NEW GRANT OPPORTUNITIES/AGENCY NOTICES
October 9, 2019

NEW GRANTS

Science and Technology

National Science Foundation
NSF/CASIS Collaboration on Tissue Engineering and Mechanobiology on the International Space Station (ISS) to Benefit Life on Earth
Funding Opportunity Number: 20-500
Application Deadline: Mar 02, 2020
Estimated Maximum Total Value: $2,000,000
Summary
To solicit research projects in the general fields of tissue engineering and mechanobiology that can utilize the International Space Station (ISS) National Lab to conduct research that will benefit life on Earth
Link: 20-500

National Science Foundation
National Artificial Intelligence (AI) Research Institutes
Funding Opportunity Number: 20-503
Application Deadline: Jan 30, 2020
Estimated Maximum Total Value: $124,000,000
Maximum Total Value Per Award: $20,000,000
Estimated Number of Awards: 14
Summary
Federal Highway Administration (FHWA), and U.S. Department of Veterans Affairs (VA), seeks to enable such research through AI Research Institutes. This program solicitation describes two tracks: Planning and Institute tracks. Submissions to the Planning track are encouraged in any areas of foundational and use-inspired research appropriate to NSF and its partner organizations.
Link: 20-503

National Science Foundation
Transport Phenomena Research at the International Space Station to Benefit Life on Earth
Funding Opportunity Number: 20-501
Application Deadline: Mar 02, 2020
Estimated Maximum Total Value: $3,000,000
Summary
To solicit research projects in the general field of fluid dynamics, particulate and multiphase processes, combustion and fire systems, thermal transport processes, and nanoscale interactions that can utilize the International Space Station (ISS) National Lab to conduct research that will benefit life on Earth
Link: 20-501
National Science Foundation
NSF/CASIS Collaboration on Tissue Engineering and Mechanobiology on the International Space Station (ISS) to Benefit Life on Earth
Funding Opportunity Number: 20-500
Application Deadline: Mar 02, 2020
Estimated Maximum Total Value: $2,000,000
Summary
The Divisions of Chemical, Bioengineering and Environmental Transport (CBET) and Civil, Mechanical, and Manufacturing Infrastructure (CMMI) in the Engineering Directorate of the National Science Foundation (NSF) are partnering with The Center for the Advancement of Science in Space (CASIS) to solicit research projects in the general fields of tissue engineering and mechanobiology that can utilize the International Space Station (ISS) National Lab to conduct research that will benefit life on Earth. Only U.S. entities including academic investigators, non-profit independent research laboratories and academic-commercial teams are eligible to apply.
Link: 20-500

National Science Foundation
EHR Core Research (ECR): Building Capacity in STEM Education Research
Funding Opportunity Number: 19-565
Application Deadline: Jun 05, 2020
Estimated Maximum Total Value: $12,000,000
Summary
supports projects that build individuals’ capacity to carry out high quality STEM education research that will enhance the nation’s STEM education enterprise and broaden the pool of researchers that can conduct fundamental research in STEM learning and learning environments, broadening participation in STEM fields, and STEM workforce development
Link: 19-565

National Science Foundation
Division of Environmental Biology
Funding Opportunity Number: 20-502
Application Deadline: Proposals accepted anytime
Estimated Maximum Total Value: $100,000,000
Maximum Total Value Per Award: $5,000,000
Summary
Research may incorporate field, laboratory, or collection-based approaches; observational or manipulative studies; synthesis activities; phylogenetic discovery projects; or theoretical approaches involving analytical, statistical, or computational modeling. Proposals should be submitted to the core clusters (Ecosystem Sciences, Evolutionary Processes, Population and Community Ecology, and Systematics and Biodiversity Sciences).
Link: 20-502

National Science Foundation
Transport Phenomena Research at the International Space Station to Benefit Life on Earth
Funding Opportunity Number: 20-501
Application Deadline: Mar 02, 2020
Estimated Maximum Total Value: $3,000,000

Summary
The Division of Chemical, Bioengineering and Environmental Transport (CBET) in the Engineering Directorate of the National Science Foundation (NSF) is partnering with The Center for the Advancement of Science in Space (CASIS) to solicit research projects in the general field of fluid dynamics, particulate and multiphase processes, combustion and fire systems, thermal transport processes, and nanoscale interactions that can utilize the International Space Station (ISS) National Lab to conduct research that will benefit life on Earth. Only U.S. entities including academic investigators, non-profit independent research laboratories and academic-commercial teams are eligible to apply.

