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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 (November 8)

New Federal R&D Funding Opportunities

Department of Defense

DARPA Strategic Technology Office broad agency announcement

DARPA's Strategic Technology Office (STO) is seeking innovative ideas and disruptive technologies that provide the U.S. military and national security leaders trusted, disruptive capabilities to win in all physical domains (Air, Space, Sea, and Land) and across the spectrum of competition, from deterrence to high-end peer combat. Proposals should address research topics not covered in by ongoing STO programs or other defense solicitations. Dozens of topical areas of interest are listed in the announcement. STO will develop and deliver solutions at a speed and scale to be operationally relevant in a relatively short time, just a few years, from the initiation of the project to proof of concept. Short-duration exploratory projects, such as analytical studies or proof of concept experiments, to inform new program ideas will be given priority.

Awards:

Multiple awards are anticipated.

Eligibility:

Unrestricted

Deadline:

10/31/2023

AwardsID(s):

HR001123S0003

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=344303>

Protection of deployed military personnel from medically relevant pests

Through the Deployed War Fighter Protection Research Program, the Armed Forces Pest Management Board invites pre-proposals for the for original, innovative research designed to develop new interventions for protection of deployed military personnel from medically relevant pests, including arthropod vectors of disease pathogens. Diseases of significant concern include Lyme disease, malaria, dengue virus and other arboviruses. The program supports development of new:

1. toxicants or the adaptation of existing toxicants to medically relevant pests;
2. insecticide application techniques;
3. personal protection tools that prevent human-vector contact;
4. decision support tools and
5. surveillance tools that focus on improving vector control outcomes.

The research should support the development of new insecticides, improved formulations of existing insecticides for vector control, new technology or enhanced modalities of personal protection from biting arthropods, or improved efficacy and sustainability of equipment for application of pesticides in a military operational environment.

Awards:

Five three-year awards from a pool of \$4.5 million; each award limited to \$900,000.

Eligibility:

Unrestricted

Deadline:

12/08/2022

AwardsID(s):

W911SR-22-S-DWFP

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=344377>

Young Faculty Award

DARPA invites applications for the Young Faculty Award to identify and engage rising stars in junior research positions in academia and equivalent positions at non-profit research institutions, particularly those without prior DARPA funding, to expose them to Department of Defense (DoD) needs and DARPA's mission to create and prevent technological surprise. Applicants should propose innovative new research that enables transformative DoD capabilities.

Awards:

Multiple grants of \$500,000 are anticipated.

Eligibility:

Researchers employed at U.S. institutions either within 12 months having earned their Ph.D., tenure track faculty, or within three years of applying for tenure.

Deadline:

02/07/2023

AwardsID(s):

DARPA-RA-23-01

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=344373>

Department of Energy

Environmental System Science

DOE invites proposals for the Environmental System Science (ESS) research program. The ESS goal is to advance an integrated, robust, and scale-aware predictive understanding of terrestrial systems and their interdependent microbial, biogeochemical, ecological, hydrological, and physical processes. To support this goal, the program uses a systems approach to develop an integrative framework to elucidate the complex processes and controls on the structure, function, feedbacks, and dynamics of terrestrial systems, that span from molecular to global scales and extend from the bedrock through the soil, rhizosphere, and vegetation to the atmosphere. Three research areas are priorities for the current funding opportunity:

1. improved understanding of hot spots and hot moments of biogeochemical cycling in terrestrial-aquatic interfaces;
2. investigations of cold-region ecosystem and watershed process responses to changing cold-season climate drivers; and
3. synthesis studies using existing data that address testing of ESS-relevant hypotheses and development of transferable insights across ecosystems, watersheds, and regions.

Awards:

Ten million is anticipated to support 10-14 awards lasting up to three years each.

Eligibility:

Unrestricted, excluding 501(c)(4) organizations.

Deadline:

02/23/2023

AwardsID(s):

DE-FOA-0002849

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=344302>

Department of Health and Human Services

Building Research Capacity in Global Tobacco Product Regulation Program

The Food and Drug Administration (FDA) announces its intention to accept and consider a single source application for award to the World Health Organization for the Building Research Capacity in Global Tobacco Product Regulation Program. The purpose of the Program is to identify, support, develop, conduct, and coordinate research efforts relating to tobacco control laws and rules in foreign countries that will directly inform and support FDA's exercise of its authority to regulate the manufacture, distribution, marketing and sale of tobacco products in the United States.

