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 (April 5)

New Funding Opportunities for TBED

Department of Energy

RFI: Designing Equitable, Sustainable, and Effective Revolving Loan Fund Programs

The Office of Energy Efficiency and Renewable Energy (EERE) seeks information on promising, innovative, and best practices for designing revolving loan funds (RLFs). EERE is seeking to create program guidance that will assist States, as well as potentially other entities, in designing, managing, and improving RLFs. The goal is to collect information that will ultimately support creation of RLFs that effectively serve a wide array of borrowers with beneficial energy efficiency products and services and enable private sector capital to scale access to energy efficiency financing.

Awards:

No funding is associated with this announcement

Eligibility:

Unrestricted

Deadline:

05/06/2022

Links:

https://www.grants.gov/web/grants/view-opportunity.html?oppId=339053

MIT Solve

Inspire Awards for Women-led Small Businesses

MIT Solve and the Truist Foundation seeks to identify innovative nonprofit-driven solutions that provide support to grow, develop, and sustain racially diverse and/or women-led small businesses in the United States. The program supports bold solutions with transformational potential that span across a range of challenges faced by small business owners. Projects may focus on, but are not limited to, the following activities:

1. Connecting small business owners and key stakeholders such as investors, local policy makers, and mentors with the relevant experience to improve coordination, collaboration, and knowledge bases within the small business ecosystem;

2. Advocating for and shaping policy that supports small business owners and/or place-based efforts in their geographic areas, including increased access to resources, removal of structural barriers, and access to infrastructure (i.e., broadband);

3. Offering focused guidance/professional development for building specific functional skills for internal staff such as strategic planning, human resources, process improvement, and research and testing products/services;

4. Assisting with access to capital, capital campaigns, and/or financial education and information; and

5. Supporting and fostering growth to scale through comprehensive and relevant technical support assistance such as legal aid, fiscal management for sustainability, marketing, and procurement.

A cohort of seven finalists will be chosen to move to the finalist stage and participate in a capacity-building, wraparound support program that will include a comprehensive needs assessment to determine what resources and support are most appropriate to accelerate their impact.

Awards:
Seven awards with a combined cash prize pool of $575,000

Eligibility:
Restricted to domestic nonprofits

Deadline:
05/13/2022

Links:
https://solve.mit.edu/challenges/truist-foundation-inspire-awards#

National Science Foundation

Gen-4 Engineering Research Centers: Convergent Research and Innovation through Inclusive Partnerships and Workforce Development

Supports convergent research that will lead to strong societal impact. Each Engineering Research Center (ERC) has interacting foundational components that go beyond the research project, including engineering workforce development at all participant stages, diversity and

a culture of inclusion where all participants gain mutual benefit, and value creation within an innovation ecosystem that will outlast the lifetime of the ERC. The logical reasoning that links the proposed activities to the identified goals for each ERC should be clear.

Letters of Intent are due September 2.

Awards:

Up to six awards of a combined total of $156 million

Eligibility:

Restricted to domestic institutions of higher education

Deadline:

09/02/2022

Links:

https://www.nsf.gov/pubs/2022/nsf22580/nsf22580.htm

New Federal R&D Funding Opportunities

Department of Defense

2022 Peer Reviewed Cancer Research Program

Supports research of exceptional scientific merit that investigates cancer risks and knowledge gaps that may be relevant to active-duty Service Members, their families, other military beneficiaries, and the American public. There are five separate funding opportunities associated with this announcement as follows:

- ***Idea Awards*** - supports innovative, untested, high-risk/potentially high-reward concepts, theories, paradigms, and/or methods in cancer research that are relevant to active-duty Service Members, Veterans, other military beneficiaries, and the American public. Cancers or circumstances with cancer risk that may affect the Service Members' support system (military families) are of special importance. *Up to 35 awards of up to $400,000 each may be made.*

- ***Impact Awards*** - supports hypothesis-driven, high-impact research. The intent of the Impact Award mechanism is to fund mature research projects that specifically focus on critical scientific or clinical cancer issues, which have the potential to make a major near-term impact. *Up to 16 awards of up to $1 million each may be made.*

- ***Behavioral Health Science Awards*** - supports innovative research and high-reward studies that span the spectrum of behavioral health science, including quality of life, symptom management, resilience, neurocognitive deficits, and psychosocial issues related to cancer diagnosis, treatment, and survivorship. *Up to four awards with a combined total of $6.4 million may be made.*