Link: 20-501

National Science Foundation
EHR Core Research (ECR): Building Capacity in STEM Education Research
Funding Opportunity Number: 19-565
Application Deadline: Jun 05, 2020
Estimated Maximum Total Value: $12,000,000

Summary
Supports projects that build individuals’ capacity to carry out high quality STEM education research that will enhance the nation’s STEM education enterprise and broaden the pool of researchers that can conduct fundamental research in STEM learning and learning environments, broadening participation in STEM fields, and STEM workforce development. Specifically, ECR: BCSER supports activities that enable early and mid-career researchers to acquire the requisite expertise and skills to conduct rigorous fundamental research in STEM education.

Link: 19-565

National Science Foundation
Division of Environmental Biology
Funding Opportunity Number: 20-502
Application Deadline: Proposals accepted anytime
Estimated Maximum Total Value: $100,000,000
Maximum Total Value Per Award: $5,000,000

Summary
DEB encourages research that elucidates fundamental principles that identify and explain the unity and diversity of life and its interactions with the environment over space and time. Research may incorporate field, laboratory, or collection-based approaches; observational or manipulative studies; synthesis activities; phylogenetic discovery projects; or theoretical approaches involving analytical, statistical, or computational modeling. Proposals should be submitted to the core clusters (Ecosystem Sciences, Evolutionary Processes, Population and Community Ecology, and Systematics and Biodiversity Sciences).

Link: 20-502

Department of Energy/Advanced Research Projects Agency Energy
Generating Electricity Managed by Intelligent Nuclear Assets (GEMINA)
Funding Opportunity Number: DE-FOA-0002174
Application Deadline: Nov 13, 2019
Estimated Maximum Total Value: $35,000,000
Maximum Total Value Per Award: $10,000,000
Estimated Number of Awards: 15

Summary
(A) to enhance the economic and energy security of the United States through the development of energy technologies that result in—(i) reductions of imports of energy from foreign sources; (ii) reductions of energy-related emissions, including greenhouse gases; and (iii) improvement in the energy efficiency of all economic sectors; and (B) to ensure that the United States maintains a technological lead in developing and deploying advanced energy technologies.

Link: DE-FOA-0002174

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**Health**

**National Institutes of Health/ Office of Research on Women’s Health**

**Women’s Reproductive Health Research (WRHR) Career Development Program (K12 Clinical Trial Optional)**

Funding Opportunity Number: RFA-HD-20-013
Application Deadline: Nov 29, 2019
Maximum Total Value Per Award: $315,000

Summary
The goal of this program is to continue to build the national capacity of outstanding junior clinician-investigators who will strengthen the field of obstetrics and gynecology and contribute to the improvement of women’s health.

Link: RFA-HD-20-013

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**National Institutes of Health/ National Heart, Lung, and Blood Institute (NHLBI)**

**Heart, Lung, and Blood Co-morbidities Implementation Models in People Living with HIV (HLB-SIMPLe) Research Coordinating Center (U24 - Clinical Trial Not Allowed)**

Funding Opportunity Number: RFA-HL-20-026
Application Deadline: Dec 10, 2019
Estimated Maximum Total Value: $1,488,000
Maximum Total Value Per Award: $960,000
Estimated Number of Awards: 1

Summary
For the purposes of this FOA, late-stage implementation research is defined as research to identify strategies to achieve sustainable uptake of proven-effective interventions in routine clinical, public health, and community-based settings and maximize the positive impact on population health.

Link: RFA-HL-20-026

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**National Institutes of Health/ National Institute of Mental Health (NIMH)**

**Genetic Architecture of Mental Disorders in Ancestrally Diverse Populations (Collaborative U01 Clinical Trial Not Allowed)**

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800 Maine Ave SW
Suite 800
Washington, DC 20024

202.638.1950
vsadc.com
Funding Opportunity Number: PAR-20-027
Application Deadline: Sep 15, 2022
Summary
This Funding Opportunity Announcement (FOA) seeks applications proposing coordinated efforts to accelerate gene discovery for psychiatric disorders in cohorts of non European ancestry to advance the important goal of global mental health discovery and equity. This funding opportunity announcement (FOA) is one of several FOAs supporting a program called, “Ending Disparities in Mental Health” (EDify-MH).
Link: PAR-20-027

