The University of Maine
DigitalCommons@UMaine

University of Maine System Announcements University of Maine System Communications

4-2-2020

UMS_COVID-19 Announcements_COVID-19 Related Grant Opportunities

University of Maine System

Follow this and additional works at: https://digitalcommons.library.umaine.edu/c19_announcements

Part of the Higher Education Commons, History Commons, and the Medicine and Health Sciences Commons

This Webpage is brought to you for free and open access by DigitalCommons@UMaine. It has been accepted for inclusion in University of Maine System Announcements by an authorized administrator of DigitalCommons@UMaine. For more information, please contact um.library.technical.services@maine.edu.

Funding Opportunities

GRANT FUNDING OPPORTUNITIES - UPDATED APRIL 2ND, 2020

SITEMAP

Grant Funding Opportunities - Updated April 2nd, 2020

Navigation:
COVID-19 opportunities ◆ Opportunities with upcoming deadlines ◆ Opportunities with rolling deadlines ◆ Foundations to be aware of ◆ Agency notices

Welcome to Office of Research Development's funding opportunity site! This space is internal to the UMaine research community, and updated weekly with a curated list of grant solicitations. Postings include funding opportunities that are relevant to UMaine's Signature and Emerging Areas.

Click here for Office of Research Development staff contact information.

Important: All Principal Investigators are required to notify the Office of Research Administration (ORA) of upcoming proposal submissions by completing a Notice of Intent to Submit a Proposal form through PARS. This form must be submitted through the lead PI's PARS account.

COVID-19 Related Opportunities

NIH Notices of Special Interest:

National Institute of Allergy and Infectious Diseases (NIAID):

Notice of Special Interest (NOSI) regarding the Availability of Emergency Competitive Revisions for Research on Severe Acute Respiratory Syndrome: **Proposal window open now—current expiration date is March 25th, 2021.** NIAID is issuing this Notice of Special Interest (NOSI) to highlight the need for research on Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and Coronavirus Disease 2019 (COVID-19). NIAID is particularly interested in projects focusing on viral natural history, pathogenicity, transmission, as well as projects developing medical countermeasures and suitable animal models for pre-clinical testing of vaccines and therapeutics against SARS-CoV-2/COVID-19. NIAID is therefore offering Competitive Revisions to active NIAID grants addressing research objectives described (see link above).

Notice of Special Interest (NOSI) regarding the Availability of Urgent Competitive Revisions for Research on the 2019 Novel Coronavirus (2019-nCoV): **Proposal window open now-- Expires April 8th.** NIAID and NIGMS are offering Competitive Revisions to active grants addressing research objectives described (see link above). NIAID is particularly interested in projects focusing on viral natural history, pathogenicity, transmission, as well as projects developing medical countermeasures and suitable animal models for pre-clinical testing of vaccines and therapeutics against 2019-nCoV.

National Institute of General Medical Sciences (NIGMS):

Notice of Special Interest (NOSI) regarding the Availability of Urgent Competitive Revisions for Research on the 2019 Novel Coronavirus (2019-nCoV): **Proposal window open now-- Expires April 8th.** NIAID and NIGMS are offering Competitive Revisions to active grants addressing research objectives described (see link above). NIGMS is specifically interested in incorporation of data from the 2019-nCoV into ongoing research efforts to develop predictive models for the spread of Coronaviruses and related pathogens.

Notice of Special Interest (NOSI) regarding the Availability of Urgent Competitive Revisions for Research on Coronavirus Disease 2019 (COVID-19) and the Causative Virus SARS-CoV-2: **Proposal window open now—current expiration date is February 6th, 2021.** NIGMS will accept the submission of applications for Competitive Revisions to active grants to address only the following research areas of interest: 1) Incorporation of data related to SARS-CoV-2 into ongoing research efforts to develop predictive models for the spread of SARS-CoV-2 and other related infectious agents (all relevant grants) 2) Repurposing or modification of diagnostic tools currently under development to enable rapid detection of SARS-CoV-2 infection (SBIR/STTR grants only). 3) Rapid development of potential therapeutic agents for COVID-19 (SBIR/STTR only).

National Heart, Lung, and Blood Institute (NHLBI):

Notice of Special Interest (NOSI): Availability of Administrative Supplements and Revision Supplements on Coronavirus Disease 2019 (COVID-19): **Proposal window open now—current expiration date is October 6th, 2020.** NHLBI is issuing this Notice of Special Interest (NOSI) to highlight the urgent need for research on Coronavirus Disease 2019 (COVID-19) and on biological effects of its causative agent, the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The NHLBI encourages the submission of applications for Administrative Supplements and Competitive Revisions to active NHLBI grants to support research on SARS-CoV-2 and HLB COVID-19 disease. Topics of specific interest to NHLBI include host response, associations with heart, lung, and blood (HLB) diseases, potential impacts on transfusion safety, and clinical outcomes of infected individuals.

National Institute on Drug Abuse (NIDA):

Notice of Special Interest (NOSI) regarding the Availability of Administrative Supplements and Urgent Competitive Revisions for Research on the 2019 Novel Coronavirus: **Proposal window open now—current expiration date is March 31st, 2021.** NIDA is issuing this Notice of Special Interest (NOSI) to highlight the urgent need for research on the 2019 Novel Coronavirus (2019-nCoV, also known as COVID-19). NIDA is especially interested in research collecting and examining data on the risks and outcomes for COVID-19 infection in individuals suffering from substance use disorders.NIDA is encouraging the submission of applications for Competitive Revisions to active grants to address the following research areas of interest (see link above).

NSF Dear Colleague Letters:

NSF Dear Colleague Letter on the Coronavirus Disease 2019 (COVID-19):

Due Date: Rolling

Funding: $200,000

Research Areas: COVID-19 relevant research

Synopsis: NSF encourages the research community to respond to this challenge through existing funding opportunities. In addition, we invite researchers to use the Rapid Response Research (RAPID) funding mechanism, which allows NSF to receive and review proposals having a severe urgency with regard to availability of or access to data, facilities or specialized equipment as well as quick-response research on natural or anthropogenic disasters and similar unanticipated events. Requests for RAPID proposals may be for up to $200,000 and up to one year in duration. Well-justified proposals that exceed these limits may be entertained. All questions should be directed either to a program officer managing an NSF program with which the research would be aligned or to rapid-covid19@nsf.gov.

