

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 (July 05)

New Federal R&D Funding Opportunities

Department of Defense

Research Infrastructure for Trauma with Medical Observations

DARPA is soliciting innovative research proposals from cross-disciplinary teams to provide de-identified clinical trauma data in support of a potential follow-on DARPA program. The Research Infrastructure for Trauma with Medical Observations (RITMO) program will combine large-volume multimodal sensor, intervention, and medical outcome data obtained from trauma patients during the early post-injury period into a single database. If the follow-on program is initiated, the goal would be to use data collected in RITMO to identify novel physiological signatures that could enhance triage decision-making in austere, complex, and mass-casualty settings.

Awards:

Multiple awards lasting up to 3.5 years are anticipated.

Eligibility:

Unrestricted

Deadline:

07/20/2022

AwardsID(s):

HR001122S0043

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341567>

Department of Health and Human Services

Harnessing Technologies to Support Oral Health Promotion and Management Outside the Dental Setting

The National Institute of Dental and Craniofacial Research invites research proposals with clinical trials to develop and/or adapt and test technology-facilitated behavioral, social, and organizational tools for use in oral health promotion and management outside the dental setting. Of particular interest are tools that harness mobile, web, sensor, or other technology-based platforms with the potential to improve oral care at home or in the community; to facilitate needs assessment, treatment planning, and engagement; and to expand access to quality care for those who are under-served. Awards made under this announcement will initially support a milestone-driven planning phase for up to 2 years, with possible transition to a clinical trial implementation phase of up to five years.

Awards:

4-6 awards from total pool of \$1.5 million in FY 2023.

Eligibility:

Unrestricted domestically.

Deadline:

11/10/2022

AwardsID(s):

RFA-DE-23-009

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-DE-23-009.html>

Kidney National Resource Centers

The National Institute of Diabetes and Digestive and Kidney Diseases has issued two opportunities related to creating and sustaining a national network of resource centers to lead a nation-wide effort to advance kidney research. The Consortium will consist of approximately eight National Resource Centers (see announcement PAR-22-207) and one National Coordinating Center (see announcement PAR-22-208). The NRCs will:

1. establish theme-based cores to develop and nationally share unique resources, tools, technologies, services, and expertise that will support and advance kidney research;
2. promote the development of novel resources to stay abreast of emerging trends;
3. promote inclusion of investigators from diverse scientific disciplines;
4. promote the inclusion of investigators and fellows from diverse background; and,
5. expand the pool of investigators pursuing kidney research by attracting investigators that are new or from non-renal fields to join the kidney research community.

Specifically, the NCC will: provide administrative support and coordination for the entire Consortium; establish and curate a “one-stop-shop” sharing portal for the entire Consortium; develop and implement a multipronged communication and education plan for researchers and students interested in conducting kidney research to maximize national outreach and impact; ensure that patient viewpoints, priorities, and preferences inform all aspects of the Consortium; and, administer and manage a national Opportunity Pool program to address gaps and promote collaboration.

Awards:

A total of \$8,347,500 is anticipated to support the entire network

Eligibility:

Unrestricted domestically.

Deadline:

12/01/2022

AwardsID(s):

RFA-DK-22-007, RFA-DK-22-008

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-DK-22-007.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-DK-22-008.html>

Molecular Dynamics of HIV

The National Institute of Allergy and Infectious Diseases invites proposals to support computational dynamic modeling of molecular complexes regulating the HIV life cycle, immune responses, and therapeutic interventions in HIV/AIDS using existing and new HIV and HIV/host cell structural datasets. Development of new technological innovation in modeling approaches and computational processes is highly desired, as are projects that leverage machine learning / artificial intelligence to facilitate analyses. Research teams should include computational modelers along with structural biologists, virologists, immunologists or other appropriate expertise to validate model systems. Applications that propose vertebrate animal research and/or clinical research are allowed.

Awards:

3-5 awards from total pool of \$3 million.

Eligibility:

Unrestricted (foreign and domestic entities are eligible).

Deadline:

12/07/2022

AwardsID(s):

RFA-AI-22-050

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-AI-22-050.html>

Muscular Dystrophy Specialized Research Centers

Multiple NIH institutes collectively invite proposals for centers to promote collaborative basic, translational, and clinical research and provide important resources that can be used by the national muscular dystrophy research communities. The Centers also provide outstanding environments for the training of new researchers capable of addressing high priority objectives in muscular dystrophy research. Center investigators are expected to participate in important community outreach efforts to increase awareness of their research activities in the patient and advocacy communities and to incorporate community perspectives into the conduct of patient-centered research.