HHS/Centers for Disease Control - NCCDPHP
Public Health and Health Systems Partnerships to Increase Colorectal Cancer Screening in Clinical Settings
Funding Opportunity Number: CDC-RFA-DP20-2002
Application Deadline: Mar 17, 2020
Estimated Maximum Total Value: $110,000,000
Maximum Total Value Per Award: $900,000
Estimated Number of Awards: 35
Summary
This announcement provides funds to recipients to partner with health systems and individual primary care clinics to implement evidence-based interventions (EBIs) to increase colorectal cancer (CRC) screening uptake among applicant defined populations age 50-75 years that have CRC screening rates lower than the national, regional, or local rate.
Link: CDC-RFA-DP20-2002

National Institutes of Health/ National Cancer Institute
Perception and Cognition Research to Inform Cancer Image Interpretation (R21 Clinical Trial Optional)
Funding Opportunity Number: PAR-19-389
Application Deadline: Jan 07, 2023
Maximum Total Value Per Award: $200,000
Summary
The purpose of this Funding Opportunity Announcement (FOA) is to facilitate research on the perceptual and cognitive processes underlying the performance of cancer image observers in radiology and pathology, in order to improve the accuracy of cancer detection and diagnosis.
Link: PAR-19-389

National Institutes of Health/ Office of Strategic Coordination
Discovery of the Genetic Basis of Childhood Cancers and of Structural Birth Defects: Gabriella Miller Kids First Pediatric Research Program (X01 Clinical Trial Not Allowed)
Funding Opportunity Number: PAR-19-390
Application Deadline: Jan 31, 2020
Summary
As part of the Gabriella Miller Kids First Pediatric Research Program (Kids First), the NIH invites applications to submit samples from pediatric cohorts for whole genome sequencing at a Kids First-supported sequencing center. Applicants are encouraged to propose sequencing of existing pediatric cancer cohorts to elucidate the
genetic contribution to childhood cancers, or to expand the range of disorders included within the Kids First Data Resource to investigate the genetic etiology of structural birth defects.

Link: PAR-19-390

**National Institutes of Health**

**Notice of Intent: Research in Reproduction and Infertility (NCTRI) (P50 Clinical Trial Optional)**

Funding Opportunity Number: NOT-HD-19-030  
Application Deadline: Apr 15, 2020  
Estimated Maximum Total Value: $3,200,000  
Maximum Total Value Per Award: $1,000,000  
Estimated Number of Awards: 2

**Summary**

1. To align directly with NICHD’s Strategic Plan, applications that address the etiology of infertility disease pathogenesis using ‘omic (e.g., genomic, epigenomic, proteomic, metabolomic) technologies will be strongly encouraged. Particular emphasis will be on applications that go beyond correlative studies to address possible causality and contributions to the etiology of infertility and of diseases and disorders that impact fertility.

Link: NOT-HD-19-030

**National Institutes of Health**

**Notice of Intent: Development and Application of PET and SPECT Imaging Ligands as Biomarkers for Drug Discovery and for Pathophysiologic Studies of CNS Disorders (R01 Clinical Trial not allowed)**

Funding Opportunity Number: NOT-MH-19-043  
Application Deadline: Feb 05, 2020  
Estimated Number of Awards: 5

**Summary**

Intends to promote a new initiative by publishing a Funding Opportunity Announcement (FOA) to solicit applications for research on the development of PET and SPECT tracers for molecular targets (e.g., receptors, intracellular messengers, disease-related proteins) that are implicated in mental disorders and alcohol abuse as tools to study disease pathophysiology and/or for assessing target engagement of potential therapeutic candidates.

Link: NOT-MH-19-043

**National Institutes of Health**

**Notice of Intent: Step Up for Substance Use Disorders (SUD): A Drug Target Initiative for Scientists Engaged in Fundamental Research (U18 - Clinical Trial Not Allowed)**

Funding Opportunity Number: NOT-DA-19-076  
Application Deadline: Feb 13, 2020  
Estimated Maximum Total Value: $150,000  
Maximum Total Value Per Award: $150,000

**Summary**

To establish 50 new awards for the “Step Up for Substance Use Disorders (SUD): A Drug Target Initiative for Scientists Engaged in Fundamental Research” program to provide short-term funding to conduct experiments aiming to expand the range of drug targets and mechanisms for SUD therapies. In addition, the FOA will allow...
for in-kind access to biomedical product development expertise, business strategy and commercialization support, and assistance in the company/startup formation, as needed.