Awards:

One award for \$400,000

Eligibility:

Unrestricted domestically

Deadline:

01/16/2023

AwardsID(s):

RFA-FD-23-003

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-FD-23-003.html>

Functional Validation and/or Characterization of Genes or Variants Implicated in Substance Use Disorders

The National Institute on Drug Abuse is supporting projects that functionally validate and/or characterize genes or variants involved in substance use disorder-relevant phenotypes. The Successful project will propose to either:

1. Orthogonally validate a set of candidate addiction-relevant genes, variants, or transcripts to identify those most likely to be involved in specific addiction-relevant processes; or
2. Functionally characterize the mechanistic role (e.g. behavioral, molecular, and/or neurobiological) of one or more orthogonally-validated addiction-relevant genes, genetic or epigenetic variants, or transcripts in living organisms or in human organoid systems.

This opportunity will utilize a phased R21/R33 mechanism beginning with a high risk/high payoff milestone-driven R21 phase. No less than two months prior to completion of the R21 phase, awardees must submit an R21 progress report describing in detail progress towards completion of the R21 Go/No Go criteria and/or quantitative milestones and may be asked to include other information necessary for successful evaluation of the R21 phase of the project.

Awards:

Multiple Awards are anticipated.

Eligibility:

Unrestricted

Deadline:

03/02/2023

AwardsID(s):

PAR-23-041

Links:

<https://grants.nih.gov/grants/guide/pa-files/PAR-23-041.html>

HEAL Initiative Integrated Basic and Clinical Team-based Research in Pain

Multiple NIH Institutes are offering a research opportunity designed to support integrated efforts of three or more (up to six) PDs/PIs to pursue bold, impactful, and challenging research in basic and clinical pain domains to understand the biology of specific human pain conditions as well as pain associated with various diseases/disorders, including mechanistic underpinning of heterogeneity and stratification of patients with specific pain conditions and co-morbidities. Examples of outcomes for individual projects include, but not limited to, establishing a basis for future clinical pain management approaches, establishing new domains for basic research that has been informed by clinical data/experience, and establishing knowledgebase and/or platforms for the discovery and development of condition & evidence-based therapeutics and/or devices for the treatment of pain in humans.

Awards:

Multiple awards are anticipated

Eligibility:

Unrestricted

Deadline:

02/14/2023

AwardsID(s):

RFA-NS-22-069

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-22-069.html>

Integrated Preclinical/Clinical AIDS Vaccine Development Program

The National Institute of Allergy and Infectious Diseases is soliciting applications to support translation of advanced HIV-1 vaccine candidates from pre-clinical studies through different phases of process and product development, Current Good Manufacturing Practice (CGMP) manufacturing, and regulatory filing to the point of clinical testing. This particular funding announcement will support technology transfer, preclinical immunogenicity and optimization studies, process development, analytical assay development, qualification, validation, testing, small scale pilot or engineering runs, CGMP manufacture in partnership with Pharma/Biotech/Contract Manufacturing Organizations, quality assurance/quality control oversight, fill-finish activities, product release and storage, generation of reference standard, drug substance and drug product stability testing programs, Investigational New Drug-enabling studies, and regulatory submission preparation. Multi-disciplinary consortia are preferred.

Awards:

1-2 awards from a pool of \$4 million

Eligibility:

Unrestricted

Deadline:

02/15/2023

AwardsID(s):

PAR-23-033

Links:

<https://grants.nih.gov/grants/guide/pa-files/PAR-23-033.html>

John Lewis NIMHD Research Endowment Program

The National Center on Minority Health and Health Disparities invites applications for the John Lewis NIMHD Research Endowment to build capacity and research infrastructure and to facilitate minority health and health disparities research at eligible institutions, but not to directly support the research projects itself. NIMHD Research Endowment grants are made to create a permanent institutional endowment fund to support institutional resources and research capacity building. Specific strategic objectives include:

1. improving the institutional physical infrastructure and research equipment acquisition;
2. developing research-enabling technical expertise;
3. expansion of academic programs; and
4. recruitment of individuals from groups underrepresented in the scientific workforce as potential candidates for open faculty positions.

Awards:

Six awards are anticipated from a pool of \$12 million.

Eligibility:

Public and private higher education institutions

Deadline:

01/17/2023

AwardsID(s):

RFA-MD-22-010

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-MD-22-010.html>

Pediatric Critical Care and Trauma Scientist Development Program

The Eunice Kennedy Shriver National Institute of Child Health and Human Development invites applications to support a national program of mentored career development and training in research for junior faculty in pediatric critical care medicine and pediatric trauma surgery. This funding opportunity allows appointment of Scholars (K12)] proposing to serve as the lead investigator of an independent clinical trial; or proposing a separate ancillary

clinical trial; or proposing to gain research experience in a clinical trial led by another investigator, as part of their research and career development.