NSF Dear Colleague Letter: Provisioning Advanced Cyberinfrastructure to Further Research on the Coronavirus Disease 2019 (COVID-19):

Due Date: Rolling

Funding: $200,000

Research Areas: data and software infrastructure

Synopsis: Through this DCL, the Office of Advanced Cyberinfrastructure within the Directorate for Computer and Information Science and Engineering is inviting RAPID proposals and supplemental funding requests to existing awards that address COVID-19 challenges through data and/or software infrastructure development activities. Such activities would be funded by the Computational and Data-Enabled Science and Engineering program or the Cyberinfrastructure for Sustained Scientific Innovation program. Proposals in response to this DCL and the NSF DCL on COVID-19 (NSF 20-052) may also request the use of NSF-funded advanced computing resources such as Frontera, Stampede2, Bridges, Comet, and JetStream. To ensure availability of these computing resources, investigators must contact OAC prior to submission of the proposal.

Other COVID-19 Notices and Opportunities:

HHS Biomedical Advanced Research and Development Authority (BARDA) Broad Agency Announcement (BAA): Academic institutions are eligible to apply; the deadline is October 31, 2020. Specific grant size limitations are not mentioned. The BAA reads: “BARDA is investing in an array of medical countermeasures to diagnose, treat, or protect against the 2019 novel coronavirus under the BARDA Broad Agency Announcement. Specifically, BARDA is pursuing the following products or technologies: Diagnostic assays for human pan-coronaviruses; Point-of-Care diagnostic assays for SARS-CoV-2 virus; Diagnostic assay to detect COVID-19 disease; Nonclinical model; Vaccines for novel coronavirus; Therapeutics for novel coronavirus; Ventilators; Immunomodulators or therapeutics targeting lung repair; Pre-exposure and post-exposure prophylaxis for novel coronavirus exposure; Respiratory protective devices; and Advanced Manufacturing Technologies.”

HHS Biomedical Advanced Research and Development Authority (BARDA) Novel Coronavirus EZ-BAA: Academic institutions are eligible to apply; the deadline is rolling until 2023. Specific grant size limitations are not mentioned. The BAA reads: “To spur innovation, BARDA has issued its business-friendly, streamlined Easy Broad Agency Announcement (EZ-BAA) to support a number of new medical countermeasures to fight the COVID-19 outbreak. Under the EZ-BAA, BARDA is looking for: Molecular diagnostic assay for SARS-CoV-2 virus on existing FDA-cleared platform; Point-of-care diagnostic assay for detection of SARS-CoV-2 virus; Diagnostic assay for detection of COVID-19 disease; Nonclinical model development and screening for SARS-CoV-2 virus; Alternate vaccine delivery/administration and adjuvants; and advanced manufacturing technologies.”

American Heart Association : Rapid Response Grant COVID-19 and Its Cardiovascular Impact
Due at 4/6/2020, 5pm. The American Heart Association (AHA) invites cardiovascular-focused applications that will contribute to understanding the cardiovascular and cerebrovascular pathogenesis, diagnosis, prevention, clinical manifestations, clinical management (including critical care management) and social behaviors which can lead to dissemination, containment, and complications of COVID-19. Because of the urgency of this issue, innovative, highly impactful short-term proposals (9-12 months), which can show progress within the period of this award, are sought. Grants can be up to $100,000.

Opportunities with Upcoming Deadlines

NOAA Addressing Economic and Market Needs of the U.S. Aquaculture Industry Department of Commerce

Due Date: 4/22/2020

Funding: $1,000,000 award ceiling

Research Areas: aquaculture, commerce

Synopsis: Subject to the availability of funding, Sea Grant anticipates approximately $5,000,000 will be available for research projects and programs that will significantly advance the understanding of the economics of aquaculture businesses in the U.S. and address gaps regarding important market information. The overall goal is to advance business management towards development of a sustainable marine and Great Lakes aquaculture industry in the U.S. Successful proposals will address geographic and/or topical needs and will fully integrate research, extension, and education. Proposals that will support broad, non-proprietary research to address critical gaps with respect to aquaculture economics and market needs; make that information available to U.S. aquaculture businesses and management agencies; and build the capacity of Sea Grant and its partners, including Sea Grant aquaculture extension personnel and industry stakeholders, are preferred. These investments are consistent with Sea Grant's focus area of Sustainable Fisheries and Aquaculture (SFA) and the Sea Grant Network's 10-year Aquaculture Vision, both which support NOAA and Department of Commerce aquaculture goals.

DHHS: Telehealth Focused Rural Health Research Center Program

Due Date: 5/1/2020

Funding: $950,000

Research Areas: telehealth, rural health

Synopsis: The purpose of the evaluation-focused TF RHRC is to conduct and maintain a thorough and comprehensive evaluation of nationwide telehealth investments in rural areas and populations. This comprehensive evaluation will explore the impact of telehealth investments on rural areas and populations, to include an assessment of access, cost, experience, and effectiveness for patients and providers. This research will assist decision-makers at the federal, state and local levels by examining the impact of investments of telehealth services in rural communities on access to health care, population health/health indicators, health care spending (both for payers and for the patients receiving the services), quality of care, value based care, workforce, business strategy, and clinical delivery of care. By evaluating the impact of investments in rural telehealth services, the evaluation-focused TF RHRC will directly inform improvements in health care access and population health for rural America.

National Science Foundation EPSCoR Research Infrastructure Improvement Track 4: EPSCoR Research Fellows

Due Date: 5/12/2020

Funding: $300,000
Research Areas: research infrastructure
Synopsis: The Established Program to Stimulate Competitive Research (EPSCoR) is designed to fulfill the mandate of the National Science Foundation (NSF) to promote scientific progress nationwide. EPSCoR jurisdictions that are eligible for RII competitions are listed in the RII Eligibility table, which can be found here. Through this program, NSF establishes partnerships with government, higher education, and industry that are designed to effect sustainable improvements in a jurisdiction's research infrastructure, Research and Development (R&D) capacity, and hence, its R&D competitiveness. One of the strategic goals of the EPSCoR program is to establish sustainable Science, Technology, Engineering, and Mathematics (STEM) professional development pathways that advance STEM workforce development.

