

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 (March 29)

New Federal R&D Funding Opportunities

Department of Commerce

American Lobster Research Program

Supports partnerships among industry, State agencies, and/or academia to address priority issues involving applied research and/or technological questions impacting the lobster fishery. The program specifically supports projects with a geographic focus on the Gulf of Maine, Georges Bank, and/or southern New England and which address one or more of the following topics:

1. Development and operationalization of gear technologies, including sub-sea gear location that help industry comply with the requirements set forth in the final 2021 rule (FR-210827-0171) to modify the Atlantic Large Whale Take Reduction Plan (ALWTRP); and
2. Socio-technological or socio-economic research to understand the social, economic, and technological opportunities and/or barriers associated with bringing gear technology to commercial scale in the lobster fishery.

Awards:

Multiple awards of up to \$750,000 each

Eligibility:

Restricted to domestic non-federal organizations

Deadline:

05/24/2022

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338870>

NOAA Ocean Exploration

Supports interdisciplinary ocean exploration in waters under U.S. jurisdiction that support national priorities, including NOAA science and technology priorities of uncrewed systems, artificial intelligence, cloud computing, 'omics data, and citizen science. Data collected are used to understand and maintain a healthy ocean, sustainably manage marine resources, accelerate the national economy, and build a better appreciation of the value and critical importance of the ocean in our everyday lives.

Awards:

Up to 10 awards with a combined total of \$3 million

Eligibility:

Unrestricted domestically

Deadline:

09/29/2022

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338956>

Department of Defense**2022 Autism Research Program**

Supports research of exceptional scientific merit and innovation with high impact that focuses on autism spectrum disorder (ASD). There are three separate funding opportunities associated with this announcement as follows:

- **Idea Development Awards** - supports collaborative research to bring a new perspective to ASD research and/or facilitate progress in the field by combined efforts. Therefore, the ARP Idea Development Award mechanism includes a Partnering PI Option, which is structured so that two investigators, each of whom will be designated as a PI and receive a separate award, will work synergistically on a single project. One PI will be identified as the Initiating PI and will be responsible for the majority of the administrative tasks associated with application submission. The other PI will be identified as a Partnering PI. *Up to four awards with a combined total of \$3.52 million may be made.*
- **Career Development Awards** - supports early-career, independent investigators and/or the transition of established investigators from other research fields to conduct innovative, high-impact ideas or early-phase, proof-of-principle clinical trials with the potential to have a major impact on ASD. *Up to four awards with a combined total of \$3.52 million may be made.*

- **Clinical Trial Awards** - supports the rapid implementation of clinical trials with the potential to have a significant impact on the treatment or management of ASD. Clinical trials may be designed to evaluate promising new products, pharmacologic agents (drugs or biologics), behavioral interventions, devices, clinical guidance, and/or emerging approaches and technologies. Funding from this award mechanism must support a clinical trial and may not be used for preclinical research studies. *Two awards with a combined total of up to \$2.64 million may be made.*

Awards:

Multiple awards of various amounts

Eligibility:

Unrestricted

Deadline:

08/18/2022

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338980>, <https://www.grants.gov/web/grants/view-opportunity.html?oppld=338979>, <https://www.grants.gov/web/grants/view-opportunity.html?oppld=338992>

2022 Ovarian Cancer Research

Supports patient-centered research to prevent, detect, treat, and cure ovarian cancer to enhance the health and well-being of Service Members, Veterans, their family members, and all women impacted by this disease. Specifically, the program supports the rapid implementation of clinical trials with the potential to have a significant impact on the treatment or management of ovarian cancer. Clinical trials may be designed to evaluate promising new products, pharmacologic agents (drugs or biologics), devices, clinical guidance, and/or emerging approaches and technologies. Proposed projects may range from small proof-of-concept trials (e.g., pilot, first-in-human, phase 0, phase 1, phase 1/2) to demonstrate the feasibility or inform the design of more advanced trials through large-scale trials to determine efficacy in relevant patient populations.