Awards:

1 award of \$847,800

Eligibility:

Unrestricted Domestically

Deadline:

03/29/2023

AwardsID(s):

RFA-HD-24-001

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-HD-24-001.html>

Precompetitive Collaboration on Liquid Biopsy for Early Cancer Assessment: Liquid Biopsy Research Laboratories

The National Cancer Institute is soliciting applications separately for two different components of the Precompetitive Collaboration on Liquid Biopsy for Early-Cancer Assessment Consortium. The first, using solicitation RFA-CA-23-018, will support six new and renewal **Liquid Biopsy Research Laboratories (LBRLs)** to conduct research on the development of liquid biopsy technologies, assays and/or methods for the capture and analysis of tumor associated cells, DNA, RNA, or exosomes in body fluids of individuals with early-stage cancer or at high risk of developing the disease. Precompetitive alliances between academic and industry research teams must be integral to the LBRLs for more effective harmonization and successful validation of the developed liquid biopsy technologies, methods, and assays. Each cooperative agreement award will be for up to \$1 million.

The second component of the consortium is a single **Data Management and Coordination Unit**, which will be responsible for the following activities: 1) Consortium Coordination of the LBRLs above; 2) Statistical and Computational Analysis Support; and 3) Data Management and Protocol Development. The cooperative agreement will be for no greater than \$700,000. Interested parties should use the link for Opportunity RFA-CA-23-019 below.

Awards:

Seven awards are anticipated across both solicitations.

Eligibility:

Unrestricted domestically.

Deadline:

01/10/2023

AwardsID(s):

RFA-CA-23-018, RFA-CA-23-019

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-23-018.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-23-019.html>

Understanding Adult Immunization Quality Improvement Approaches

The Immunization Services Division and National Center for Immunization and Respiratory Diseases within the Centers for Disease Control and Prevention invites applications to support research to identify and evaluate the effectiveness of quality improvement interventions specifically targeting adult immunization providers and to understand and develop approaches for immunization programs to support these efforts. Of particular priority are approaches improving adult immunization, particularly among the priority populations established by NCIRD which include: 1) racial and ethnic minority populations; 2) pregnant persons; 3) rural communities; and 4) adults with chronic medical conditions.

Awards:

A single, three-year award of \$1.5 million.

Eligibility:

Unrestricted domestically.

Deadline:

01/13/2023

AwardsID(s):

RFA-IP-23-002

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=343650>

Department of Homeland Security

MSI Scientific Leadership Awards

The DHS Office of University Programs invites applications from Minority Serving Institutions to to learn techniques, build capacity, and connect with various organizations conducting business in or directly supporting Homeland Security (HS) mission areas. Awarded institutions will:

1. Provide opportunities for students and faculty to engage in research projects addressing Homeland Security (HS) research areas.
2. Consistently engage with DHS S&T and the DHS Centers of Excellence (COEs) to ensure that the program is effectively building the next generation workforce that will support the Homeland Security Enterprise (HSE).
3. Develop innovative programs to experiential learning activities with government, academia, and the private sector for students studying science, technology, engineering, and mathematics (STEM) and faculty.
4. Engage with community colleges to identify the academic strengths of their local MSI communities and promote pathways toward STEM degree completion and transition from 2-year to 4-year institutions.

Awards:

Nine phased awards, each up to \$1 million.

Eligibility:

Public and private Minority Serving Institutions

Deadline:

01/04/2023

AwardsID(s):

DHS-23-ST-062-001

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=344370>

National Science Foundation

Paleoclimate

The NSF Division of the Atmospheric and Geospace Science invites proposals for the paleoclimate programs to: 1) provide a baseline for present climate variability and future climate trends, and 2) improve the understanding of the physical, chemical, and biological processes that influence climate variability and trends over the long-term. Research topics include observational and modeling studies of past climate variability and its drivers and studies that develop new paleoclimate proxies and records. Competitive proposals will address specific aspects of scientific uncertainty for their proposed research. Proposals are accepted at any time.

Awards:

Multiple awards are anticipated.

Eligibility:

Unrestricted

AwardsID(s):

PD-22-1530

Links:

<https://beta.nsf.gov/funding/opportunities/paleoclimate>

Partnerships in Astronomy & Astrophysics Research and Education

NSF invites proposals to improve the quality and environment of astronomy and astrophysics research and education by stimulating the development of formal, long-term partnerships that provide authentic pathways into the research enterprise and broaden the participation of individuals from groups underrepresented in astronomy. Partnerships must substantially involve institutions seeking to create opportunities for student and faculty research that will increase the recruitment, retention, and success of these individuals. It is expected that the partnerships will build or strengthen research capacity, as well as foster a diverse, inclusive, and equitable environment for astronomy and astrophysics research and education at the partnering institutions.

Awards:

5 awards from a pool of \$1.5 million.

Eligibility:

Unrestricted.

