FUNDING ALERT

Notes

- 1. Weekly opt-in funding alert provided by the UMD-College Park Division of Research and <u>SSTI</u>. 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: <u>http://go.umd.edu/fundingalert</u>.

SSTI (May 31)

New Funding Opportunities for TBED

National Aeronautics and Space Administration

NASA Innovation Corps Pilot

NASA invites proposals for a new element of its ROSES-2022 research funding program, the NASA Innovation Corps Pilot. The goal is to provide support for participation in the National Science Foundation (NSF) (I-Corps[™] Program to train faculty, students in higher education, post-docs, and other researchers in innovation and entrepreneurship skills. The pilot employs education through virtual courses to guide teams in the process of developing a business model while supporting teams as they explore the commercial potential of their research. NASA's Science Mission Directorate and Space Technology Mission Directorate are partnering to expand the agency's participation by leveraging the infrastructure of NSF's I-Corps Program and National Innovation Network. For both the Short and National Course, a NASA I-Corps Pilot team must include a Technical Lead, an Entrepreneurial Lead, and an Industry Mentor. All team members of a NASA I-Corps Pilot award are required to participate in the entire Short Course and, if selected, the entire National Course.

Awards:

Funding per NASA I-Corps Pilot Short Course award may not exceed \$10,000. National course awards cap out at \$40,000.

Eligibility:

Only nonprofit, non-governmental organizations may apply

Deadline:

03/29/2023 **AwardsID(s):** NNH22ZDA001N-ICOR Links:

https://nspires.nasaprs.com/external/solicitations/summary.do?solId={1B42E782-61BB-9834-F20F-44CBEF13C0A6}&path=&method=init Return to top

New Federal R&D Funding Opportunities

Department of Energy

Reaching a New Energy Sciences Workforce (RENEW) program

The DOE Office of Science invites proposals for six different aspects of its RENEW program The goal of renew is to build foundations for Office of Science (SC) research and training at institutions historically underrepresented in the SC research portfolio. RENEW leverages SC's unique national laboratories, user facilities, and other research infrastructures to provide undergraduate and graduate training opportunities (i.e., internships) for students and academic institutions not currently well represented in the U.S. science and technology ecosystem. The hands-on experiences gained through the RENEW initiative will open new career avenues for participants, forming a nucleus for a future pool of talented young scientists, engineers, and technicians with the critical skills and expertise needed for the full breadth of SC research activities. The six separate opportunities are focused on different aspects of the DOE research portfolio. Each has its own deadline.

- Advanced Scientific Computing Research (DE-FOA-0002767) ASCR RENEW funding will strive to increase participation of underrepresented groups in the quantum computing and networking workforce and to increase participation of underrepresented institutions in quantum computing and networking workforce training. Required Pre-applications are due Aug 3, 2022. Multiple awards of up to \$500,000 are anticipated from total funding of \$5 million. Use Opportunity ID 340651 in the links below.
- Basic Energy Sciences (DE-FOA-0002763) The BES element of the RENEW is focused on increasing more diverse participation in clean energy research portfolio. Letters of intent are required and are due Aug 2, 2022. Multiple awards ranging between \$500,000 and \$750,000 are anticipated from a total funding pool of \$15 million. Use Opportunity ID 340675 in the links below
- Earth and Environmental Systems (DE-FOA-0002757) Funding may be requested to support experiential training, mentoring, and institutional capacity building activities in partnership with DOE national laboratory Scientific Focus Areas supported within the Earth and Environmental Systems Sciences Division. Pre-applications are required and are due June 29, 2022. Multiple awards ranging between \$300,000 and \$800,000 are anticipated from a total pool of \$8 million. Use Opportunity ID 340631 in the links below.
- Fusion Energy Sciences (DE-FOA-0002758) The FES element of RENEW is focused on FES's fusion and plasma science and technology research portfolio. Required letters of intent are due June 15, 2022. Multiple awards ranging between \$20,000 and \$500,000 are anticipated from total funding of \$3 million. Use Opportunity ID 340641 in the links below
- High Energy Physics (DE-FOA-0002759) The HEP element of RENEW will support training and research experiences in support of particle physics for members of underserved communities, with the dual goals of : 1) increasing the likelihood that participants from underrepresented populations, such as those present at minority serving institutions, will pursue a career in a Science, Technology, Engineering or Math related field; and 2) supporting investigators and building research infrastructure at institutions that have not traditionally been part of the particle physics portfolio. Multiple awards of up to \$500,000 are anticipated from total funding of \$5 million. Applications are due Aug 15, 2022. Use Opportunity ID 340642 in the links below.