- ***Convergent Science Cancer Consortium Development Awards*** - supports a convergent science infrastructure *and* research mechanism that provides support to create a Coordinating Center, to establish the necessary collaborations, and to demonstrate the utility of convergent science in cancer science through its application

in active research projects. *Up to three awards with a combined total of $12 million may be made.*

- **Translational Team Science Awards** - supports hypothesis-driven translational studies that are associated with ongoing or completed clinical trials. Projects should focus on research for the next-phase clinical trial or future clinical application. The program is intended to support advanced translational studies that are based on results from clinical investigations and to utilize information from the clinical trials for research that would then inform the clinic. *Up to nine awards with a combined total of $36 million may be made.*

The earliest Letters of Intent are due May 25.

Awards:

Multiple awards of variable amounts

Eligibility:

Unrestricted

Deadline:

05/25/2022

Links:

https://www.grants.gov/web/grants/view-opportunity.html?oppId=339085, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339069, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339071, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339068, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339070

2022 Prostate Cancer Research Program

Supports highly innovative and groundbreaking research, high-impact research with near-term clinical relevance, the next generation of prostate cancer investigators through mentored research, and resources that will facilitate translational research. There are six separate funding opportunities associated with this announcement as follows:

- **Health Disparity Research Awards** - supports promising research ideas that have high potential to make a significant impact in eliminating disparities in prostate cancer incidence, morbidity, mortality, and survivorship. *Up to six awards with a combined total of $7.2 million may be made.*
- **Data Science Awards** - supports research where quantitative and analytical approaches, processes, and/or systems are developed and/or used to obtain knowledge and insight from large and/or complex sets of prostate cancer data. It is expected that any tools or data sets generated by this award will be made available for public use. *Up to four awards with a combined total of $6.04 million may be made.*
- **Idea Development Awards** - supports new ideas that represent innovative approaches to prostate cancer research and have the potential to make an important

contribution to the PCRP Mission. *Up to 31 awards with a combined total of $44.64 million may be made.*

- **Exploration-Hypothesis Development Awards** - supports the exploration of highly innovative, untested, potentially high-gain concepts, theories, paradigms, and/or methods that address an important problem. Results of studies conducted through this award may provide the scientific premise upon which a new hypothesis can be based or initial proof-of-principle of an innovative hypothesis, laying the groundwork for future avenues of scientific investigation. *Up to 20 awards with a combined total of $3.2 million may be made.*

- **Early Investigator Research Awards** - supports prostate cancer-focused research opportunities for individuals in the early stages of their careers under the guidance of one or more designated mentors. This opportunity allows early-career investigators to develop a research project, investigate a problem or question in prostate cancer research, and further their intellectual development as prostate cancer researchers of the future. *Up to 21 awards with a combined total of $10.08 million may be made.*

- **Physician Research Awards** - supports a mentored research experience to prepare physicians with clinical duties and/or responsibilities for productive careers in prostate cancer research. The mentored physician is considered the Principal Investigator (PI) of the application. This award emphasizes equally the quality of the proposed research project and the career development of the PI, which should prepare physicians for careers in basic, population science, translational, or clinical prostate cancer research. *Up to six awards with a combined total of $7.2 million may be made.*

Please see the following links for individual program due dates and additional details.

Awards:

Multiple awards of variable amounts

Eligibility:

Unrestricted

Links:

https://www.grants.gov/web/grants/view-opportunity.html?oppId=339198, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339196, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339194, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339193, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339220, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339195

2022 Tuberous Sclerosis Complex Research Program

Supports innovative research focused on decreasing the clinical impact of tuberous sclerosis complex (TSC). There are three separate funding opportunities associated with this announcement as follows:

- ***Exploration–Hypothesis Development Awards*** - supports the initial exploration of innovative, high-risk, high-gain, and potentially groundbreaking concepts in the TSC research field. Studies are expected to generate preliminary data for future avenues of scientific investigation. *Up to six awards with a combined total of $1.44 million may be made.*
- ***Idea Development Awards*** - supports conceptually innovative research that could ultimately lead to critical discoveries in TSC research and/or improvements in patient care. Research projects should include a well-formulated, testable hypothesis based on strong preliminary data and scientific rationale. *Up to three awards with a combined total of $3.4 million may be made.*
- ***Clinical Translational Research Awards*** - supports studies that will move promising, well-founded preclinical and/or clinical research findings closer to clinical application, including diagnosis, prognosis, or treatment of TSC. *Two awards with a combined total of $3.2 million may be made.*

Pre-Proposals are due June 30.