Awards:

Up to four awards with a combined total of \$9.6 million

Eligibility:

Unrestricted

Deadline:

08/05/2022

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338993>

2022 Spinal Cord Injury Research

Supports traumatic spinal cord injury (SCI) related research of exceptional scientific merit that has the potential to make a significant impact on improving the health and well-being of military Service Members, Veterans, and other individuals living with SCI. There are three separate funding opportunities associated with this announcement as follows:

- **Clinical Trial Awards** - supports the rapid implementation of clinical trials with the potential to have a significant impact on the treatment or management of SCI. Applications should articulate both the short- and long-term impact of the proposed research on individuals with SCI and/or their care-partners. Clinical trials may be designed to evaluate promising new products, pharmacologic agents (drugs or biologics), devices, clinical guidance, and/or emerging approaches and technologies. Proposed projects may range from small proof-of-concept trials (e.g., pilot, first in human, phase 0), to demonstrate feasibility or inform the design of more advanced trials, through large-scale trials to determine efficacy in relevant populations. *Up to four awards with a combined total of \$19.2 million.*
- **Investigator-Initiated Research Awards** - supports studies that have the potential to make an important contribution to SCI research, patient care, and/or quality of life. Projects may focus on any phase of research from basic through translational, though studies focused exclusively on target identification are discouraged. *Up to seven awards with a combined total of \$5.92 million may be made.*
- **Translational Research Awards** - supports translational research that will accelerate the movement of promising ideas in SCI research into clinical applications. Although not all-inclusive, some examples include demonstration studies of pharmaceuticals and medical devices in preclinical systems and/or clinical research on therapeutics, devices, or practice using human tissues or resources. *Up to five awards with a combined total of \$10.3 million may be made.*

Awards:

Multiple awards of various amounts

Eligibility:

Unrestricted domestically

Deadline:

09/02/2022

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338967>, <https://www.grants.gov/web/grants/view-opportunity.html?oppld=338968>, <https://www.grants.gov/web/grants/view-opportunity.html?oppld=338987>

Bio-inspired Restoration of Aged Concrete Edifices (BRACE)

Supports research projects to develop bio-inspired approaches that 1) penetrate deep into aged concrete to form a healing “vasculature” for persistent damage repair, and 2) combine with new concrete to increase the durability of runway patch repairs. To achieve these goals,

BRACE performers will engineer and operationalize vascularizing agents for both long-term (e.g., steel-reinforced marine or buried infrastructure) and rapid (e.g., expeditionary airfield) use cases.

Awards:

Multiple awards of negotiable amounts

Eligibility:

Unrestricted

Deadline:

06/17/2022

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338966>

Department of Energy

2022 Artificial Intelligence Research for High Energy Physics

Supports research into and development of computational systems that take action to achieve a goal as Artificial Intelligence (AI) research and may include Machine Learning (ML) techniques as appropriate. The program explicitly encourages applications from non-traditional High Energy Physics (HEP) institutions and researchers that may broaden the participation in HEP research and the AI sub-field.

Awards:

Up to 25 awards with a combined total of \$10 million

Eligibility:

Unrestricted

Deadline:

05/24/2022

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338843>

Urban Integrated Field Labs (IFL)

Supports fundamental systems level research aimed at identifying the foundational principles of dynamic physical, biogeochemical, and human processes and interactions and advancing fundamental understanding of the predictability of the climate and broader Earth system. Specifically, projects must focus on urban regions (densely populated areas, encompassing interdependent environmental, ecological, infrastructure, and human components). Urban regions of interest for this program are in climate-sensitive locations, and are highly heterogeneous, i.e. having uneven distribution of physical landforms and vegetation, environmental processes, the built environment and infrastructure, population density, and socioeconomic clustering in the urban landscape, particularly when that heterogeneity relates to impacts on disadvantaged communities.