Deadline:

02/15/2022

AwardsID(s):

NSF 23-513

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=344400>

New Foundation R&D Funding Opportunities

American Lung Association

Allergic Respiratory Diseases Research

The American Lung Association and the American Academy of Allergy, Asthma & Immunology invites applications for the Allergic Respiratory Diseases Research Award. The joint effort is intended to encourage and support applicants holding a primary faculty appointment in a Clinical Allergy and Immunology Division conducting research into advancing the understanding of the allergic respiratory disease. One of the goals of this collaboration is to fund researchers at important crossroads of their careers. The grant aims to increase research in academic allergy and immunology divisions in the effort to benefit patients. Applicants must hold a doctoral degree, be in a clinical Allergy and Immunology Division (or Clinical Immunology Division), be undertaking a project related to allergic respiratory disease, and have completed training.

Awards:

\$75,000/year for up to two years

Eligibility:

U.S. citizens or legal foreign nationals employed at U.S. research institutions.

Deadline:

12/15/2022

Links:

<https://philanthropynewsdigest.org/rfps/rfp14405-american-lung-association-invites-applications-for-allergic-respiratory-diseases-research-award>

McKnight Foundation

Neurobiology of Brain Disorders Award

The foundation invites applications for the McKnight Neurobiology of Brain Disorders Award to assist scientists working to apply the knowledge achieved through basic research to human brain disorders, and who demonstrate a commitment to equitable and inclusive lab environments. Of particular interest are proposals that address the biological mechanisms of neurological and psychiatric disorders. This includes proposals that provide mechanistic insights into neurological functions at the synaptic, cellular, molecular, genetic or behavioral

level across different species, including humans and vertebrate and invertebrate model organisms. A new additional area of interest is the contribution of the environment to brain disorders.

Awards:

Up to 4 awards lasting up to three years and funded up to \$100,000 annually.

Eligibility:

Independent investigators at not-for-profit research institutions in the United States, and must hold a faculty position at the rank of Assistant Professor, Associate Professor, or Professor.

Deadline:

12/12/2022

AwardsID(s):

NBD Award

Links:

<https://www.mcknight.org/news-ideas/deadline-2023-neurobiology-of-brain-disorders-award/>

Milken Institute Center for Strategic Philanthropy

Ann Theodore Foundation Breakthrough Sarcoidosis Initiative

The Milken Institute Center for Strategic Philanthropy, in partnership with the Ann Theodore Foundation, has announced a request for proposals for the Ann Theodore Foundation Breakthrough Sarcoidosis Initiative. An immune dysregulation condition, sarcoidosis is hallmarked by clusters of immune cells, known as granulomas, forming in various organs throughout the body. It is often observed in the lungs, but virtually any organ can be impacted. Funding will be awarded to support projects that seek to increase our understanding of sarcoidosis's genetic, molecular, and immunological aspects. The initiative is open to proposals investigating sarcoidosis in any organ system, but studies examining organ systems outside the lungs and heart will be prioritized.

Awards:

Two-year awards for individual research for up to \$460,000, including indirect costs. Interdisciplinary teams may receive up to \$575,000.

Eligibility:

U.S. public/private nonprofit academic or research institutions.

Deadline:

01/10/2023

Links:

<https://philanthropynewsdigest.org/rfps/rfp14417-milken-institute-center-for-strategic-philanthropy-issues-rfp-for-ann-theodore-foundation-breakthrough-sarcoidosis-initiative>

Rita Allen Foundation

Chronic pain research

The foundation seeks applications for a special award for early-career leaders in basic pain research whose work holds high potential for uncovering new pathways to improve the treatment of chronic pain. Proposed research projects should be directed toward investigating the molecular biology of pain, and/or basic science topics related to the development of new analgesics for the management of pain due to terminal illness. The entire award is made available to projects specifically chosen by the recipient; university overhead is not supported.

Awards:

Two grants or more in the amount of \$150,000 over three years.

Eligibility:

Faculty members who have completed their training and provided persuasive evidence of distinguished achievement or extraordinary promise in basic research in pain.

Deadline:

12/15/2022

Links:

<https://ritaallen.org/pain-scholars/>, <https://www.usasp.org/raf-award-in-pain>

Simons Foundation

Autism research - winter pilot awards

For its Autism Research Initiative, the Simons Foundation seeks proposals to provide early support for exploratory ideas, particularly those with novel hypotheses for autism. Appropriate projects for this mechanism include those considered higher risk with less assurance of ultimate impact, but with the potential for transformative results. In particular, the foundation encourages applications that propose research to link genetic or other ASD risk factors to molecular, cellular, circuit or behavioral mechanisms and set the stage for development of novel interventions. Investigators new to the field of autism are encouraged to apply.

Awards:

Pilot awards are limited to \$300,000 or less for periods up to two years.

Eligibility:

All applicants and key collaborators must hold a Ph.D., M.D. or equivalent degree and have a faculty position or the equivalent at a college, university, medical school or other research facility.

Deadline:

01/13/2023

Links:

https://www.sfari.org/grant/pilot-awards-request-for-applications/?mc_cid=be23fe0eaf

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