Awards:

Up to three awards from a total of \$4.8 million.

Eligibility:

Unrestricted domestically.

Deadline:

09/30/2022

AwardsID(s):

RFA-AR-23-001

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-AR-23-001.html>

NIDA Program Project Grants

The National Institute on Drug Abuse invites collaborative research by multi-disciplinary teams to address critical issues of neuroscience, genetics, behavior, prevention, treatment, epidemiology, etiology, health services, HIV/AIDS and co-occurring opportunistic infections (e.g., viral hepatitis C, tuberculosis, sexually transmitted infections) and associated consequences in substance abusing populations, medication development, or other research areas relevant to drug abuse. Individual notices of special interest also have been released to help guide research project design. See link for more details.

Awards:

Multiple awards are anticipated, each lasting up to five years.

Eligibility:

Unrestricted domestically.

Deadline:

09/25/2022

AwardsID(s):

PAR-22-201

Links:

<https://grants.nih.gov/grants/guide/pa-files/PAR-22-201.html>

NIDDK Central Repository Non-renewable Sample Access

The National Institute of Diabetes and Digestive and Kidney Diseases Central Repository houses valuable biological samples and data from numerous major clinical studies. This initiative allows investigators to apply for access to non-renewable samples from one or more of these studies. Information about the samples available can be found at the Repository's [website](#). Applicants must include a volume and impact assessment report from the NIDDK Central Repository with the application to document sample availability.

Awards:

No funds are provided.

Eligibility:

Unrestricted (foreign and domestic entities are eligible.)

Deadline:

10/27/2022

AwardsID(s):

PAR-22-171

Links:

<https://grants.nih.gov/grants/guide/pa-files/PAR-22-171.html>

Pilot Projects Investigating Understudied Proteins Associated with Rare Diseases

The National Center for Advancing Translational Sciences and the National Institute of Mental Health jointly invite small grant research proposals for pilot projects to elucidate a role for understudied proteins associated with rare diseases. Awards will support generation of preliminary data and/or tools around eligible understudied protein(s). A list of eligible proteins is provided and are members of druggable protein families that have a known association with a rare disease. The R02 small grant is intended to jumpstart research on understudied proteins that are associated with rare diseases and provide applicants with sufficient funding to perform basic biochemical and/or biological work to further the characterization of understudied proteins associated with rare disease.

Awards:

8-10 awards, lasting no more than one year each, from a total pool of \$1.5 million.

Eligibility:

Unrestricted domestically.

Deadline:

10/17/2022

AwardsID(s):

RFA-TR-22-030

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-TR-22-030.html>

RFI: Input on Advancing Research in Immuno-oncology, Immunoprevention, and/or Immunotherapy

The National Cancer Institute (NCI) seeks input on future needs and directions in immuno-oncology and/or immunotherapy research. This request for information is part of a multi-factorial planning process designed to recognize current research gaps, identify emerging scientific areas, and promising research opportunities in both basic science and translational research to accelerate progress in developing new immunoprevention and immunotherapy targets and strategies.

Awards:

No funding is associated with this announcement

Eligibility:

Unrestricted

Deadline:

04/11/2022

AwardsID(s):

NOT-CA-22-072

Links:

[NOT-CA-22-072](https://grants.nih.gov/grants/guide/notice-files/NOT-CA-22-072.html)

Structural Biology of Alzheimer's Disease Related Dementias Proteinopathies

The National Institute of Neurological Disorders and Stroke and the National Institute on Aging jointly invites proposals to support studies that characterize the structure of protein aggregates found in the Alzheimer's disease related dementias such as alpha-synuclein, Tau, TDP-43, TMEM106B, and FUS at a high, atomic-level resolution, using approaches such as cryo-electron microscopy, cryo-electron tomography, and nuclear magnetic resonance spectroscopy. Studies proposed can also include the development of research tools and resources to further characterize and validate the structural findings and their relevance to human disease.

Awards:

Multiple awards lasting up to five years.

Eligibility:

Unrestricted (foreign and domestic entities are eligible).