Department of Defense: FISCAL YEAR 2021 DEFENSE UNIVERSITY INSTRUMENTATION PROGRAM (DURIP)

Due Date: 5/15/2020
Funding: unspecified
Research Areas: science and technology
Synopsis: This announcement seeks proposals from universities to purchase equipment and instrumentation in support of research in areas of interest to the DoD. DoD interests include the areas of research supported by the Army Research Office (ARO), the Office of Naval Research (ONR), and the Air Force Office of Scientific Research (AFOSR), hereafter generally referred to collectively as "we," "our," "us," or "administering agency." We use "administering agency" to provide a generic reference to any of the administering agencies. A central purpose of the DURIP is to provide equipment and instrumentation to enhance research related education in areas of interest and priority to the DoD. Therefore, your proposal must address the impact of the equipment or instrumentation on your institution's ability to educate students through research in disciplines important to DoD missions.

HHS/ Administration for Children and Families OPRE Family Strengthening Scholars

Due Date: 5/29/2020
Funding: $25,000
Research Areas: income security and social services
Synopsis: These grants are intended to address issues of significance to inform policy decisions and solutions, particularly for underserved/understudied populations (e.g., low-income families, minority populations), utilize rigorous research methodology (including primary data collection and/or secondary data analysis), and help inform the development of future intervention research.

EHR Core Research (ECR): Building Capacity in STEM Education Research

Due Date: 6/5/2020
Funding: unspecified
Research Areas: science, technology, research and development
Synopsis: 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. ECR: BCSER seeks to fund research career development activities on topics that are relevant to qualitative and quantitative research methods and design, including the collection and analysisof new qualitative or quantitative data, secondary analyses using extant datasets, or meta-analyses. This career development may be accomplished through investigator-initiated projects or through professional development institutes that enable researchers to integrate methodological strategies with theoretical and practical substantive issues in STEM education.

National Institutes of Health/ National Institute on Aging Leadership Award for Alzheimer's Disease and Related Dementias Research (R35 Clinical Trial Not Allowed)

Due Date: 6/19/2020
Funding: $600,000
Research Areas: Alzheimer's disease, dementia research
Synopsis: Applicants will be supported to develop and implement innovative multidisciplinary research and mentoring programs through an interchange of ideas that enable individuals and their institutions to strengthen existing programs and the development of new research programs that are specific to the goals/milestones of the NIH Alzheimer's Disease and Alzheimer's Disease Related Dementias Summits.

National Institutes of Health: Novel Synthetic Nucleic Acid Technology Development (R21)

Due Date: 6/24/2020 is earliest date; click above for more
Funding: $400,000 award ceiling
Research Areas: genomics, biomedical research, nucleic acid
Synopsis: This Funding Opportunity Announcement (FOA) solicits R21 grant applications to develop novel technologies that will enable no less than one order of magnitude improvement in synthesis throughput and capabilities for synthetic nucleic acid constructs. Advances in genomics and more broadly in biomedical research have been greatly facilitated by significant and sustained synthetic nucleic acid increased throughput and capabilities combined with significant cost decreases. The goal now is to improve the quality and efficiency of nucleic acid synthesis and synthetic constructs (e.g., longer oligonucleotides and constructs, faster turn-around times, greater accuracy, additional and less expensive modified nucleotides, multiplexing, higher-throughput, etc.) at lower costs per base with the anticipation that significant advances in any of these and related areas would make substantial contributions to the mission of NHGRI and the field of genomics, including NHGRI's other technology development goals.

Department of Defense: YOUNG INVESTIGATOR RESEARCH PROGRAM (YIP)

Due Date: 7/14/2020
Funding: $450,000 over three years
Research Areas: engineering
Synopsis: The Air Force YIP supports scientists and engineers who have received Ph.D. or equivalent degrees within the last seven years and show exceptional ability and promise for conducting basic research. The objectives of this program are:

1.to foster creative basic research in science and engineering;
2. enhance early career development of outstanding young investigators;
3. and increase opportunities for the young investigator to recognize the Air Force mission and related challenges in science and engineering.

HHS/ National Institute of Neurological Disorders and Stroke Discovery of Biomarkers and Biomarker Signatures for Neurological and Neuromuscular Disorders (R61/R33 Clinical Trial Optional)

Due Date: 7/20/2020 (LOI due 30 days before due dates) - click for more dates
Funding: unspecified
Research Areas: neurological disorders, neuromuscular disorders
Synopsis: To promote the discovery and/or early evaluation of strong candidate biomarkers and biomarker

signatures that can be used as tools to facilitate the clinical development of neurotherapeutics and their use in clinical practice. Specifically, the focus of this FOA is on the identification and initial biological, analytical and clinical evaluation of biomarkers and biomarker signatures for neurological and neuromuscular disorders/diseases. Although research supported by this FOA can include animal studies, it must also include preliminary human evaluation using carefully standardized human samples or datasets. The goal of this initiative is to deliver candidate biomarkers or biomarker signatures that are ready for definitive analytical and clinical validation studies.

DoD CDMRP Peer Reviewed Medical Research Program Focused Program Award

Due Date: 8/6/2020
Funding: not specified
Research Areas: medical research, military
Synopsis: The PRMRP Focused Program Award mechanism is intended to optimize research and accelerate solutions to a critical question related to at least one of the Congressionally directed FY20 PRMRP Topic Areas through a synergistic, multidisciplinary research program.

National Science Foundation: ADVANCE: Organizational Change for Gender Equity in STEM Academic Professions

Due Date: 8/7/2020
Funding: $3,000,000 award ceiling
Research Areas: gender equity, research and development
Synopsis: In this solicitation, the NSF ADVANCE program seeks to build on prior NSF ADVANCE work and other research and literature concerning gender, racial, and ethnic equity. The NSF ADVANCE program goal is to broaden the implementation of evidence-based systemic change strategies that promote equity for STEM2 faculty in academic workplaces and the academic profession.