Awards:

Multiple awards of variable amounts

Eligibility:

Unrestricted

Deadline:

06/30/2022

Links:

https://www.grants.gov/web/grants/view-opportunity.html?oppId=339042, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339043, https://www.grants.gov/web/grants/view-opportunity.html?oppId=339041

Military Health System Research

Supports rigorous health system research through collaborations that have the potential to innovate military and civilian health care. The program specifically seeks studies on factors that affect the access, economics/cost, quality, variation, and outcomes of military health care delivery. This includes how policies, social factors, financing systems, organizational structures and processes, health technologies, and behaviors influence military health care delivery to DoD beneficiaries (e.g., individual Service members, families, communities, and populations).

Awards:

Up to eight awards with a combined total of $10 million

Eligibility:

Unrestricted

Deadline:

09/30/2022

Links:

https://www.grants.gov/web/grants/view-opportunity.html?oppId=339110

Department of Health and Human Services

Enhancing HIV Reservoir Susceptibility to Elimination

Supports basic research to define cellular and molecular mechanisms within persistent HIV reservoir cells that promote survival and resistance to virus-induced and immune-mediated cell death, and to identify novel therapeutic targets that could sensitize HIV-infected cells to eradication strategies.

Awards:

Up to six awards with a combined total of $3.3 million

Eligibility:

Unrestricted

Deadline:

08/03/2022

Links:

https://grants.nih.gov/grants/guide/rfa-files/RFA-AI-22-025.html

Implementation Research to Reduce Noncommunicable Disease Burden in Low- and Middle-Income Countries (LMICs) and Tribal Nations During Critical Life Stages and Key Transition Periods

Supports innovative approaches to identifying, understanding, developing, and implementing strategies for overcoming barriers to the adoption, adaptation, integration, scale-up, and sustainability of evidence-based interventions, tools, policies, and guidelines. Studies to advance dissemination and implementation research methods and measures into application are also encouraged. Specifically, this program invites applications that propose interventions targeting critical life stages (e.g., infancy, childhood, adolescence, pregnancy, older adults) and key transitions between life stages to reduce health risk and/or enhance positive health and lifestyle behaviors.

Awards:

Multiple awards of negotiable amounts

Eligibility:

Unrestricted

Deadline:

07/27/2021

Links:

https://grants.nih.gov/grants/guide/pa-files/PAR-22-132.html

Innovation Award: Minority Health and Health Equity

Supports innovative research that will strengthen and advance minority health and health equity research. The program specifically seeks proposals that focus on advancing equity in clinical trials by supporting efforts to advance diversity in clinical trials, equitable data efforts by increasing data available on diverse groups including, but not limited to, ethnicity, race, age, disability and geography, and equity of voices by increasing understanding of diverse patient perspectives, preferences, and unmet needs.

Awards:

Up to six awards of up to $500,000 each

Eligibility:

Restricted to domestic non-governmental entities

Deadline:

06/06/2022

Links:

https://grants.nih.gov/grants/guide/rfa-files/RFA-FD-22-005.html

Leveraging Health Information Technology to Address and Reduce Health Care Disparities

Supports research that examines the impact of leveraging health information technology (health IT) to reduce disparities in access to and utilization of health care services, patient-clinician communication, and health outcomes for populations that experience health disparities in the United States.

Awards:

Multiple awards of negotiable amounts

Eligibility:

Unrestricted

Deadline:

06/05/2022

Links:

https://grants.nih.gov/grants/guide/pa-files/PAR-22-145.html

Outstanding Investigator Awards in Neurological Disorders and Stroke Research

Supports longer-term support, and increased freedom and flexibility to Program Directors (PDs)/Principal Investigators (PIs), to allow them to redirect their time away from the administrative burden of writing and managing multiple grant applications and towards engaging in the lab. The program affords investigators at most career stages the opportunity to advance their long-term research goals, rigorously explore exciting research opportunities, and mentor students and postdoctorates, which support and align with the mission of NINDS. This greater funding stability will provide eligible investigators increased security, allowing

them to undertake research projects that require a longer timeframe or to embark upon research that breaks new ground.