Link: NOT-DA-19-076

National Institutes of Health
Notice of Intent: NIH Blueprint Program for Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (R25 Clinical Trial Not Allowed)
Funding Opportunity Number: NOT-NS-20-009
Application Deadline: Feb 19, 2020
Summary
Intends to reissue a Funding Opportunity Announcement (FOA) for receipt of new and renewal applications for its research education program for neuroscience focused undergraduates. The overall objective of this funding opportunity will be to increase the number of undergraduate participants from diverse groups who successfully enter and complete Ph.D. degree programs in the neurosciences.

Link: NOT-NS-20-009

National Institutes of Health/ National Cancer Institute
HEAL INITIATIVE: Development of Therapies and Technologies Directed at Enhanced Pain Management (R43/R44 - Clinical Trial Not Allowed)
Funding Opportunity Number: RFA-NS-20-011
Application Deadline: Sep 08, 2022
Summary
Aims to speed scientific solutions to stem the national opioid public health crisis by supporting the development of therapies and technologies directed at enhanced pain management through the Small Business Innovation Research (SBIR) program.

Link: RFA-NS-20-011

National Institutes of Health
Notice of Intent: Data Harmonization, Curation and Secondary Analysis of Existing Clinical Datasets (R61/R33 Clinical Trial Not Allowed)
Funding Opportunity Number: NOT-NS-19-071
Application Deadline: Mar 16, 2020
Estimated Maximum Total Value: $1,500,000
Estimated Number of Awards: 3
Summary
Intends to promote a new initiative by publishing a Request for Applications (RFA) to solicit applications for research that will promote discovery and/or validation of scientific or clinically-relevant hypotheses from secondary analysis of existing clinical datasets and samples, sourced from two or more multi-site clinical studies (i.e., clinical trials, natural history studies, comparative effectiveness studies).

Link: NOT-NS-19-071

National Institutes of Health
Notice of Intent: STIMULATE-2 (R61/R33 – Clinical Trial Required)
Funding Opportunity Number: NOT-HL-19-715
Application Deadline: May 01, 2020
Estimated Maximum Total Value: $3,685,000
Maximum Total Value Per Award: $737,000
Estimated Number of Awards: 5

Summary
to invite applications for single-site, biphasic, late-stage translation (T4) research projects which will identify and test pragmatic and sustainable multi-level implementation strategies that will increase the use of evidence-based guidelines and/or proven effective interventions for preventing and/or managing heart, lung, blood diseases and/or sleep (HLBS) disorders.

Link: NOT-HL-19-715

National Institutes of Health
Notice of Intent: Early Liver Transplantation Cohort Study (U10 - Clinical Trial Optional)
Funding Opportunity Number: NOT-AA-19-025
Application Deadline: Feb 01, 2020
Estimated Maximum Total Value: $3,000,000
Maximum Total Value Per Award: $250,000
Estimated Number of Awards: 8

Summary
The National Institute on Alcohol Abuse and Alcoholism (NIAAA) intends to promote a new initiative by publishing a Funding Opportunity Announcement (FOA) to solicit applications for collaborative research projects (U10) to conduct observational clinical studies in patients with severe forms of alcohol-associated liver disease (AALD) undergoing Early Liver Transplantation (ELT)

Link: NOT-AA-19-026

National Institutes of Health
Notice of Intent: Impact of Alcohol on the Onset and Progression of Alzheimer’s Disease and Its Related Dementias (R01 - Clinical Trial Optional)
Funding Opportunity Number: NOT-AA-19-026
Application Deadline: Apr 01, 2020
Estimated Maximum Total Value: $3,000,000
Maximum Total Value Per Award: $250,000
Estimated Number of Awards: 8

Summary
National Institute on Alcohol Abuse and Alcoholism (NIAAA) in partnership with the National Institute on Aging (NIA) intends to promote a new initiative by publishing a Funding Opportunity Announcement (FOA) to solicit applications to investigate mechanisms underlying the influence of alcohol on the onset and progression of Alzheimer’s disease and its related dementias.

