through the funding of collaborative, efficient, and/or innovative clinical trials, FDA expects to increase the number of approved treatments for rare diseases and exert a broad and positive impact on rare disease drug development. Interested parties are encouraged to follow up with the grantor contact identified in the announcement.

Awards:

Up to 15 awards may be made.

Eligibility:

Unrestricted domestically.

AwardsID(s):

FOR-FD-23-002

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341397>

Planning for Cancer Prevention and Control Clinical Trials

The National Cancer Institute invites proposals for two funding mechanisms to facilitate well-planned clinical trials across the cancer prevention and control spectrum aimed at improving prevention/interception, cancer-related health behaviors, screening, early detection, healthcare delivery, management of treatment-related symptoms, supportive care, and the long-term outcomes of cancer survivors. Preparatory studies may fill information gaps and address unknowns this can include a pilot/feasibility clinical trial if necessary, improving trial design and rigor. For R34 planning grants, see PAR-22-173; for U34 planning cooperative agreements, see: PAR-22-174

Awards:

Multiple three-year awards with \$450,000 in total direct costs.

Eligibility:

Unrestricted (open to foreign and domestic entities)

Deadline:

10/25/2022

AwardsID(s):

PAR-22-173, PAR-22-174

Links:

<https://grants.nih.gov/grants/guide/pa-files/PAR-22-173.html>, <https://grants.nih.gov/grants/guide/pa-files/PAR-22-174.html>

Department of Homeland Security**Innovations in Citizenship Education**

The goal of the Citizenship and Integration Grant Program is to expand the availability of high-quality citizenship preparation services for immigrants across the nation and to provide opportunities for immigrants to gain the knowledge and skills necessary to integrate into the fabric of American society. Past approaches toward this goal have been severely tested during the pandemic. Alternately, the pandemic also has accelerated adoption and creation of a number of different approaches to education generally,

and for preparing individuals for citizenship specifically. As a result, DHS has launched a new funding initiative seeking proposals to creative approaches to preparing immigrants for naturalization and encouraging the civic, linguistic, and cultural integration of immigrants into their communities. Addressing an existing challenge within the citizen education field is a priority. The funding opportunity document provides nearly two dozen examples of needs and interests. Partnerships are encouraged, particularly since the primary applicant must have a minimum of two years of experience in citizenship education; partners may bring additional skills to the innovation. A minimum cost share of 20% is required.

Awards:

Multiple two-year awards ranging between \$50,000 and \$250,000 from a total pool of \$2 million.

Eligibility:

Unrestricted domestically, with the exception of individuals.

Deadline:

08/05/2022

AwardsID(s):

DHS-22-CIS-010-004

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341445>

National Science Foundation

Building Synthetic Microbial Communities for Biology, Mitigating Climate Change, Sustainability and Biotechnology

NSF invites proposals to support research that addresses one or more of the three themes:

1. define the underlying mechanisms or rules that drive the formation, maintenance or evolution of synthetic microbial communities;
2. use synthetic microbial communities to address fundamental biological questions, including questions in molecular biology, cellular/organismal biology, ecology and evolution; and/or,
3. build synthetic communities with biotechnology, bioeconomy or environmental engineering applications, including but not limited to the production of novel biorenewable chemicals, biodegradation of recalcitrant or “forever chemicals,” enabling a circular bioeconomy, fostering sustainable agriculture and mitigating the impacts of climate change. For theme 3, the emphasis should be on designing communities with novel capabilities and understanding the underlying mechanisms that lead to these novel capabilities.

Awards:

12 awards from total funding of \$9.5 million.

Eligibility:

Unrestricted

Deadline:

10/03/2022

AwardsID(s):

NSF 22-607

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341405>

Computational and Data-Enabled Science and Engineering

The goal of the Computational and Data-Enabled Science and Engineering (CDS&E) meta-program is to identify and capitalize on opportunities for major scientific and engineering breakthroughs through new computational and data-analysis approaches and best practices. The CDS&E meta-program will support projects that harness computation and data to advance knowledge and accelerate discovery above and beyond the goals of the participating individual programs. A proposal may address topics that develop or enable interactions among theory, computing, experiment, and observation to achieve progress on hitherto intractable science and engineering problems. Areas of emphasis for CDS&E vary by program; and PIs are advised to consult the "related programs" before submitting. Contacts are provided in the links below. Multiple divisions participate in the program and deadlines vary as a result. The earliest is September 15; the latest is November 15.

Awards:

Multiple awards across several divisions.

Eligibility:

Unrestricted

AwardsID(s):

PD-22-8084

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341299>, <https://beta.nsf.gov/funding/opportunities/computational-and-data-enabled-science-and-engineering-cdse-0>

Experimental Elementary Particle Physics and STEM Education Research

The NSF's Physics Division and the NSF's Division of Undergraduate Education have jointly invited proposals that involve collaboration between an experimental physicist(s) involved in research with the ATLAS or CMS detector and an educator(s) conducting research in STEM education. This partnership between the investigators should enable them to concurrently carry out research in experimental elementary particle physics (EPP) and advance educational practice and education research at the undergraduate (college/university) level within state-of-the-art research environments in physics. This is not a new solicitation, however. Instead it's a letter highlighting interest in receiving proposals addressing this objective through funding opportunity NSF 21-593. See the link below for more details.