Isotope Training, Research, and Development at Minority Serving Institutions (DE-FOA-0002765) is rather self-described in the title. PI's, key personnel, and students and postdocs of RENEW awards will be invited to participate in cross Isotope R&D and Production (DOE Isotope Program or DOE IP) researcher meetings and/or SC-wide professional development and collaborator events. Required letters of intent are due June 22, 2022. Multiple awards up to \$1 million each may be made from a total pool of \$10 million. Use Opportunity ID 340656 in the links below.

Eligibility:

Unrestricted domestically

AwardsID(s):

DE-FOA-0002763, DE-FOA-0002758, DE-FOA-0002765, DE-FOA-0002757, DE-FOA-0002767, DE-FOA-0002759

Links:

https://www.grants.gov/web/grants/viewopportunity.html?oppId=340675, https://www.grants.gov/web/grants/viewopportunity.html?oppId=340641, https://www.grants.gov/web/grants/viewopportunity.html?oppId=340656, https://www.grants.gov/web/grants/viewopportunity.html?oppId=340631, https://www.grants.gov/web/grants/viewopportunity.html?oppId=340651, https://www.grants.gov/web/grants/viewopportunity.html?oppId=340651, https://www.grants.gov/web/grants/viewopportunity.html?oppId=340642

Department of Health and Human Services

A Multi-omics Approach to Immune Responses in HIV Vaccination and Intervention

The National Institute of Allergy and Infectious Diseases and National Institute on Drug Abuse jointly invite proposals to support multi-disciplinary, multi-component applications proposing the use of omics technologies to advance preventative and/or therapeutic vaccinations, and/or immunomodulatory cure interventions for HIV. Projects will integrate omics, computational, and hypothesis-driven experimental approaches to interrogate immune responses to HIV vaccination and/or cure strategies. Seven areas of particular interest are identified in the announcement, but applicants are not limited to those topics. **Awards:**

2-3 awards are anticipated from a total pool of \$4.5 million **Eligibility:** Unrestricted domestically **AwardsID(s):** RFA-AI-22-038 **Links:** https://grants.nih.gov/grants/guide/rfa-files/RFA-AI-22-038.html

Bioprinted Tissue Constructs for Obstetric, Gynecologic, and Pediatric Applications

The National Institute of Child Health and Human Development invites applications that will utilize 3D bioprinting technologies to develop tissue constructs for long-term use that will adapt to the needs of growing children, and for obstetric and gynecological conditions. The overall goal of this initiative is to promote the clinical translation of bioprinted tissue constructs by helping to identify and working to overcome current barriers to preclinical product development, validation and verification. The institute states this opportunity is not intended for *early stage, hypothesis validation* of new bioprinted tissue constructs not yet mature for pursuing clinical translation or to support large scale clinical trials using bioprinted tissue constructs.

Awards: Up to 2 awards from a pool of \$1.75 million in FY23 Eligibility: Unrestricted domestically Deadline: 07/27/2022 AwardsID(s): RFA-HD-23-004 Links: https://grants.nih.gov/grants/guide/rfa-files/RFA-HD-23-004.html

BRAIN Initiative

Multiple NIH institutes and offices are participating in the BRIAN initiative. Three related funding opportunities were announced May 24. Two involve integrated, interdisciplinary research teams as applicants; two require human studies in the proposed work. For all three opportunities, Letters of Intent are due at least 30 days prior to the deadlines.