The Urban IFLs will necessarily involve diverse scientific disciplines to develop comprehensive projects including field observations, data assimilation, modeling, and model-data fusion, to inform equitable solutions based on state-of-the-art uncertainty quantification and data analytics. Applications must be multi-institutional and focus on the development of a single IFL.

Awards:

Multiple awards with a combined total of \$85 million

Eligibility:

Unrestricted domestically

Deadline:

06/16/2022

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338839>

Department of Health and Human Services

Avenir Award Program for Chemistry and Pharmacology of Substance Use Disorders

Supports early stage investigators proposing highly innovative research in the area of chemistry and pharmacology of substance use disorders and addiction. The award specifically supports researchers in an early stage of their career who may lack the preliminary data required for an R01 grant, but who propose high impact research and who show promise of being tomorrow's leaders in the field.

Awards:

Up to seven awards with a combined total of \$3 million

Eligibility:

Unrestricted domestically

Deadline:

08/11/2022

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-23-014.html>

BRAIN Initiative: Integration and Analysis of BRAIN Initiative Data

Supports R01 research projects to develop informatics tools for analyzing, visualizing, and integrating data related to the BRAIN Initiative or to enhance the understanding of the brain. Projects may include modifying existing analysis and visualization tools to deal with BRAIN Initiative data and integrating different types of BRAIN Initiative datasets. Proposing the development of new tools to deal with BRAIN Initiative data is also permitted. The tools must make use of relevant data standards and will be built so that they can be integrated into the data repositories, both of which are created in awards under the other funding announcements of the BRAIN initiative informatics program. The tools must be user-friendly

in accessing and analyzing data from appropriate data archives, and should analyze/visualize data without requiring users to download data.

Awards:

Up to seven awards with a combined total of \$4 million

Eligibility:

Unrestricted

Deadline:

06/10/2022

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-22-220.html>

Centers for the Patient Derived Xenograft (PDX) Development and Trial Centers Network

Supports collaborative, large-scale development and pre-clinical testing of targeted therapeutic agents in patient-derived models to advance the vision of cancer precision medicine. There are two separate funding opportunities associated with this announcement as follows:

- ***Development and Trial Centers (PDTCs)*** - supports research and model development focused solely on therapeutic development to prioritize the clinical testing of targeted agents in defined tumor subtypes and research and model development focused distinctly on the use of PDX models for cancer disparity-relevant studies. The PDTCs will be assisted by the PDXNet Data Commons and Coordinating Center (PDCCC) for network interactions and collaborations, bioinformatics, and participation in cross-PDXNet pilot projects. PDXNet, and PDTCs in particular, will be required to collaborate closely with the NCI Patient-Derived Models Repository (PDMR) at the Frederick National Laboratory for Cancer Research (FNLCR). PDTCs will be required to include in their research well-characterized PDX models and optimized standard procedures available from PDMR. *Up to five awards with a combined total of \$6.25 million may be made.*
- ***Data Commons and Coordinating Center (PDCCC)*** - serves as the coordinating and data analysis center of the PDXNet. It is expected that the outcomes of PDXNet research will be particularly important for the prioritization of combinations of agents in the portfolio of NCI Investigational New Drugs (NCI-IND agents), which are evaluated clinically in the NCI's Experimental Therapeutic Clinical Trials Network (ETCTN). *One award of up to \$650,000 may be made.*

Awards:

Multiple awards of various amounts

Eligibility:

Unrestricted domestically

Deadline:

11/01/2022

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-22-012.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-22-013.html>

Development of Informatics Technologies for Cancer Research (ITCR)

Supports investigator-initiated, research-driven informatics technology development spanning all aspects of cancer research. There are four separate funding opportunities associated with this announcement as follows:

- **Development of Innovative Informatics Methods and Algorithms** - supports exploratory/developmental research grant applications (R21) for innovative informatics methods and algorithms to improve the acquisition, analysis, visualization, or interpretation of data across the cancer research continuum including cancer biology, cancer treatment and diagnosis, early cancer detection, risk assessment and prevention, cancer control and epidemiology, and/or cancer health disparities. *Up to five awards with a combined total of \$1.02 million may be made.*
- **Early-Stage Development of Informatics Technologies** - supports the development of enabling informatics technologies, specifically focused on early-stage development from prototyping to hardening and adaptation. Early-stage development is defined as the initial tool development or the significant modification of existing tools for new applications. *Up to six awards with a combined total of \$2.25 million may be made.*
- **Advanced Development of Informatics Technologies** - supports advanced development and enhancement of emerging informatics technologies, specifically focused on emerging informatics technology, defined as one that has passed the initial prototyping and pilot development stage, has demonstrated potential to have a significant and broader impact, has compelling reasons for further improvement and enhancement, and has not been widely adopted in the cancer research field. *Four awards with a combined total of \$3.6 million may be made.*
- **Sustained Support for Informatics Technologies** - supports the continued development and sustainment of high value informatics research resources, specifically focused on sustaining operations and improving the user experience and availability of existing, widely-adopted informatics tools and resources. *One award of up to \$1.13 million may be made.*

Awards:

Multiple awards of various amounts

Eligibility:

Unrestricted

Deadline:

06/14/2022

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-22-021.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-22-022.html>

[022.html](https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-22-022.html), <https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-22-023.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-22-024.html>

Focused Technology R&D

Supports R21 and R01 research projects that focus solely on the development of technologies with the potential to enable the acquisition of biomedical knowledge. Projects should be justified in terms of technical innovation and utility of such technical innovation for impacting future biomedical research. Projects should significantly advance the current state of the art and be sufficiently characterized for application in addressing a broad range of biomedical research questions. These outcomes may include, but are not limited to:

1. Laboratory instruments and other devices;
2. Algorithms and software;
3. Chemical reagents and processes; and
4. Biological molecules or systems that have been modified by human intervention to become research tools.

The R21 awards support proof of concept, high-risk and potentially high-reward studies for feasibility and exploratory technology development, while the R01 awards support the development of technologies with demonstrated proof-of-concept that have remaining significant technical challenges to full implementation and broad utility.

Awards:

Multiple awards of negotiable amounts

Eligibility:

Unrestricted domestically

Deadline:

06/05/2022

Links:

<https://grants.nih.gov/grants/guide/pa-files/PA-22-126.html>, <https://grants.nih.gov/grants/guide/pa-files/PA-22-127.html>

Prospective Observational Comparative Effectiveness Research in Clinical Neurosciences

Supports investigator-initiated prospective observational comparative effectiveness research (CER) to the National Institute of Neurological Disorders and Stroke (NINDS). Studies must address questions within the mission and research interests of the NINDS and may evaluate preventive strategies, diagnostic approaches, or interventions including drugs, biologics, and devices, or surgical, behavioral, and rehabilitation therapies. NINDS is particularly interested in pragmatic study designs that utilize a cost-effective means of prospectively collecting observational data important to current clinical practice.

Awards:

Multiple awards of negotiable amounts

Eligibility:

Unrestricted

Deadline:

06/17/2022

Links:

<https://grants.nih.gov/grants/guide/pa-files/PA-22-076.html>

Understanding and Addressing Misinformation among Populations that Experience Health Disparities

Supports R01 research that seeks to understand the underlying mechanisms and test interventions to address and mitigate the impact of health-related misinformation and disinformation on health disparities and the populations that experience health disparities. Projects should include a focus on examining how misinformation and disinformation operate within one or more [NIH designated populations](#) that experience health disparities in the US and US Territories (Black or African American, Hispanic or Latino, American Indian and Alaska Native, Asian, or Native Hawaiian and Pacific Islander persons, socioeconomically disadvantaged populations, underserved rural populations, and sexual and gender minority groups).