Awards:

Two awards are anticipated.

AwardsID(s):

NSF 22-097

Links:

<https://www.nsf.gov/pubs/2022/nsf22097/nsf22097.jsp>

Synthesis Center for Molecular and Cellular Sciences

NSF seeks to establish a Synthesis Center for Molecular and Cellular Sciences that will advance our ability to explain and predict complex molecular and cellular phenomena through innovative synthesis and integration of available biological data and related scientific knowledge. The Center will provide the vision, infrastructure, and expertise to support communities in drawing together information, including data, methods, conceptual frameworks, theories, and models that are currently dispersed across different scientific domains, in order to address compelling, multi-scale questions and open new avenues of inquiry in the molecular and cellular biosciences. To accomplish this vision, the Center will adopt open science principles and team science approaches that enable data sharing and effective, inclusive collaborations among researchers across biological, chemical, computational, mathematical, and physical sciences and

engineering disciplines. In addition to supporting information synthesis to enable research, the Center will develop training programs that empower new generations of researchers to solve challenging problems using data-intensive, cross-disciplinary, and collaborative science. The Center is also expected to serve as an exemplar in engaging diverse scientists from different types of institutions and across disciplinary, demographic, and geographic lines.

Awards:

A single, multi-year award of up to \$20 million.

Eligibility:

Nonprofit organizations and U.S accredited institutions of higher education.

Deadline:

07/07/2023

AwardsID(s):

NSF 22-608

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341406>

New SBIR/STTR Funding Opportunities

Department of Health and Human Services

Advancing Research on Alzheimer's Disease and AD-Related Dementias

The National Institute of Neurological Disorders and Stroke and National Institute on Aging jointly invite SBIR and STTR applications to support research that may lead to the development of innovative products and/or services that have the potential to advance progress in preventing and treating Alzheimer's disease (AD) and AD-related dementias (ADRD) and/or caring for and treating patients living with AD/ADRD. The announcement includes more than two dozen examples of AD/ADRD research interests across prevention, diagnosis, treatment, care and tools.

Awards:

40 SBIR awards from pool of \$20 million; 10 STTR awards from pool of \$4 million.

Eligibility:

U.S. small business concerns

Deadline:

01/05/2023

AwardsID(s):

For SBIR, see: PAS-22-196, For STTR, see: PAS-22-197

Links:

<https://grants.nih.gov/grants/guide/pa-files/PAS-22-196.html>, <https://grants.nih.gov/grants/guide/pa-files/PAS-22-197.html>

Therapeutic Development of Psychoplastogenic Compounds for Substance Use Disorders

The National Institute on Drug Abuse invites SBIR proposals to develop psychoplastogenic compounds (PC) and new in vivo psychedelic behavioral pharmacology models for drug discovery and drug development for treating Substance Use Disorders (SUD), excluding alcohol use disorder. Specifically sought are applications to validate PC-based pharmacotherapeutics or in vivo psychedelic related PC behavioral model or assay development or any combination of these activities in the context of SUD. Projects, proposing the development of PC therapeutics for a DSM5-defined SUD, will be considered equally responsive. Total

funding support (direct costs, indirect costs, fee) may not exceed \$320,000 for Phase I awards and \$2,500,000 for Phase II awards.

Awards:

5-10 awards from total funding of \$2 million.

Eligibility:

U.S. small business concerns

Deadline:

11/18/2022

AwardsID(s):

RFA-DA-23-017

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-23-017.html>

New Foundation R&D Funding Opportunities

Arnold and Mabel Beckman Foundation

Young investigators in chemical and life sciences research

The Beckman Young Investigator (BYI) Program provides research support to the most promising young faculty members in the early stages of their academic careers in the chemical and life sciences, particularly to foster the invention of methods, instruments and materials that will open up new avenues of research in science. Projects should represent a departure from current research directions rather than an extension or expansion of existing programs. Proposed research that cuts across traditional boundaries of scientific disciplines is encouraged. Tenure-Track dates for the 2023 program must start after 1/1/2018 AND before 8/1/2022. Applicants can have no more than \$225,000 in direct, annualized external funding grants during any BYI Program Year (Aug-July) at time of application. Start-up funds, department-wide instrumentation grants, and "Transition" grants received as a postdoc (such as NIH K99/R00) are not counted toward this total.

Awards:

Awards up to \$600,000 over four years.

Eligibility:

US citizens and permanent residents within the first 4 years of a tenure-track position, or an equivalent independent research appointment, at a United States academic or non-profit institution that conducts research in chemical and life sciences.