National Science Foundation: Human-Environment and Geographical Sciences Program

Due Date: 8/18/2020
Funding: unspecified
Research Areas: geography, environmental science, human activity
Synopsis: The primary objective of the Human-Environment and Geographical Sciences (HEGS) Program is to support basic scientific research about the nature,
causes, and consequences of the spatial distribution of human activity and/or environmental processes across a range of scales. Projects about a broad
range of topics may be appropriate for support if they enhance fundamental geographical knowledge, concepts, theories, methods, and their application
to societal problems and concerns.

National Science Foundation: Computer and Information Science and Engineering (CISE): Core Programs

Due Date: 9/7/2020 is earliest date (more dates available on RFP for 2020, click title to see more)
Funding: Varies
Research Areas: Computer science, information science, engineering
Synopsis: This solicitation covers submission to the following CISE core programs. Please see the individual program webpages for more information on what is within scope for these programs.

Department of Defense: Fiscal Year (FY) 2021 Department of Defense Multidisciplinary Research Program of the University Research Initiative

Due Date: 9/14/2020
Funding: unspecified
Research Areas: engineering, multidisciplinary, interdisciplinary
Synopsis: The MURI program supports basic research in science and engineering at U.S. institutions of higher education (hereafter referred to as "universities") that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest to the DoD.

HHS/ Food and Drug Administration FDA Support for Conferences and Scientific Meetings (R13 Clinical Trial Not Allowed)

Due Date: 10/13/2020, click link for more due dates
Funding: unspecified
Research Areas: public health
Synopsis: The purpose of the FDA (R13) Scientific Conference Grant Program is to facilitate the provision of federal financial assistance in support of high-quality conferences and scientific meetings designed to research and investigate a topic clearly aligned with the FDA mission. The FDA recognizes the value of supporting high quality conferences and scientific meetings relevant to its mission and to the public health. A conference or scientific meeting is defined as a symposium, seminar, workshop, or any formal meeting, whether conducted face-to-face or virtually to exchange information and explore a defined subject, issue, or area of concern impacting the public's health within the scope of the FDA's mission. Permission to submit a conference grant application does not assure funding or funding at the level requested. FDA will not issue a conference grant award unless it can be issued before the conference start date.

National Institutes of Health/ National Institute of Environmental Health Sciences Research to Action: Assessing and Addressing Community Exposures to Environmental Contaminants (R01 Clinical Trial Optional)

Due Date: 12/4/2020
Funding: unspecified
Research Areas: health, environment
Synopsis: This Funding Opportunity Announcement (FOA) encourages multidisciplinary projects to investigate the potential health risks of environmental exposures of concern to a community and to implement an environmental public health action plan based on research findings.

HHS/ National Institute of General Medical Sciences Centers of Biomedical Research Excellence (COBRE) Phase 1 (P20 - Clinical Trial Optional)

Due Date: Earliest deadline is 1/27/21. Several different dates, click above to view.
Funding: unspecified
Synopsis: The objectives of the COBRE initiative are to strengthen an institution's biomedical research infrastructure through the establishment of a thematic multidisciplinary center and to enhance the ability of investigators to compete independently for NIH individual research grants or other external peer-reviewed support. COBRE awards are supported through the IDeA Program, which aims to foster health-related research by increasing competitiveness of investigators at institutions located in states with historically low aggregate success rates for grant awards from NIH.

National Science Foundation Expeditions in Computing

Due Date: 2/16/2021
Funding: $15,000,000
Research Areas: computing, computer science, information science
Synopsis: More than a decade ago, the National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) established the Expeditions in Computing (Expeditions) program to build on past successes and provide the CISE research and education community with the opportunity to pursue ambitious, fundamental research agendas that promise to define the future of computing and information. In planning Expeditions projects, investigators are strongly encouraged to come together within or across departments or institutions to combine their creative talents in the identification of compelling, transformative research agendas that look ahead by at least a decade and promise disruptive innovations in computer and information science and engineering for many years to come.

HHS/ National Institutes of Health Maximizing the Scientific Value of Existing Biospecimen Collections: Scientific Opportunities for Exploratory Research (R21 Clinical Trial Not Allowed)

Due Date: 3/08/2021
Funding: $1,500,000
Research Areas: public health, tobacco
Synopsis: The purpose of this Funding Opportunity Announcement (FOA) is to invite R21 applications to stimulate exploratory research relevant to the mission of the Food and Drug Administration (FDA) - Center for Tobacco Products (CTP) using existing (publicly available) biospecimens currently stored in repositories in the United States. This will include, but not be limited to, collections associated with the Population Assessment of Tobacco and Health (PATH) Study, the National Health and Nutrition Examination Survey (NHANES), the National Heart, Lung and Blood Institute's (NHLBI) Biologic Specimen and Data Repository Information Coordinating Center (BioLINCC), and the Prostate, Lung, Colorectal and Ovarian (PLCO) Cancer Screening Trial.

HHS/ National Institutes of Health Secondary Analyses of Existing Datasets of Tobacco Use and Health (R21 Clinical Trial Not Allowed)

Due Date: 3/08/2021
Funding: unspecified
Research Areas: data, statistics
Synopsis: The purpose of this Funding Opportunity Announcement (FOA) is to invite R21 applications proposing the innovative analysis of existing (publicly available) nationally representative U.S. cross-sectional and longitudinal data, to investigate novel scientific ideas and/or to generate new models, systems, tools, methods, or technologies that have the potential for significant impact on biomedical or biobehavioral research in areas relevant to the Food and Drug Administration (FDA) - Center for Tobacco Products (CTP). Other publicly available data sets would be considered depending on the analyses to be conducted;

Postdoctoral Research Associate Training (PRAT) Program (Fi2)

Due Date: 10/04/2021
Funding: unspecified
Research Areas: biomedical sciences
Synopsis: To provide high quality postdoctoral research training in the basic biomedical sciences to a diverse group of postdoctoral fellows in NIH Intramural research laboratories, and to prepare them for leadership positions in biomedical careers. Research projects proposed should focus on areas within the NIGMS mission, which include but are not limited to biological chemistry, biophysics, bioinformatics, cellular and molecular biology, computational biosciences, developmental biology, genetics, immunology, neuroscience, pharmacology, physiology, and technology development. In addition to the laboratory experience, the PRAT program provides a structured training environment with extensive career and professional development, mentoring, and networking opportunities planned and supported by the program.