Deadline:

10/07/2022

AwardsID(s):

PAR-22-208

Links:

<https://grants.nih.gov/grants/guide/pa-files/PAR-22-208.html>

National Aeronautics and Space Administration

Earth Science Research from Operational Geostationary Satellite Systems

The NASA Earth Science Division invites proposals exploiting the research potential inherent to the current generation of geostationary environmental satellites with advanced instruments, particularly the GOES-R series of satellites. They provide a unique opportunity to observe Earth system parameters that complement NASA's observations from low earth orbit and offer unprecedented spatial and temporal resolution of Earth observations. The present funding opportunity focuses on the scientific research enabled by the high frequency ABI and GLM observations on the GOES-16/17/18 platforms. Notice of Intent letters are requested by Aug 2.

Awards:

Up to eight awards lasting no more than 36 months may be made from a first-year budget of \$1.5 million.

Eligibility:

Proposers must be affiliated with an institution at nspires.nasaprs.com/

Deadline:

10/19/2022

AwardsID(s):

NNH22ZDA001N-ESROGSS

Links:

<https://nspires.nasaprs.com/external/solicitations/summary.do?solId={89E7094B-A844-EE93-3A21-B4B92C1D5B4E}>

Heliophysics Citizen Science Investigations

NASA invites applications to expand the citizen science opportunities through medium-scale citizen science projects. This first H-CSI call enables citizen science during the upcoming Heliophysics Big Year, encouraging proposers to take advantage of the concurrence of multiple solar and heliophysics events. The Big Year, roughly September 2023 through December 2024 encompasses two solar eclipses across North America in 2023 and 2024 and the arrival of solar cycle maximum. Step One proposal summaries, due Aug 18, are mandatory for consideration to advance to Step Two consideration.

Awards:

Two awards lasting up to three years, from a total pool of \$300,000.

Deadline:

08/18/2022

AwardsID(s):

NNH22ZDA001N-HCSI

Links:

<https://nspires.nasaprs.com/external/solicitations/summary.do?solId={31042066-A523-9D73-8A87-98FE72544A1F}>

University Leadership Initiative

NASA invites proposals from university teams to exercise technical and organizational leadership in proposing unique technical challenges in aeronautics, defining multi-disciplinary solutions, establishing peer review mechanisms, and applying innovative teaming strategies to strengthen the research impact. Research proposals are sought in eight topic areas:

- Topic 1: Safe, Efficient Growth in Global Operations (Strategic Thrust 1)
- Topic 2: Innovation in Commercial Supersonic Aircraft (Strategic Thrust 2)
- Topic 3: Ultra-Efficient Subsonic Transports (Strategic Thrust 3)
- Topic 4: Safe, Quiet, and Affordable Vertical Lift Air Vehicles (Strategic Thrust 4)
- Topic 5: In-Time System-Wide Safety Assurance (Strategic Thrust 5)
- Topic 6: Assured Autonomy for Aviation Transformation (Strategic Thrust 6)
- Topic 7: Zero Emission Aviation
- Topic 8: Materials and Structures for Next-Generation Aerospace Systems

Short Step-A proposals are mandatory for further consideration. An Applicant's Workshop will be held on Thursday July 14, 2022; 1:00pm (Eastern)

Awards:

Funding levels vary by topic.

Eligibility:

Accredited U.S. institutions of higher education

Deadline:

08/30/2022

AwardsID(s):

NNH21ZEA001N-ULI

Links:

<https://nspires.nasaprs.com/external/solicitations/summary.do?sollid={3F2A4D87-150E-53AB-A0E8-17071C1AF308}>

National Science Foundation

Condensed Matter and Materials Theory

The Directorate for Mathematical and Physical Sciences invites research proposals exploring Condensed Matter and Materials Theory. Research may encompass the advance of new paradigms in materials research, including emerging data-centric approaches utilizing data-analytics or machine learning. Computational efforts span from the level of workstations to advanced and high-performance scientific computing. Emphasis is on approaches that begin at the smallest appropriate length scale, such as electronic, atomic, molecular, nano-, micro-, and mesoscale, required to yield fundamental insight into material properties, processes, and behavior, to predict new materials and states of matter, and to reveal new materials phenomena. Proposals will be accepted at any time.

Awards:

Up to 40 awards from a total pool of \$15 million.

Eligibility:

Limited to nonprofits and U.S. institutions of higher education.

AwardsID(s):

NSF 22-610

Links:

https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf22610

Topical Materials Research Programs

With this single funding announcement, the Directorate for Mathematical and Physical Sciences invites research proposals for six different areas within the Topical Materials Research Program: Biomaterials, Ceramics, Condensed Matter Physics, Electronic and Photonic Materials, Metals and Metallic Nanostructures, Polymers, and Solid State and Materials Chemistry. The awards are intended to enable

understanding of the electronic, atomic, and molecular structures, mechanisms, and processes that govern nanoscale to macroscale morphology and properties; manipulation and control of these properties; discovery of emerging phenomena of matter and materials; and creation of novel design, synthesis, and processing strategies that lead to new materials with unique characteristics. Proposals may be submitted at any time.