Link: NOT-AA-19-026

National Institutes of Health/ National Institute on Aging
Small Research Grant Program for the Next Generation of Clinical Researchers in AD/ADRD Research: Area of Focus Basic Science (R03 Clinical Trials Not Allowed)
Funding Opportunity Number: PAS-19-392
Application Deadline:  Nov 16, 2022
Estimated Maximum Total Value: $1,800,000
Maximum Total Value Per Award: $100,000
Estimated Number of Awards: 12

Summary
Will support important and innovative projects focused on basic science approaches to elucidate neurodegenerative mechanisms/pathways of Alzheimer’s disease and Alzheimer’s disease-related dementias (AD/ADRD). Proposed projects should ultimately aim to improve the prevention, diagnosis, treatment, and/or care for individuals with AD/ADRD

Link: PAS-19-392

National Institutes of Health/ National Institute of Neurological Disorders and Stroke
Pediatric HIV/AIDS Cohort Study (PHACS) 2020 (P01 Clinical Trial Not Allowed)
Funding Opportunity Number: RFA-HD-20-002
Application Deadline:  Dec 05, 2019
Maximum Total Value Per Award: $12,000,000

Summary
The purpose of this FOA is to continue support for the Pediatric HIV/AIDS Cohort Study (PHACS) as a Program Project which addresses the clinical course of perinatally acquired HIV infection in adolescents and young adults and the oral and systemic health consequences of in utero and infant exposure to antiretroviral therapy in cohorts of children in the United States.

Link: RFA-HD-20-002

International
Department of State/ U.S. Mission to China
U.S. Consulate General HK, PAS Annual Program Statement
Funding Opportunity Number: HKG-NOFO-FY20-01
Application Deadline: Sep 15, 2020
Estimated Maximum Total Value: $400,000
Maximum Total Value Per Award: $10,000
Estimated Number of Awards: 50

Summary
This annual notice of funding opportunities outlines our funding priorities and areas of interest, as well as procedures for submitting requests for funding

Link: HKG-NOFO-FY20-01

Education, Community, Arts
Environmental Protection Agency
17TH ANNUAL P3 AWARDS: A NATIONAL STUDENT DESIGN COMPETITION FOCUSING ON PEOPLE, PROSPERITY AND THE PLANET
Funding Opportunity Number: EPA-G2020-P3-Q1
Application Deadline: Nov 19, 2019
Estimated Maximum Total Value: $800,000
Maximum Total Value Per Award: $25,000
Estimated Number of Awards: 20

Summary
Is seeking applications proposing to research, develop, design, and demonstrate solutions to real world challenges. The P3 competition highlights the use of scientific principles in creating innovative technology-based projects that achieve the mutual goals of improved quality of life, economic prosperity and protection of the planet – people, prosperity, and the planet.

Link: EPA-G2020-P3-Q1

NOTICES

National Science Foundation
Frequently Asked Questions (FAQs) for NSF 19-587, Advanced Computing Systems and Services

Defense Advanced Research Projects Agency
Proposers Day  Nucleic Acids On-Demand Worldwide (NOW)
Solicitation Number: DARPA-SN-20-04

The Biological Technologies Office (BTO) of the Defense Advanced Research Projects Agency (DARPA) is sponsoring a Proposers Day for the planned proposer community in support of the Nucleic Acids On-Demand Worldwide (NOW) program. The Proposers Day will be held on October 28, 2019
The goal of the NOW program is to develop a mobile medical countermeasure (MCM) manufacturing platform for use in stabilization and humanitarian operations to rapidly produce, formulate, and package hundreds of doses of nucleic acid therapeutics (DNA and/or RNA). In order for an adaptable nucleic acid manufacturing platform to rapidly develop and deploy pure, sequence-accurate MCMs in days instead of months to years, new fundamental biochemical or chemical synthesis methods are needed.

Antibacterial Drug Resistance
FDA, IDSA, NIAID, and Pew Institute will host a workshop, Enhancing the Clinical Trial Enterprise for Antibacterial Drug Development to bring together subject matter experts in the fields of infectious diseases (ID), academics and industry and other government bodies to better understand the current state of U.S.-based ID trials and how to enhance enrollment and research in such trials. To be held on November 18-19, 2019, Participants may indicate if they wish to present during a public comment session or participate in a specific session, and identify which topic(s) they wish to address. The meeting will also be webcast. Register by November 14, 2019.

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