National Institutes of Health/ Sexual & Gender Minority Research Office (SGMRO) The Intersection of Sex and Gender Influences on Health and Disease (R01 Clinical Trial Optional)

Due Date: 11/26/2021
Funding: unspecified
Research Areas: health, disease, gender minority, sexual minority
Synopsis: (1) research applications that examine sex and gender factors and their intersection in understanding health and disease; and (2) research that addresses one of the five objectives from Strategic Goal

Dissemination and Implementation Research in Health (R21 Clinical Trial Optional)

Due Date: 5/7/2022
Funding: $200,000
Research Areas: Behavioral science, public health
Synopsis: To submit research grant applications that will identify, develop, test, evaluate and/or refine strategies to disseminate and implement evidence-based practices (e.g. behavioral interventions; prevention, early detection, diagnostic, treatment and disease management interventions; quality improvement programs) into public health, clinical practice, and community settings. In addition, studies to advance dissemination and implementation research methods and measures are encouraged.

Small Research Grant Program for the Next Generation of Researchers in AD/ADRD Research: Area of Focus Systems Biology (R03 Clinical Trial Not Allowed)

Due Date: 11/16/2022
Funding: $100,000
Research Areas: health
Synopsis: This Small Research Grant (R03) 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. The program seeks (i) to facilitate the next generation of researchers in the United States to pursue research and academic careers in neuroscience, AD/ADRD, and healthy brain aging and (ii) to stimulate established researchers who are not currently doing AD/ADRD research to perform pilot studies toward developing new, innovative AD/ADRD research programs that leverage and build upon their existing expertise. Individuals from underrepresented racial and ethnic groups, as well as individuals with disabilities, are always encouraged to apply for NIH support.

National Institutes of Health/ National Institute of Neurological Disorders and Stroke NINDS Postdoctoral Mentored Career Development Award (K01 No Independent Clinical Trial Allowed)

Due Date: 1/7/2023
Funding: unspecified
Research Areas: postdoctoral research
Synopsis: The purpose of the NINDS Postdoctoral Mentored Career Development Award is to support the ability of

outstanding, mentored postdoctoral researchers to develop a potentially impactful research project with a comprehensive career development plan that will enable them to launch an independent research program

National Institutes of Health/ National Institute of Dental and Craniofacial Research NIDCR Small Research Grants for Analyses of Existing Genomics Data (R03 Clinical Trial Not Allowed)
Due Date: 1/7/2023
Funding: unspecified
Research Areas: health
Synopsis: The purpose of this FOA is to announce support for meritorious research projects that address research questions relevant to human dental, oral, or craniofacial (DOC) conditions or traits through analysis of existing and publicly available genomics data using statistical and computational approaches.

National Institutes of Health/ National Cancer Institute NCI Small Grants Program for Cancer Research for Years 2020, 2021, and 2022 (NCI Omnibus R03 Clinical Trial Optional)
Due Date: 1/7/2023
Funding: $50,000
Research Areas: health, cancer
Synopsis: This funding opportunity announcement (FOA) supports small research projects on cancer that can be carried out in a short period of time with limited resources

Opportunities with Rolling Deadlines

National Science Foundation: Foundational Research in Robotics
Due Date: Anytime (after August 1st, 2020)
Funding: not specified
Synopsis: The Foundational Research in Robotics (Robotics) program supports research on robotic systems that exhibit significant levels of both computational capability and physical complexity. For the purposes of this program, a robot is defined as intelligence embodied in an engineered construct, with the ability to process information, sense, and move within or substantially alter its working environment. Here intelligence includes a broad class of methods that enable a robot to solve problems or make contextually appropriate decisions. Research is welcomed that considers inextricably interwoven questions of intelligence, computation, and embodiment. Projects may also focus on a distinct aspect of intelligence, computation, or embodiment, as long as the proposed research is clearly justified in the context of a class of robots.

National Science Foundation Biosensing
Due Date: Anytime
Funding: $7,600,000
Synopsis: The Biosensing program supports fundamental engineering research on devices and methods for measurement and quantification of biological analytes. Examples of biosensors include, but are not limited to, electrochemical/electrical biosensors, optical biosensors, plasmonic biosensors, and paper-based and nanopore-based biosensors. In addition to advancing biosensor technology development, proposals that address critical needs in biomedical research, public health, food safety, agriculture, forensic, environmental protection, and homeland security are highly encouraged. Proposals that incorporate emerging nanotechnology methods are especially encouraged.

National Science Foundation: Process Systems, Reaction Engineering, and Molecular Thermodynamics
Due Date: Anytime
Funding: $4,900,000
Synopsis: To advance fundamental engineering research on the rates and mechanisms of chemical reactions, systems engineering and molecular thermodynamics as they relate to the design and optimization of chemical reactors and the production of specialized materials that have important impacts on society.

National Science Foundation: Cyberinfrastructure Centers of Excellence
Due Date: Anytime
Funding: $3,000,000
Synopsis: Aims to realize the above vision by supporting hubs of expertise and innovation targeting specific areas, aspects, or stakeholder communities of the research CI ecosystem.

National Science Foundation: Research in the Formation of Engineers
Due Date: Anytime
Funding: unspecified
Synopsis: The goal of the Research in the Formation of Engineers (RFE) program is to advance our understanding of professional formation. It seeks both to deepen our fundamental understanding of the underlying processes and mechanisms that support professional formation and to demonstrate how professional formation is or can be accomplished. Ultimately RFE aims to transform the engineer-formation system, and thus the impact of proposed projects on this system must be described. Principal Investigators (PIs) should provide a roadmap detailing how they envision the proposed research will eventually broadly impact practice within the engineer-formation system, even if these activities are not within the scope of the submitted proposal. In order to accomplish its goals, RFE welcomes proposals in two categories: Research Projects, and Design and Development Projects. Research Projects address fundamental questions of professional formation, while Design and Development Projects provide new approaches to achieving professional formation. Additional details are provided below. Projects in both categories should address the iterative cycle in which research questions that advance understanding are informed by practice and the results of research are, in turn, translated into practice. In other words, proposals should explain how the research results will travel, translate, transfer, or scale. Successful projects identify specific target audiences, effective communication channels, and novel partnerships to ensure effective propagation and scaling.