Awards:

Up to 25 awards with a combined total of $20 million

Eligibility:

Unrestricted domestically

Deadline:

07/14/2022

Links:

https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-22-038.html

RFI: Initiatives that Improve Research Training, Career Progression, or the Educational Environment in the Biomedical Research Enterprise

The National Institute of General Medical Sciences (NIGMS) seeks input from extramural community stakeholders, including trainees (e.g., undergraduate students, graduate students, postdoctoral scientists), biomedical faculty, and research education program participants (e.g., postbaccalaureates), regarding initiatives that improve research training, career progression, or the educational environment. NIGMS is particularly interested in hearing about trainee-initiated activities and directly from trainees in NIGMS-funded training programs. Input sought includes, but is not limited to, the following:

1. The ways in which NIGMS-supported research training, career progression, or the educational program(s) listed above have been beneficial;
2. How NIGMS-supported research training, career progression, or the educational program(s) listed above could be improved;
3. The ways in which trainees at your institution have worked to improve research training, career progression, or the educational environment;
4. Any areas of concern regarding the broader training environment and how NIH/NIGMS programs could help improve it; and
5. Recommendations for how best NIH/NIGMS can receive feedback on trainee experiences going forward.

Awards:

No funding is associated with this announcement

Eligibility:

Unrestricted

Deadline:

05/28/2022

Links:

https://grants.nih.gov/grants/guide/notice-files/NOT-GM-22-030.html

National Science Foundation

Cybersecurity Innovation for Cyberinfrastructure

Supports projects to develop, deploy, and integrate solutions that benefit the broader scientific community by securing science data, workflows, and infrastructure. The program recognizes the unique nature of modern, distributed, and rapid collaborative science and the breadth of security expertise, infrastructure and requirements among different practitioners, researchers, and scientific projects. The program seeks proposals in three following program areas:

1. ***Usable and Collaborative Security for Science (UCSS)*** - supports novel and applied security and usability research that facilitates scientific collaboration, encourages the adoption of security into the scientific workflow, and helps create a holistic, integrated security environment that spans the entire scientific cyberinfrastructure ecosystem;

2. ***Reference Scientific Security Datasets (RSSD)*** - supports projects that leverage instrumented cyberinfrastructure to capture scientific workflows and workloads as reference data artifacts that can help support reproducible security research, testing and evaluation; and

3. ***Transition to Cyberinfrastructure Resilience (TCR)*** - supports projects to improve the robustness and resilience of scientific cyberinfrastructure through testing, evaluation, hardening, validation, and technology transition of novel cybersecurity research.

Awards:
Up to 20 awards with a combined total of $11 million
Eligibility:
Restricted to domestic institutions of higher education and nonprofits
Deadline:
06/27/2022
Links:
https://www.nsf.gov/pubs/2022/nsf22581/nsf22581.htm

Dynamics, Control and Systems Diagnostics

Supports the fundamental science and engineering of dynamic systems to advance solutions to urgent societal problems. Such problems include mitigating the impacts of climate change; responding to epidemics, cyber-attacks, extreme weather, and other natural and man-made events; promoting efficient and equitable production and distribution of resources; developing resilient infrastructure; improving the experience of work and learning; and meeting the challenges of aging and illness. Recognizing that dynamic systems lie at the heart of current and emerging imperatives, the program invites proposals that match innovative research in dynamic systems with compelling applications.
Proposals are accepted on a rolling basis.
Awards:
Multiple awards of negotiable amounts
Eligibility:
Please see the following link for detailed eligibility information.

Links:

New SBIR/STTR Funding Opportunities

Department of Health and Human Services

Developing Regulated Therapeutic and Diagnostic Solutions for Patients Affected by Opioid and/or Stimulants use Disorders

Supports Phase I, Phase II, Fast-Track, and Direct to Phase II SBIR/STTR research projects, directed towards commercialization, for the development of novel, evidence-based, FDA-regulated medical products addressing the needs of patients suffering from opioid use disorders (OUD) and/or stimulant use disorders. Projects may fall within two scientific areas, namely: 1) pharmacotherapeutics (small molecules and biologics); and 2) medical therapeutic and diagnostic devices, including software as a medical device.