- Team-Research BRAIN Circuit Programs no clinical trials (RFA-NS-22-040) focusing on examining dynamic circuit functions related to behavior, using advanced and innovative technologies through five-year projects with one competing renewal option. Applications should focus on overarching principles of circuit function in the context of specific neural systems underlying sensation, perception, emotion, motivation, cognition, decision-making, motor control, communication, or homeostasis. Applications should aim to understand these circuits of the central nervous system by systematically controlling stimuli and/or behavior while actively recording and/or manipulating relevant dynamic patterns of neural activity and by measuring the resulting behaviors and/or perceptions. No clinical trials are allowed. The deadline is Sep 16. 2022.
- Team-Research BRIAN Circuit Program basic experimental studies with humans required (RFA-NS-22-039) - similar in purpose and intent to the solicitation above. The difference is that the teams funding by this opportunity must involve studies involving human subjects in their research. The deadline is Sep 16, 2022.
- Research Opportunities Using Invasive Neural Recording and Stimulating Technologies in the Human Brain ((RFA-NS-22-41) - Invasive surgical procedures offer the opportunity for unique intracranial interventions such as the ability to record and stimulate intracranially within precisely localized brain structures in humans. Human studies using invasive technology are often constrained by a limited number of patients and resources available to implement complex experimental protocols and need to be aggregated in a manner that addresses research questions with appropriate statistical power. This funding opportunity seeks applications to assemble diverse, integrated, multi-disciplinary teams that cross boundaries of interdisciplinary collaboration to overcome these fundamental barriers and to investigate high-impact questions in human neuroscience. Human studies are required. The deadline is Sep 23, 2022.

Awards:

Five new team awards are ancitpiated from a total of \$22 million. **Eligibility:** Unrestricted domestically **AwardsID(s):** RFA-NS-22-039, RFA-NS-22-040, RFA-NS-22-041 **Links:** https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-22039.html, https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-22-040.html, https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-22-041.html

Centers for Basic Neuroscience or Translational Mental Health Research

National Institute of Mental Health invites applications to support Silvio O. Conte Centers for Basic Neuroscience or Translational Mental Health Research. Specifically sought are interdisciplinary teams of researchers working at different levels of analysis and employing integrative, novel, and creative experimental approaches to address high-risk, high-impact questions with the primary objectives of: (a) advancing the state of the science in basic brain and behavior research that will uncover and dissect the underlying mechanisms that will ultimately provide the foundation for understanding mental disorders; (b) supporting the integration and translation of basic and clinical neuroscience research on severe mental illnesses; and/or (c) advancing our understanding of the neurobehavioral developmental mechanisms and trajectories of psychopathology that begin in childhood and adolescence.

Awards:

Multiple awards of up to \$2 million in annual direct costs are anticipated, FY23 appropriations allowing. **Eligibility:**

Unrestricted domestically Deadline: 07/07/2023 AwardsID(s): PAR-22-155 Links: https://grants.nih.gov/grants/guide/pa-files/PAR-22-155.html

HIV Research

National Institute of Child Health and Human Development invites applications to support integrated, multi-project research programs that address HIV scientific areas relevant to the NICHD mission. Research themes specifically of interest are:

- 1. The study of adverse outcomes related to antiretrovirals, HIV and co-infections.
- 2. Research on HIV and tuberculosis co-infection in the maternal/fetal dyad, infants, children, and adolescents will expand knowledge on the unique clinical aspects of HIV/TB co-infection to generate improved preventive and therapeutic regimens and diagnostics.
- 3. Research on different approaches to vaccine development and HIV cure may be needed for individuals with evolving immune status. Research on the establishment of HIV reservoirs in different developmental stages, acute vs chronic infection and the type, quality, durability, vulnerability, and preferred cell type of the reservoirs needs further elucidation, especially in understudied populations in these studies, such as pregnant women and infants.
- 4. Research to understand changes in immune status and inflammation in HIV exposure or infection and co-infection in the maternal fetal/dyad, during pregnancy including gut microbiome/virome changes on brain and organ development remain areas of interest. Understanding the role that innate immunity plays in the immune response early in life and in development of vaccines and immune based therapies would also be of interest.
- 5. The use of new technologies from different fields including advanced statistical modeling, Artificial Intelligence to better track vulnerable populations in the HIV epidemic and its evolution and cooccurrence in other epidemics/pandemics like SARS CoV2 is encouraged.

Awards:

Two awards from a pool of \$3 million.

Eligibility: Unrestricted (open to foreign and domestic applicants) Deadline: 07/10/2022 AwardsID(s): RFA-HD-23-026 Links: https://grants.nih.gov/grants/guide/rfa-files/RFA-HD-23-026.html

Maximizing Investigators' Research Awards

The National Institute of General Medical Sciences support for the program of research in an investigator's laboratory that is within the mission of NIGMS. The goal of MIRA is to increase the efficiency and efficacy of NIGMS funding. It is anticipated that this program will:

- Increase the stability of funding for NIGMS-supported investigators, which could enhance their ability to take on ambitious scientific projects and approach problems more creatively;
- Increase flexibility for investigators to follow important new research directions within the NIGMS
 mission as opportunities arise, rather than being bound to specific aims proposed in advance of
 the studies;
- More widely distribute funding among the nation's highly talented and promising investigators to increase overall scientific productivity and the chances for important breakthroughs;
- Reduce the time spent by researchers writing and reviewing grant applications, allowing them to spend more time conducting research;
- Enable investigators to devote more time and energy to mentoring trainees in a more stable research environment.

Awards:

Multiple awards of up to \$750,000 in annual direct costs for existing awardees; \$250,000 cap for new investigators **Eligibility**:

Unrestricted domestically Deadline: 01/17/2023 AwardsID(s): PAR-22-180 Links: https://grants.nih.gov/grants/guide/pa-files/PAR-22-180.html

Mental Health Research Dissertation Grant to Enhance Workforce Diversity

The National Institute of Mental Health seeks to enhance the diversity of the mental health research workforce by providing dissertation awards in all research areas within the strategic priorities of the NIMH to individuals from diverse backgrounds, including those from groups underrepresented in biomedical, behavioral, clinical and social sciences research. Specifically with this announcement, NIMH wants to support efforts to complete a mental health-related doctoral research project and includes funds not readily available in NRSA predoctoral (F31) awards, which limit support to stipends, tuition and fees, and institutional allowance. No clinical trials are allowed.

Awards:

Multiple awards of 12-24 months are anticipated.

Eligibility: Unrestricted domestically Deadline: 08/10/2022 AwardsID(s): PAR-22-172 Links: https://grants.nih.gov/grants/guide/pa-files/PAR-22-172.html

NCI Research Specialist Awards

The Research Specialist Award is designed to encourage the development of stable research career opportunities for exceptional scientists who want to continue to pursue research within the context of an existing NCI-funded basic, translational, clinical, or population science cancer research program, but not serve as independent investigators. It is anticipated that only exceptional scientists who want to pursue research within the context of an existing NCI-funded cancer research program, but not serve as independent investigators, will be competitive for this award. Two separate funding opportunities have been made:

- Announcement PAR-22-187 is specifically for **laboratory-based scientists**. These non-tenure track scientists, such as researchers within a research program, are vital to sustaining the biomedical research enterprise
- **Core-based scientists** should apply through PAR-22-188. These scientists, such as researchers within a core/shared resource/central scientific support, are vital to sustaining the biomedical research enterprise.