National Science Foundation Electrochemical Systems
Due Date: Anytime
Funding: $13,093,000
Synopsis: The goal of the Electrochemical Systems program is to support fundamental engineering research that will enable innovative processes involving electro- or photochemistry for the sustainable production of electricity, fuels, and chemicals. Processes for sustainable energy and chemical production must be scalable, environmentally benign, reduce greenhouse gas production, and utilize renewable resources.

National Science Foundation Catalysis
Due Date: Anytime
Funding: $4,800,000
Synopsis: The goals of the Catalysis program are to increase fundamental understanding in catalytic engineering

science and to advance the development of catalytic materials and reactions that are beneficial to society. Research in this program should focus on new concepts for catalytic materials and reactions, utilizing synthetic, theoretical, and experimental approaches.

National Science Foundation Secure and Trustworthy Cyberspace

Due Date: Anytime
Funding: $1,200,000
Synopsis: The RDSP identified six areas critical to successful cybersecurity research and development: (1) scientific foundations; (2) risk management; (3) human aspects; (4) transitioning successful research into practice; (5) workforce development; and (6) enhancing the research infrastructure. The NPRS, which complements the RDSP, identifies a framework for privacy research, anchored in characterizing privacy expectations, understanding privacy violations, engineering privacy-protecting systems, and recovering from privacy violations. In alignment with the objectives in both strategic plans, the SaTC program takes an interdisciplinary, comprehensive and holistic approach to cybersecurity research, development, and education, and encourages the transition of promising research ideas into practice. The SaTC program welcomes proposals that address cybersecurity and privacy, and draw on expertise in one or more of these areas: computing, communication and information sciences; engineering; education; mathematics; statistics; and social, behavioral, and economic sciences.

National Science Foundation: Critical Aspects of Sustainability

Due Date: Anytime
Funding: unspecified
Synopsis: The Critical Aspects of Sustainability (CAS) program includes the Division of Chemistry (CHE) and the Division of Materials Research (DMR) within the Directorate for Mathematical and Physical Sciences (MPS), the Division of Chemical, Bioengineering, Environmental and Transport Systems (CBET) and the Division of Civil, Mechanical and Manufacturing Innovation (CMMI) within the Directorate for Engineering (ENG), and the Division of Earth Sciences (EAR) within the Directorate for Geosciences (GEO).

National Science Foundation: Environmental Sustainability

Due Date: Anytime
Funding: $7,066,000
Synopsis: The goal of the Environmental Sustainability program is to promote sustainable engineered systems that support human well-being and that are also compatible with sustaining natural (environmental) systems. These systems provide ecological services vital for human survival. Research efforts supported by the program typically consider long time horizons and may incorporate contributions from the social sciences and ethics.

National Science Foundation: Biophotonics

Due Date: Anytime
Funding: $6,600,000
Synopsis: The goal of the Biophotonics program is to explore the research frontiers in photonics principles, engineering and technology that are relevant for critical problems in fields of medicine, biology and biotechnology. Fundamental engineering research and innovation in photonics is required to lay the foundations for new technologies beyond those that are mature and ready for application in medical diagnostics and therapies. Advances are needed in nanophotonics, optogenetics, contrast and targeting agents, ultra-thin probes, wide field imaging, and rapid biomarker screening. Low cost and minimally invasive medical diagnostics and therapies are key motivating application goals.

National Science Foundation: Antarctic Research

Due Date: Anytime
Funding: unspecified
Synopsis: The Antarctic Sciences Section (ANT) of the Office of Polar Programs (OPP) supports cutting-edge research that (1) expands fundamental knowledge of the Antarctic and the natural laboratory it represents across a range of disciplines, (2) improves understanding of interactions between the Antarctic and Southern Ocean region and Earth system, and (3) utilizes the unique characteristics of the Antarctic continent as an observing platform.

National Science Foundation: Engineering of Biomedical Systems

Due Date: Anytime
Funding: $10,400,000
Synopsis: The goal of the Engineering of Biomedical Systems (EBMS) program is to provide opportunities for creating fundamental and transformative research projects that integrate engineering and life sciences to solve biomedical problems and serve humanity in the long term. Projects are expected to use an engineering framework (for example, design or modeling) that supports increased understanding of physiological or pathophysiological processes. Projects must include objectives that advance both engineering and biomedical sciences.

Knight Foundation: FUNDING OPPORTUNITY: GOVERNANCE, NORMS AND VALUES – RESEARCH ON THE FUTURE INTERNET

Due Date: LOIs accepted on a rolling basis
Funding: unspecified
Research Areas: humanities, social science, Internet, freedom of speech, censorship, social media
Synopsis: The Foundation seeks to support efforts that advance research – both theoretical and empirical – on topics related to governance and the rights and responsibilities of individuals, commercial interests, nongovernmental organizations, and government in the digital era. The foundation will consider proposals in the areas of research and pedagogy (including course relief to enable faculty research, publication development, collaborative research efforts, research assistant(s), symposia, workshops or other convenings, legal clinics or other innovative pedagogy that engages students in these topics, and data acquisition); faculty; and fellowships (postdoctoral fellows, visiting fellows).

HHS/ National Institute of Environmental Health Sciences Mechanism for Time-Sensitive Research Opportunities in Environmental Health Sciences (R21 Clinical Trial Not Allowed)

Due Date: Rolling
Funding: $200,000
Research Areas: environmental health
Synopsis: To support novel environmental health research in which an unpredictable event or policy change provides a limited window of opportunity to collect human biological samples or environmental exposure data. The primary motivation of the FOA is to understand the consequences of natural and human-made disasters, emerging environmental public health threats, and policy changes in the U.S. and abroad. A distinguishing feature of an appropriate study is the need for rapid review and funding, substantially shorter than the typical NIH grant review/award cycle, for the research question to be addressed and swiftly implemented.