Awards:

250 awards from total funding of \$660 million

Eligibility:

Nonprofits and U.S. Institutions of higher education

AwardsID(s):

NSF 22-609

Links:

https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf22609

New SBIR/STTR Funding Opportunities

Department of Health and Human Services

Enabling SUD Digital Therapeutics Research to Improve Payor Adoption

The National Institute on Drug Abuse invites SBIR Fast Track and Direct to Phase II proposals from small business concerns to provide targeted funding for systematic research and/or clinical experimentation activities to collect sufficient, to the payors, evidence on the therapeutic value of digital therapeutics for substance use disorders, excluding the alcohol use disorder. The engagement with FDA's Center for Devices & Radiological Health (CDRH) Early Payor Feedback Program to obtain payor input on clinical trial design or other plans for gathering clinical evidence needed to support positive coverage decisions is strongly encouraged and will be evaluated during the peer review.

Awards:

Three awards from total funding of \$3 million.

Eligibility:

U.S. small business concerns

Deadline:

11/15/2022

AwardsID(s):

RFA-DA-23-018

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-23-018.html>

Incorporating Genetic Diversity into Toxicity Testing

The National Institute of Environmental Health Sciences invites SBIR proposals from U.S. small business concerns to develop resources and approaches, including panels of cells or model organisms, that reflect the variability in human populations in chemical toxicity testing. Current toxicology testing is often limited to studies conducted in a small number of laboratory rodent strains, which can fail to identify clinically relevant toxicity if the conventional rodent strain is particularly resistant to the toxic effects of the test compound. Cost-effective screening systems with appropriate throughput are needed to better capture the variability in responses to chemical exposure in the human population.

Awards:

6-8 awards from a total of \$3 million.

Eligibility:

U.S. small business concerns

Deadline:

11/08/2022

AwardsID(s):

RFA-ES-22-006

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-22-006.html>

New Foundation R&D Funding Opportunities

American Hearing Research Foundation

Hearing and balance disorder research

The American Hearing Research Foundation invites applications for its AHRF Discovery Grants into hearing loss and balance disorders related to the inner ear. Both basic and clinical studies may be proposed that investigate aspects of the auditory and vestibular systems including but not limited to genetics, neurotology, anatomy, auditory processing, molecular and cellular biology, therapeutic studies, and investigations of current or experimental devices (i.e., cochlear implants). Priority is given to investigators early in their careers who need seed funds to generate results and data that can be used to support applications for larger grants (i.e., NIH grants) in the future. Grant funds may only cover 80 percent of direct project costs.

Awards:

6-10 awards of up to \$50,000 for one-year research projects.

Eligibility:

Applicants must hold an MD, PhD, AuD, or equivalent degree(s) and be associated with a university or hospital in the US.

Deadline:

08/15/2022

Links:

<https://www.american-hearing.org/research-grants/grants-we-offer/>

Howard Hughes Medical Institute

Freeman Hrabowski Scholars Program

In this new scholars program, HHMI is seeking creative and innovative early career faculty, basic researchers, including physician-scientists, who have strong potential to become leaders in their fields and to advance diversity, equity, and inclusion through their mentorship and understanding of the experiences of trainees from races and ethnicities underrepresented in US science. Scholars will prioritize scientific excellence in their own research while creating an equitable and inclusive lab climate that values diversity and serves as a model within their own institutions and beyond. Eligible research areas include all basic biomedical science disciplines, as well as plant biology, evolutionary biology, biophysics, chemical biology, biomedical engineering, and computational biology. Scholar appointments may last up to ten years.

Awards:

Up to 30 scholars may receive \$8.6 million each.

Deadline:

09/28/2022

Links:

<https://www.hhmi.org/programs/freeman-hrabowski-scholars>

National Multiple Sclerosis Society

Two Multiple Sclerosis Research Scholarships

The National Multiple Sclerosis Society invites applications for two scholarship award programs named after distinguished contributors to advancing research toward the cure for and end of MS.