Awards:

Multiple awards supporting salary and travel support Eligibility: Unrestricted domestically Deadline: 11/02/2022 AwardsID(s): PAR-22-187 , PAR-22-188 Links: https://grants.nih.gov/grants/guide/pa-files/PAR-22-187.html, https://grants.nih.gov/grants/guide/pa-

files/PAR-22-188.html

Promoting Organ and Tissue Donation Among Health Disparity Populations

The National Institute of Diabetes and Digestive and Kidney Diseases invites proposal to stimulate research in the area of organ and tissue donation among health disparity populations, such as racial and ethnic minorities, the socioeconomically disadvantaged, underserved rural populations, sexual and gender minorities, and other underserved communities. Proposed studies may include studying individual-level factors such as attitudes, beliefs, and behaviors towards organ and tissue donation, as well as the need for transplantation. In addition, studies may include examining the influence of social determinants of health on disparities in organ and tissue donation. Support will be provided for testing various hypotheses related to the barriers and challenges of organ and tissue donation, as well as for facilitating the development of novel interventions.

Awards:

NIDDK intends to commit \$1,250,000 in FY23 to fund 5 awards.

Eligibility: Unrestricted domestically Deadline: 10/27/2022 AwardsID(s): RFA-DK-22-003 Links: https://grants.nih.gov/grants/guide/rfa-files/RFA-DK-22-003.html

Resources Access for Preclinical Integrated Drug Development

The National Institute of Allergy and Infectious Diseases offers this opportunity to provide investigators working on the development of novel therapeutic products for HIV and HIV-associated co-infections (hepatitis B virus, hepatitis C virus, and Mycobacterium tuberculosis) with a mechanism to request NIAID DAIDS preclinical services to fill gaps in their product development efforts and facilitate the advancement of promising therapeutics from bench to clinics. Available services include, but are not limited to:

- In Vitro Testing and Screening of HIV Compounds
- Evaluations in Small Animal Models for HIV, HBV, HCV and MTB
- Formulation Development and Manufacture of Clinical Dosage Forms for HIV and HIV-associated
- Preclinical Pharmacology and Toxicology for HIV and HIV-associated Coinfections HBV, HCV, and TB

It is expected that the originating investigator, institution or a collaborating partner will have acquired or be in the process of acquiring appropriate intellectual property protection prior to application to the RAPIDD Program.

Awards:

not applicable **Eligibility:** Unrestricted (open to foreign and domestic applicants) **AwardsID(s):** PAR-22-185 **Links:** https://grante.nih.gov/grante/govide/go_files/DAD_22_185

https://grants.nih.gov/grants/guide/pa-files/PAR-22-185.html

New Foundation R&D Funding Opportunities

National Institute for Health Care Management Foundation

Investigator-initiated health services research

The Foundation invites letters of inquiry for the 2022-2023 funding cycle of its investigator-initiated research grant program to advance this mission. NIHCM will make up to \$500,000 available to new and existing grantees in support of innovative investigator-initiated research with high potential to inform improvements to the U.S. healthcare system. Projects must advance the existing knowledge base healthcare financing, delivery, management and/or policy.

Awards:

Multiple awards from a pool of \$500,000. **Eligibility:** Unrestricted (priority for applicability to U.S. healthcare system) **Deadline:** 07/01/2022

Paralyzed Veterans of America

spinal cord injury and disease research

The foundation invites applications for research grants and fellowships that will be awarded in support of innovative research and fellowships with the potential to improve the lives of those with spinal cord injury and disease (SCI/D) in the following categories:

- Basic Science: Laboratory research in the basic sciences to find a cure for SCI/D.
- **Clinical:** Clinical and functional studies of the medical, psychosocial, and economic effects of SCI/D, and interventions to alleviate these effects.
- **Design and Development:** New or improved rehabilitative and assistive technology/devices for people with SCI/D to improve function, which also includes improving the identification, selection, and utilization of these devices.
- **Fellowships:** For postdoctoral scientists, clinicians, and engineers to encourage training and specialization in spinal cord research.