Deadline:

08/01/2022

Links:

<https://www.beckman-foundation.org/programs/beckman-young-investigator/>

Association for Academic Surgery

Early career research support for academic surgeons

The Joel J. Roslyn Faculty Research Award provides early-career research support to junior faculty members of the Association of Academic Surgery (AAS). This proposal may be submitted to other funding sources for support, but this must be acknowledged on the application form. Submission for support elsewhere will not affect the evaluation of this proposal. However, should the applicant be awarded the Roslyn Award, there must be no scientific or budgetary overlap between the Roslyn Award and other awards or grants.

Awards:

A single award of \$50,000 for direct-cost expenditures (excluding salary).

Eligibility:

AAS members who are full-time faculty in any surgical specialty or discipline who have not yet attained the rank of Associate Professor.

Deadline:

08/01/2022

Links:

<https://www.aasurg.org/awards/roslyn-faculty-award/>

Camille & Henry Dreyfus Foundation

Teacher-Scholars in chemical sciences

The Henry Dreyfus Teacher-Scholar Awards Program supports the research and teaching careers of talented young faculty in the chemical sciences at undergraduate institutions. The Foundation seeks tenure-track applicants who, as independent faculty members, have demonstrated leadership in original scholarly research of outstanding quality, substantially with undergraduates, as well as excellence and dedication in undergraduate education. Based on institutional nominations, the program provides discretionary funding to faculty at an early stage in their careers. The award is based on accomplishment in scholarly research with undergraduates, as well as a compelling commitment to teaching. A potential nominee is ineligible if there is active participation or substantial research productivity in a Ph.D. program of another department or in an interdisciplinary Ph.D. program.

Awards:

An award of \$75,000

Eligibility:

U.S. institutions of higher ed that grant bachelor's or master degrees in chemical sciences (not doctoral degree institutions)

Deadline:

08/04/2022

Links:

<https://www.dreyfus.org/henry-dreyfus-teacher-scholar/>

Foundation for Physical Therapy Research

Acute Care Research

The foundation invites applications from emerging investigators to support research related to issues relevant to acute care physical therapy practice. FPTR supports only those intervention studies in which physical therapists provide the interventions, or selected components of the interventions are provided by physical therapist assistants, under the direction and supervision of physical therapists. The foundation defines an "emerging investigator" as one who has not previously acquired a substantive extramural research award as an independent principal investigator (e.g., National Institutes of Health R01, Veterans Administration Merit Award, National Institutes of Disability and Rehabilitation Research Field-Initiated Project).

Awards:

Two-year awards up to \$40,000.

Eligibility:

Funds are available only for research done in U.S. institutions.

Deadline:

08/05/2022

Links:

<https://philanthropynewsdigest.org/rfps/rfp13940-foundation-for-physical-therapy-research-invites-applications-for-acute-care-research-grant-program>

New Challenges and Prize Competitions

Department of Health and Human Services

LymeX Diagnostics Prize

The multiphase, multiyear competition calls on scientific, technical, and clinical experts to submit innovative methods for detecting active Lyme disease infections in people. The ultimate goal is to nurture the development of these diagnostics toward premarket submission for Food and Drug Administration review. The first phase will award up to \$1 million, at HHS discretion. CDC currently recommends a two-step testing process for Lyme disease. New tests may be developed as alternatives to one or both steps of the two-step process.

Awards:

Up to 10 participants share \$1 million in Phase I.

Eligibility:

Unrestricted.

Deadline:

08/08/2022

Links:

<https://www.challenge.gov/?challenge=lymex-diagnostics-prize>, <https://www.lymexdiagnosticsprize.com/>

Product Prototypes to Combat Drug Craving

The National Institute on Drug Abuse invites working prototypes of multifaceted products that will help with drug craving in people who experience substance use problems or with substance use disorder (SUD). Ideally, these multifaceted product prototypes would combine several different tools or features to address drug craving, providing long-term, on-demand, and personalized comprehensive assistance that can ultimately reduce the likelihood of return to use (also known as recurrence).

Awards:

First and second prizes of \$50,000 and \$35,000 respectively.

Eligibility:

Unrestricted.

Deadline:

08/31/2022

Links:

<https://www.challenge.gov/?challenge=product-prototypes-to-combat-drug-craving-challenge>

The Million Hearts® Hypertension Control Challenge

The Centers for Disease Control invites applications that identifies clinicians, practices, and health systems that have demonstrated exceptional achievements in working with their patients to control hypertension. CDC will be recognizing those who have achieved blood pressure control (blood pressure reading below 140 mm Hg/90 mm Hg) among 80% of their hypertensive population aged 18–85 years

Awards:

Nonmonetary recognition and promotion through CDC and Million Hearts.

Eligibility:

U.S. public and private clinicians, medical practices, and health systems

Deadline:

09/07/2022

Links:

<https://www.challenge.gov/?challenge=2022-million-hearts%C2%AE-hypertension-control-champions-challenge>, <https://hypertension.millionhearts.hhs.gov/>

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