Awards:

Three awards with a combined total of \$2 million

Eligibility:

Unrestricted domestically

Deadline:

05/31/2022

Links:

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

Understanding Suicide Risk and Protective Factors among Black Youth

Supports R01 and R21 research projects to advance translational research to better understand factors that confer risk and resilience for suicide among Black youth. This program encourages research that is designed to identify neurobiological, behavioral, social, and structural/systemic mechanisms underlying risk and protective factors for suicide among Black youth, with consideration for identification of novel targets for future development of prevention and intervention efforts.

Awards:

Up to four awards with a combined total of \$2 million

Eligibility:

Unrestricted domestically

Deadline:

10/19/2022

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-22-140.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-22-141.html>

NASA

ROSES 2022: Economic, Social, and Policy Analyses of Orbital Debris and Space Sustainability

Supports research to evaluate the economic, social, and political elements of orbital debris and space sustainability, a strategic NASA and/or United States Government approach to orbital debris, and international space sustainability efforts. Preference will be given to teams that feature a strong interdisciplinary research and analysis approach or interdisciplinary teams that feature expertise in both social sciences (economics, econometrics, policy analysis) and physical sciences (physics, engineering).

Awards:

Up to five awards with a combined total of \$100,000

Eligibility:

Please see the following link for detailed eligibility information.

Deadline:

06/17/2022

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338969>

National Science Foundation

Spectrum Innovation Initiative: National Radio Dynamic Zones

Supports interdisciplinary research that seeks to foster collaboration among spectrum sharing researchers; domain experts with knowledge of specific applications, scientific activities, or instruments; site or mission experts who understand the operations of specific facilities or systems; spectrum regulatory specialists; and others. There are two types of projects included in the program as follows:

1. **Research Studies** - traditional grants for the investigation of spectrum sharing solutions and risk analysis techniques, or for investigation of applications and sites for radio dynamic zone field trials; and
2. **Engineering and Execution Lead awards** - cooperative agreements for work to mature results of the research studies into robust implementations and to lead the planned extended field trials.

Awards:

Up to 12 awards with a combined total of \$10 million

Eligibility:

Restricted to domestic institutions of higher education, and non-academic nonprofits typically associated with educational or research activities

Deadline:

06/20/2022

Links:

<https://www.nsf.gov/pubs/2022/nsf22579/nsf22579.htm>

New Foundation R&D Funding Opportunities

American Speech-Language-Hearing Foundation

Researcher-Practitioner Collaboration Grants

Supports partnerships between academic or organizational researchers and clinical practitioners to conduct collaborative studies that will be conducted in practice settings and are designed to enhance evidence for improving communication sciences and disorders (CSD) services. Studies must address a clinical problem/question that has direct application and is compatible to practice. This grant is designed to support preliminary research that will lead to a larger-scale study. The research question may originate with the researcher or the practitioner, but be of substantial interest to both in their mutual areas of expertise. The collaborative effort is central to this unique funding opportunity.

Awards:

Up to six awards of up to \$35,000 each

Eligibility:

Please see the following link for detailed eligibility information.

Deadline:

04/20/2022

Links:

<https://www.ashfoundation.org/apply/researcher-practitioner-collaboration-grant/>

Angelman Syndrome Foundation

Research Grants

Supports research projects to advance the awareness and treatment of Angelman syndrome (AS). The foundation seeks research in the following priority topics:

1. studying or correcting the heterozygous effect of non-UBE3A genes in deletion;
2. studying the potential results of increasing UBE3A after therapies or for some subtypes of AS;
3. studying delivery of therapies and potential for improvement; and
4. symptomatic therapies that impact the daily life of people with Angelman syndrome and their families.

Proposals that do not address these topics are still welcome and will be given full consideration.

Awards:

Multiple awards of up to \$100,000 each

Eligibility:

Please see the following link for detailed eligibility information.