Projects should be designed to find better treatments and cures for paralysis and support efforts to improve the quality of life of individuals with SCI/D until improved clinical treatments, technologies, or cures are discovered, as well as to train post-doctoral fellow investigators and encourage them to specialize in spinal cord research.

Eligibility:

U.S. or Canadian researchers with a professional degree (PhD or MD preferred)

Deadline:

07/01/2022

Links:

https://pva.org/research-resources/research-foundation/

Simons Foundation

Autism Research -- increasing inclusivity

The Foundation invites applications for its SPARK Research Match Diversity, Equity, and Inclusivity program. SPARK is the world's largest research study on autism to accelerate autism research and discovery by building an online research community of thousands of individuals with Autism Spectrum Disorders and their family members. Participation in SPARK is simple, accessible, and open to individuals living in the United States with a professional diagnosis of ASD SPARK participants can consent to be contacted about other research opportunities in the future through SPARK Research Match. The program aims to address historical disparities in research participation by Black or African American individuals by soliciting studies on autism that recruit Black or African American participants. Funding will provide per-person participant incentives (e-gift cards) for online surveys or remote projects (e.g., phone interviews, focus groups, telehealth) that utilize SPARK Research Match to recruit participants for new research studies.

Awards:

Researchers may apply for a maximum of \$20,000 in per-person incentive funding per study.

Deadline:

06/30/2022

Links:

https://www.sfari.org/grant/spark-research-match-diversity-equity-and-inclusivity-request-forapplications/

New Challenges and Prize Competitions

American Association for the Advancement of Science

Early Career Award for Public Engagement with Science

The award recognizes early-career scientists and engineers who demonstrate excellence in contributing to public engagement with science activities. Types of public engagement activities might include informal science education; public engagement and public dialogue activities, such as science cafés and science festivals; public policy activities; science communication activities, such as mass media, including radio, TV, books, and film; and social media. A \$5,000 prize, a commemorative plaque, and complimentary registration to the AAAS annual meeting will be awarded to an individual who demonstrates excellence in their research careers and in promoting meaningful dialogue between science and society.

Eligibility:

Candidates must represent a STEM field and be actively conducting research in any scientific discipline. They may be based in academia, government, or industry and must have completed their terminal degree within seven years of the deadline.

Deadline:

06/30/2022 Links: https://www.aaas.org/awards/early-career-public-engagement/about

Research Corporation for Science Advancement

Cottrell Scholar Award recognizing high-potential basic research

The organization invites applications for its Cottrell Scholar Award program, which champions the very best early-career teacher-scholars in chemistry, physics, and astronomy by providing significant discretionary awards for research. Nurturing an interdisciplinary community of outstanding scientific/educational/academic leaders, the CS program fosters synergy among faculty at major U.S. and Canadian research universities and primarily undergraduate institutions. The ability of applicants to propose and mount a strong and innovative research program, achieve excellence in education, and develop effective academic citizenship skills are key criteria in the selection process.

Awards:

A single award of \$100,000 over three years

Eligibility:

limited to faculty members who started their first tenure-track appointment anytime in the calendar year 2019

Deadline:

07/01/2022 Links:

https://rescorp.org/cottrell-scholars/guidelines

Sigma Theta Tau

Doris Bloch Research Award for nursing research

The purpose of the Sigma Theta Tau International Honor Society of Nursing is to develop nurse leaders anywhere to improve health care everywhere. The award will support efforts to contribute to the advancement of nursing through research. Applications from novice researchers who have received no other national research funds are encouraged and will receive preference for funding, other aspects being equal.

Awards: A single award of \$5,000 Eligibility: Licensed registered nurse (or country equivalent with a masters or equivalent in nursing Deadline: 07/01/2022 Links: https://www.sigmanursing.org/advance-elevate/research/research-grants/doris-bloch-research-award

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