- The Sylvia Lawry Physician Fellowship Program, named in honor of the Society's founder, is designed to help increase the number of physicians **trained in conducting MS-related clinical trials**. The award provides an individual (with an MD or equivalent medical degree) up to 3 years of formal training, under the tutelage of an established investigator, in key elements associated with conducting clinical trials in MS. Residents who have or will have received training in neurology or psychiatry in the United States, and who are in the PGY3 or PGY4 stage or beyond, are eligible to apply.
- The **Harry Weaver Scholar Awards** recognize highly qualified candidates who have concluded their research training and begun academic careers as independent investigators in an area related to multiple sclerosis. The awards are designed to provide salary and grant support for a five-year period, thus permitting the awardee to establish competence in his/her chosen research area. Application must be made jointly by a candidate and the institution in which an appointment is held.

Deadline:

08/10/2022

Links:

<https://www.nationalmssociety.org/For-Professionals/Researchers/Society-Funding/Training-Grants-and-Fellowships/Sylvia-Lawry-Physician-Fellowships>, <https://www.nationalmssociety.org/For-Professionals/Researchers/Society-Funding/Training-Grants-and-Fellowships/Harry-Weaver-Neuroscience-Scholar-Awards>

Preparedness & Treatment Equity Coalition

Health Inequities Research

The PTEC Health Inequities Research Grant Program supports studies and development of methods for the collection and use of data in support of efforts to decrease health inequity in the U.S. healthcare system. Novel approaches and inspired collaborations are necessary to identify ways to measure and reward more equitable health outcomes. PTEC is particularly focused on solutions for conditions that disproportionately affect racialized communities (Black, Latinx, Asian, and Native American). These conditions include cardiovascular disease, metabolic disorders, vaccine equity, and cancer. Specifically sought are studies that harness the power of data to identify metrics, outcome measures, or payment models that can be used to encourage practices that decrease inequity in the healthcare system. Brief concept proposals are due by July 29.

Awards:

Three awards of \$50,000 for project-related costs.

Deadline:

07/29/2022

Links:

<https://ptechealth.org/research-grant-program>

Sociological Initiatives Foundation

Sociological research linking research to social action

The Sociological Initiatives Foundation supports social change by linking research to social action. It funds research projects that investigate laws, policies, institutions, regulations, and normative practices that may limit equality in the United States and its territories. It gives priority to projects that seek to address racism, xenophobia, classism, gender bias, exploitation, or the violation of human rights and freedoms. It also supports research that furthers language learning and behavior and its intersection with social and policy questions. In the context of social and racial inequality dating back centuries, the Foundation supports projects that address institutional rather than individual or behavioral change. It seeks to fund research and initiatives that provide insight into sociological and linguistic issues that can help specific groups and or communities expand opportunities and challenge injustices.

Awards:

Grants typically range between \$15,000 and \$20,0000

Eligibility:

Limited to 501(c)(3) nonprofit organizations that are "not a private foundation."

Deadline:

08/16/2022

Links:

<https://www.sifoundation.org/guidelines/>

Spencer Foundation

Education Research

The foundation invites field-initiated research proposals for its Small Research Grants Program, which support projects that "contribute to the improvement of education, broadly conceived." The goal is to support rigorous, intellectually ambitious and technically sound research that is relevant to the most pressing questions and compelling opportunities in education. The program supports proposals from multiple disciplinary and methodological perspectives, both domestically and internationally, from scholars at various stages in their career. We anticipate that proposals will span a wide range of topics and disciplines that innovatively investigate questions central to education, including for example education, anthropology, philosophy, psychology, sociology, law, economics, history, or neuroscience, amongst others.

Awards:

Awards of \$50,000 over five years.

Eligibility:

Doctorates in an academic/professional field or have obtained appropriate experience in an education research-related profession.

Deadline:

08/09/2022

Links:

https://www.spencer.org/grant_types/small-research-grant

New Challenges and Prize Competitions

The Story Exchange

Recognizing women leading efforts in air quality and climate change

In its 2nd annual Women In Science Incentive Prize, the Story Exchange will award \$5,000 incentive prizes to five female scientists working to improve air quality and protect health. The cash prize will support U.S.-based women working to find innovative, science-based solutions in the area of climate change mitigation and adaptation. Eligible candidates for the Women In Science Incentive Prize will be scientists with advanced degrees in the fields of physics, chemistry, engineering, biology, environmental science or closely related fields; or entrepreneurs with advanced degrees who are creating science-based products and technology to help mitigate/reduce the impact of climate change. Preliminary applications are due July 31.

Awards:

five awards of \$5,000 each

Deadline:

07/31/2022

Links:

<https://thestoryexchange.org/women-in-science-incentive-prize-2022/>

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