Awards:

Multiple awards of variable amounts

Eligibility:

Restricted to domestic small business concerns

Deadline:

08/15/2022

Links:

New Foundation R&D Funding Opportunities

Amazon

AWS Imagine Grants

Supports nonprofit organizations in prioritizing technology as a mission-critical component of their projects. The program is currently seeking proposals for pilot projects, proofs of concept, or existing programs that utilize technology in a new or expanded way to solve the world's most pressing issues. There are two award categories as follows:

1. ***Go Further, Faster Award*** - supports highly innovative projects that leverage the cloud. These projects will have the potential to produce scaled, repeatable solutions and may impact an entire industry or field. They will be force multipliers for organizations and will include the application of and/or seek integrations with advanced cloud services, such as artificial intelligence (AI), machine learning (ML), high performance computing, Internet of Things (IoT), and more.

2. ***Momentum to Modernize Award*** - supports projects to transform and enhance the nonprofit's core mission operations with technology by providing funding for these transformational infrastructure projects, alongside AWS Promotional Credit and implementation support. Projects may include application migration and

optimization, net-new application development, data warehouse projects, infrastructure expansion, and more.

Awards:

Multiple awards of up to $150,000 each

Eligibility:

Restricted to domestic nonprofits

Deadline:

06/01/2022

Links:

https://aws.amazon.com/government-education/nonprofits/aws-imagine-grant-program/

American Psychological Foundation

Research in Ethics & Risk Management

Supports an early career psychologist or graduate student for research or projects in the area of ethics and risk management. Proposals will be evaluated on the following factors:

1. innovative and potential impact qualities;
2. quality, viability, and promise of proposed work;
3. clear and comprehensive methodology; and
4. practicality of budget

Awards:

One award of $5,000

Eligibility:

Please see the following link for detailed eligibility information.

Deadline:

05/01/2022

Links:

https://www.apa.org/apf/funding/eric-harris?tab=1

International Foundation for Ethical Research

Graduate Student Fellowships for Alternatives in the Use of Animals in Science

Supports graduate student research projects that show the greatest potential to reduce, refine or replace the use of animals in research, testing, and/or education.

Awards:

Multiple awards of up to $12,500 each annually for up to three years

Eligibility:

Restricted to graduate and PhD students at institutions of higher education

Deadline:

04/30/2022

Links:

http://www.ifer.org/available-fellowships.html

Lennox-Gastaut Syndrome Foundation

Cure Lennox-Gastaut Syndrome (LGS) 365 Research Grants

Supports a broad range of research projects focused on LGS - a rare, severe, life-threatening epilepsy that leads to uncontrolled seizures, significant brain damage, and lifelong dependence on others for care. Interested researchers must submit a Letter of Intent outlining their proposed project.

Proposals are accepted on a rolling basis.

Awards:

Multiple awards of up to $75,000 each

Eligibility:

Unrestricted

Links:

https://www.lgsfoundation.org/365-research-grants/

Lung Cancer Research Foundation

Pilot Project Grants

Supports innovative projects across the full spectrum of basic, translational, clinical, epidemiological, health services, early detection, disparities, and social determinants of health research. Projects may focus on, but are not limited to, the following:

- Lung cancer biology;
- Prevention and screening for early detection;
- Development of more effective and less toxic therapies including but not limited to targeted and immune-therapies;
- Genetic and gene-environment interactions;
- Interactions and contributions of multiple factors (e.g., smoking, genetics, environment, societal factors) to disparities in lung cancer outcomes;
- Bioengineering approaches to understanding and/or treating lung cancer (i.e., theranostics, biomaterials, nanotechnology, controlled-drug release, and gene-therapy);
- Supportive measures for people with lung cancer and their families; and others

Awards:

Multiple awards of up to $150,000 each

Eligibility:

Restricted to researchers at domestic nonprofit institutions of higher education and research institutes

Deadline:

04/30/2022

Links:

https://www.lungcancerresearchfoundation.org/wp-content/uploads/LCRF-GRANTRFP-PILOT-FY22-FINAL.pdf

soQuiet

Student Research Grants for Misophonia

Supports compelling graduate student research projects in any area dealing with misophonia, misokinesia, or related sensory disorders. Research into possible causes and treatments for misophonia (et. al.) is of great interest to the soQuiet Scientific Advisory Committee.

Applications are accepted on a rolling basis.

Awards:

Multiple awards of up to $1,200 each

Eligibility:

Restricted to graduate and PhD students at domestic institutions of higher education

Links:

https://www.soquiet.org/grants

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