National Science Foundation: Cyberinfrastructure for Emerging Science and Engineering Research

Due Date: Anytime

Funding: unspecified
Research Areas: Engineering, cybersecurity, information science
Synopsis: The CESER program aims to catalyze new science and engineering discovery pathways through early-stage collaborative activities between disciplinary scientists and engineers as well as developers/implementers of innovative cyberinfrastructure (CI) capabilities, services, and approaches. CESER is an inherently collaborative science/engineering-CI program. Before submitting a proposal, proposers must first (1) discuss their ideas with a cognizant CESER Program Officer to ensure that CESER is the appropriate venue and (2) discuss their ideas with the relevant NSF disciplinary science and engineering research program(s) to ensure there is adequate disciplinary interest in the proposed

National Science Foundation Fluid Dynamics

Due Date: Anytime
Funding: $9,175,000
Research Areas: engineering, physics, fluid dynamics
Synopsis: The Fluid Dynamics program is part of the Transport Phenomena cluster, which also includes 1) the Combustion and Fire Systems program; 2) the Particulate and Multiphase Processes program; and 3) the Thermal Transport Processes program. The Fluid Dynamics program supports fundamental research toward gaining an understanding of the physics of various fluid dynamics phenomena. Proposed research should contribute to basic scientific understanding via experiments, theoretical developments, and computational discovery.

National Science Foundation: Division of Environmental Biology

Due Date: Anytime
Funding: $5,000,000
Research Areas: science, technology, research and development
Synopsis: 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). DEB also encourages interdisciplinary proposals that cross conceptual boundaries and integrate over levels of biological organization or across multiple spatial and temporal scales.Research addressing ecology and ecosystem science in the marine biome should be directed to the Biological Oceanography Program in the Division of Ocean Sciences; research addressing evolution and systematics in the marine biome should be directed to the Evolutionary Processes or Systematics and Biodiversity Science programs in DEB.

National Science Foundation: Environmental Engineering

Due Date: Anytime
Funding: $10,000,000
Research Areas: environmental science, pollution
Synopsis: The Environmental Engineering program is part of the Environmental Engineering and Sustainability cluster, which also includes 1) the Nanoscale Interactions program; and 2) the Environmental Sustainability program. Environmental engineering is an interdisciplinary field that applies chemical, biological, and physical scientific principles to protect human and ecological health. The goal of the Environmental Engineering program is to support potentially transformative fundamental research that applies scientific and engineering principles to 1) prevent, minimize, or re-use solid, liquid, and gaseous discharges of pollution to soil, water, and air by closing resource loops or through other measures; 2) mitigate the ecological and human-health impacts of such releases by smart/adaptive /reactive amendments or manipulation of the environment, and 3) remediate polluted environments through engineered chemical, biological, and/or geo-physical processes. Integral to achieving these goals is a fundamental understanding of the transport and biogeochemical reactivity of pollutants in the environment. Therefore, research on environmental micro/biology, environmental chemistry, and environmental geophysics may be relevant providing the research has a clear objective of protecting human and ecological health.

National Science Foundation: Cellular and Biochemical Engineering

Due Date: Anytime
Funding: unspecified
Research Areas: bioprocessing, biomanufacturing, biochemical engineering
Synopsis: The program encourages highly innovative and potentially transformative engineering research leading to novel bioprocessing and biomanufacturing approaches. The CBE program also encourages proposals that effectively integrate knowledge and practices from different disciplines while incorporating ongoing research into educational activities.

National Science Foundation: Disability and Rehabilitation Engineering

Due Date: Anytime
Funding: $4,600,000
Synopsis: The Disability and Rehabilitation Engineering program supports fundamental engineering research that will improve the quality of life of persons with disabilities through: development of new technologies, devices, or software; advancement of knowledge regarding healthy or pathological human motion; or understanding of injury mechanisms. Research may be supported that is directed toward the characterization, restoration, rehabilitation, and/or substitution of human functional ability or cognition, or to the interaction between persons with disabilities and their environment. Areas of particular interest are neuroengineering and rehabilitation robotics. The program will also consider research in the areas of: new engineering approaches to understand healthy or pathological motion, both as a target for rehabilitation and as a means to characterize motion related to disability or injury; understanding injury at the tissue- or system-level such that interventions may be developed to reduce the impact of trauma and subsequent disability; or understanding the role of gut microbiota in modulating disability in the context of rehabilitation.

National Science Foundation Sustained Availability of Biological Infrastructure

Due Date: Anytime
Funding: $5,000,000
Research Areas: cyber technology, biology
Synopsis: The SABI program supports the continued operation of extant infrastructure that will advance basic biological research. It focuses on awards that ensure the continued availability of mature infrastructure resources critical to sustain the ability of today's scientific community to conduct leading edge research. Infrastructure supported may include cyberinfrastructure, instrumentation, experimental or observational facilities, biological living stocks which have ongoing costs of operation and maintenance that exceed the reasonable capacity of the host institution.

National Science Foundation Broadening Participation in Engineering

Due Date: Anytime
Funding: $350,000
Research Areas: engineering, inclusion, sustainability, gender

Synopsis: The BPE program supports the development of a diverse and well-prepared engineering workforce. BPE focuses on enhancing the diversity and inclusion of all underrepresented populations in engineering, including gender identity and expression, race and ethnicity, disability, LGBTQ+, first generation college and socio-economic status. BPE funds research that spans K-12 to workforce and offers the greatest return on investment. BPE funded research should produce outcomes that are scalable, sustainable, and applicable to various contexts, settings, and demographics within the engineering enterprise. BPE is particularly interested in research that employs intersectional approaches in recognition that gender, race and ethnicity do not exist in isolation from each other and from other categories of social identity.