Deadline:

04/15/2022

Links:

<https://www.angelman.org/as-research/call-for-proposals/>

Burroughs Wellcome Fund

Climate Change and Human Health Seed Grants

Supports the growth of new connections between scholars working in largely disconnected fields who could together change the course of climate change's impact on human health. Specifically, the program is interested in activities that build connections between basic/early biomedical scientific approaches and ecological, environmental, geological, geographic, and planetary-scale thinking, as well as population-focused fields including epidemiology, public health, and demography, economics, and urban planning. Also of interest is work piloting new approaches or new interactions toward reducing the impact of health-centered activities, for example, developing more sustainable systems for health care, care delivery, and biomedical research systems. Another area of interest is preparation for the impacts of extreme weather and other crises that can drive large-scale disruptions that immediately impact human health and healthcare delivery.

Awards:

Multiple awards of up to \$50,000 each

Eligibility:

Restricted to domestic institutions of higher education and nonprofits

Deadline:

04/11/2022

Links:

<https://www.bwfund.org/funding-opportunities/climate-change-and-human-health/climate-change-and-human-health-seed-grants/faq/>

Chan Zuckerberg Initiative

Essential Open Source Software for Science (Cycle 5)

Supports open source software projects that are essential to biomedical research. The goal of the program is to support software maintenance, growth, development, and community engagement for these critical tools. The program seeks projects in the following two tracks:

1. **Domain-specific Software** for analyzing, visualizing, and otherwise working with the specific data types that arise in biomedical science. Software will be considered out of scope if it primarily serves domains outside biomedical science without strong evidence of adoption in biomedicine; and
2. **Foundational Tools and Infrastructure** that enable a wide variety of downstream software across several domains of science and computational research. While foundational tools will be considered in scope for this program, they must have demonstrated impact on some area(s) of biomedical research.

Letters of Intent are due by April 19.

Awards:

Multiple awards of up to \$400,000 each

Eligibility:

Unrestricted domestically

Deadline:

04/19/2022

Links:

[https://chanzuckerberg.com/rfa/essential-open-source-software-for-science/](https://chan Zuckerberg.com/rfa/essential-open-source-software-for-science/)

T.E.A.L.

2022 Ovarian Cancer Medical Research Program

The Tell Every Amazing Lady About Ovarian Cancer Louisa M. McGregor Ovarian Cancer Foundation (T.E.A.L.) supports ovarian cancer research studies that are aligned with T.E.A.L.'s mission, which is to offer women's health and wellness services (including public awareness and education of the signs, symptoms, and risk factors of ovarian cancer), provide support to those impacted by the disease, and raise funds for research in order to find a screening test and a cure.

Awards:

Multiple awards of up to \$100,000 each

Eligibility:

Restricted to researchers at domestic educational and nonprofit institutions

Deadline:

05/31/2022

Links:

<https://tellevamazinglady.org/programs/medical-research/>

Terms and Conditions for redistribution or republication of the *SSTI Funding Supplement*

Preparation of the *SSTI Funding Supplement* is possible only through the financial support of dues-paying SSTI member organizations. Use of the *SSTI Funding Supplement* is subject to the following terms and conditions:

- Only the primary member contact, or their SSTI-approved designee, may redistribute this newsletter and/or its content and under no circumstances may the *SSTI Funding Supplement* be placed on a website or database accessible to the general public.
- Any redistribution must be limited to the SSTI member organization's staff, faculty, membership, partner organizations, and client companies.
- All redistributions must include fundingsupplement@ssti.org in the distribution list, give credit to SSTI (including a link to <https://ssti.org>), and include this Terms and Conditions statement.
- Those receiving a redistributed version of the *SSTI Funding Supplement* may not forward those emails to others or make them available to the public.
- With prior permission from SSTI, only the primary member contact, or their SSTI-approved designee, may post back issues of the *SSTI Funding Supplement* on internal and password-protected sites only.

If you have any questions about these terms, to request approval of a primary contact's designee, or to discuss an alternative licensing agreement, please contact Colin Edwards at fundingsupplement@ssti.org.