Department of Commerce/National Institute of Standards and Technology Measurement Science and Engineering (MSE) Research Grant Programs
Due Date: 4/30/2020 (Rolling submissions)
Funding: $12,000,000
Research Areas: bioscience, chemistry, dimensional metrology, electronics, engineering, infrastructure, information technology, manufacturing, manufacturing metrology, materials science and engineering, nanotechnology, neutron research, optics, and physics
Synopsis: The ADIIS Grant Program supports activities that develop, expand, strengthen, or sustain NIST partnership programs within the ADIIS Directorate through measurements, standards, data, industry and technology studies, and technology research and development (R&D). Specifically, the ADIIS Grant Program seeks to support technology innovation and service to American industry in the following fields: bioscience, chemistry, dimensional metrology, electronics, engineering, infrastructure, information technology, manufacturing, manufacturing metrology, materials science and engineering, nanotechnology, neutron research, optics, and physics.

Foundations to be aware of

Ford Foundation
Due Date: Rolling
Funding: Unspecified
Research Areas: Policy, Economics, Education
Synopsis: Within the U.S., the following issues are of interest to the Ford Foundation: Democratic and Accountable Government; Human Rights; Gender, Sexuality and Reproductive Justice; Economic Fairness; Metropolitan Opportunity; Educational Opportunity and Scholarship; and Freedom of Expression. Applications are accepted throughout the year; if the Foundation is interested in the inquiry, a program officer will contact the applicant to begin the proposal development process.

Division of Environmental Biology
Due Date: Rolling
Funding: $5,000,000
Research Areas: science, technology, research and development
Synopsis: 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). DEB also encourages interdisciplinary proposals that cross conceptual boundaries and integrate over levels of biological organization or across multiple spatial and temporal scales.Research addressing ecology and ecosystem science in the marine biome should be directed to the Biological Oceanography Program in the Division of Ocean Sciences; research addressing evolution and systematics in the marine biome should be directed to the Evolutionary Processes or Systematics and Biodiversity Science programs in DEB. All DEB programs also encourage proposals that leverage NSF-supported data networks, databases, centers, and other forms of scientific infrastructure, including but not limited to the National Ecological Observatory Network (NEON), Environmental Data Initiative (EDI), and Integrated Digitized Biocollections (iDigBio).

William and Flora Hewlett Foundation
Due Date: Rolling
Funding: Unspecified
Research Areas: Climate Change, Education, Energy Research
Synopsis: Within the Environment Program, the Foundation supports research and projects related to Energy and Climate nationwide. The Foundation works to ensure that energy is produced and used cleanly and efficiently, with limited impacts on human health and the environment, and that global average temperatures increase less than 2°C to avoid the worst effects of climate change. Areas of research interest include clean power, clean transportation, and public engagement. Letters of inquiry are accepted at any time and, if interested, the Foundation will contact the applicant to request a full proposal submission.

Andrew W. Mellon Foundation
Due Date: Rolling
Funding: Unspecified
Research Areas: Higher Education, Humanities
Synopsis: The Foundation provides a large number of grants for projects focused on curriculum development, creation, and reform in the humanities. In addition, graduate and undergraduate student support and postdoctoral fellowships are also provided through this program area. The Foundation seeks to nurture exceptional creative accomplishment, scholarship, and conservation practices in the arts, while promoting a diverse and sustainable ecosystem for these disciplines. The first step to request support from the Foundation is submission of an initial inquiry regarding possibility of support.

John D. and Catherine T. MacArthur Foundation
Due Date: Rolling
Funding: Unspecified
Research Areas: Climate Change, Economics, Education, Policy Research
Synopsis: The goals of MacArthur's grantmaking in policy research include advancing the state of knowledge in specific areas, with outcomes that benefit individuals, families and communities, and society as a whole. The foundation aims to improve decision-making by policymakers at the federal, state and local levels. Institutions are able to submit letters of inquiry to gauge Foundation support.

Alfred P. Sloan Foundation
Due Date: Rolling
Funding: Unspecified
Research Areas: STEM Education, Technology

Synopsis: The Sloan Foundation provides grants to support original research and broad-based education related to science, technology, and economic performance and to improve the quality of American life.
Programs include: Basic Research; STEM Higher Education; Public Understanding of Science, Technology and Economics; Digital Information Technology; and Economic Performance and Quality of Life.

Agency Notices

Dear Colleague Letter: Supplemental Funding Opportunity to Support Student Design Projects Directly Related to NSF Research

NSF will consider supplemental funding requests to support student design projects connected to active NSF grants. The goals of these supplements are the following:

To connect student design projects to innovative, NSF-supported research and the latest advances in engineering science.

To expose students to the discovery process of research while preparing them for their roles in the engineering workforce.

To provide a team of students with the funds necessary to pursue the design process, from need finding, industry and customer discovery, through prototyping and validation.

Dear Colleague Letter: Research Opportunities Related to Coastlines and People (CoPe)

NSF announces their intent to support Research Coordination Networks (RCNs), a select type of Early-Concept Grants for Exploratory Research (EAGER), conferences, and Non-academic Research Internships for Graduate Students (INTERN) supplements that relate to Coastlines and People (CoPe). Through CoPe, NSF is interested in supporting projects to build capacity and explore research focused on understanding the impacts of coastal environmental variability and natural hazards on populated coastal regions. CoPe projects should explore the complex interface between coastal natural processes, geohazards, people and their natural and built environments. CoPe will include coastal variability and hazards on a range of spatial and temporal scales, from local to global and seconds to millenia to put current changes in context of pre-anthropogenic changes.

National Science Foundation Dear Colleague Letter: Research Opportunities for the Directorate for Mathematical and Physical Sciences (MPS) in Artificial Intelligence Research Institutes

This Dear Colleague Letter (DCL) describes opportunities for MPS researchers to participate in the National AI Research Institutes program. There are two tracks described in the Program Solicitation: a Planning Grant track and an Institute Track that has six specific thematic areas. Two of the Institutes Tracks may be of particular interest to researchers working in the fields of Chemistry (CHE) / Chemical, Bioengineering, Environmental and Transport Systems (CBET) and Physics: AI for Accelerating Molecular Synthesis and Manufacturing and AI for Discovery in Physics