

## ARTS, HUMANITIES, and INTERNATIONAL

Fulbright-Hays Doctoral Dissertation Research Abroad Fellowship Program  
Department of Education (Education), Office of Postsecondary Education (OPE)

Notice seeking applications to support projects that allow doctoral candidates to engage in dissertation research abroad in modern foreign languages and area studies.

Applications are due February 18, 2020. Approximately 100 awards ranging from \$15,000 to \$60,000 are available.

LINKS: [Grants.gov](#), [Federal Register](#), [Agency Site](#)

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Fulbright-Hays Group Projects Abroad Program  
Department of Education (Education), Office of Postsecondary Education (OPE)

Notice seeking applications for faculty, teachers, and undergraduate and graduate students to conduct short or long-term individual and group projects overseas to carry out research and study in the fields of modern foreign languages and area studies. Short-term project types include seminar projects, curriculum development projects, and group research or study projects. Long-term projects are advanced overseas intensive language projects that may be carried out during a full year, an academic year, a semester, a trimester, a quarter, or a summer.

Applications are due February 18, 2020. Approximately 25 awards ranging from \$50,000 to \$250,000 are available.

Limited Submission: One application per institution and must determine if short-term or long-term.

LINKS: [Grants.gov \(Long-term Projects\)](#), [Grants.gov \(Short-term Projects\)](#), [Federal Register](#)

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Comprehensive in School Democracy and Human Rights Education Program  
Department of State (State), U.S. Mission to Bosnia and Herzegovina (BiH)

Notice seeking proposals to help educate young BiH students in kindergartens, elementary schools and secondary schools, and some universities about the basic concepts of democratic society, justice, human rights, tolerance, the BiH constitution, and the various levels of government in the country.

Applications are due February 21, 2020. Approximately \$450,000 is available to one or more awards. Cost sharing is encouraged.

LINKS: [Grants.gov](#)

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Democracy Commission Small Grants  
Department of State (State)

Notice seeking applications to enable embassies to support local democratic initiatives in the countries of Central, Eastern Europe, and the post-Soviet States.

Applications are due March 17, 2020. Approximately \$450,000 is available for up to 15 awards.

LINKS: [Grants.gov](#)

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U.S. Embassy Nouakchott, PAS Request for Statements of Interest: Annual Program Statement  
Department of State (State), U.S. Mission to Mauritania

Notice inviting SOIs for programs that strengthen cultural ties between the U.S. and Mauritania through cultural programming that highlights shared values and promotes bilateral cooperation. All programs must include an American cultural element, or connection with American expert/s, organization/s, or institution/s in a specific field that will promote increased understanding of U.S. policy and perspectives.

Statements of interest are due June 19, 2020. Full applications are by invitation only. Awards are up to \$70,000.

LINKS: [Grants.gov](#), [Agency Site](#)

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U.S. Embassy Santo Domingo – Public Diplomacy Annual Program Statement  
Department of State (State), U.S. Mission to the Dominican Republic

Notice seeking proposals for Public Diplomacy (PD) programs that strengthen cultural, educational, professional, and scientific ties between the U.S. and the Dominican Republic through programming that highlights shared values and promotes bilateral cooperation. All PD programs must include an American element, a nexus or connection with American expert/s, organization/s, or institution/s in a specific field that will promote increased understanding of U.S. policy and perspectives.

Applications are due August 15, 2020. The maximum for each award is \$200,000. Cost sharing is preferred.

LINKS: [Grants.gov](#), [Solicitation](#)

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Western Kenya Water, Sanitation and Hygiene Activity  
United States Agency for International Development (USAID), Kenya USAID-Nairobi

Notice seeking information from the market in an effort to determine the scope of industry capabilities and interest in improving water, sanitation services in Western Kenya.

Responses are due January 24, 2020.

LINKS: [Grants.gov](#)

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## **EDUCATION and ECONOMIC & COMMUNITY DEVELOPMENT**

Agriculture and Food Research Initiative - Foundational and Applied Science  
National Institute of Food and Agriculture (NIFA), United States Department of Agriculture (USDA)

Notice seeking applications to advance knowledge in both fundamental and applied sciences important to agriculture within six priority areas: 1) Plant Health and Production and Plant Products; 2) Animal Health and Production and Animal Products; 3) Food Safety, Nutrition, and Health; 4) Bioenergy, Natural Resources, and Environment; 5) Agriculture Systems and Technology; and 6) Agriculture Economics and Rural Communities.

LOI's due dates vary by program: Agricultural Innovation through Gene Editing due February 19, 2020; Agricultural Microbiomes and Tactical Sciences for Agricultural Biosecurity due March 10, 2020; and all Conference Grant LOI's are due at least 135 days before the conference date. Most applications are due November 18, 2020. Review RFP carefully for specific program deadline. Institutions noted on the "Most Successful Universities and Colleges Receiving Federals Funds" List are ineligible for Strengthening Grants from the FASE program unless they are located in an EPSCoR state.

LINKS: [Grants.gov](#), [Solicitation](#)

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FY 2020 Beginning Farmer & Rancher Development Program  
National Institute of Food and Agriculture (NIFA), United States Department of Agriculture (USDA)

Notice seeking applications to support the delivery of education, mentoring, and technical assistance programs to help beginning farmers and ranchers in the United States (U.S.) and its territories with entering, establishing, building and managing successful farm and ranch enterprises.

Applications are due February 13, 2020. Approximately \$14 million is available. Cost sharing is required.

LINKS: [Grants.gov](#), [Solicitation](#)

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FY2020 Trash-Free Great Lakes Grant Program - Trash Removal from Great Lakes Rivermouths and Harbors  
Environmental Protection Agency (EPA)

Notice seeking applications for trash removal projects which include the use of devices/machinery to remove trash from Great Lakes rivermouths and harbors.

Applications are due February 14, 2020. Approximately \$1 million is available to support three awards.

LINKS: [Grants.gov](#), [Solicitation](#)

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FY2020 Trash-Free Great Lakes Grant Program - Trash Removal in Great Lakes Communities  
Environmental Protection Agency (EPA)

Notice seeking applications for trash removal projects at beaches and other recreation areas, shorelines, coastal wetlands, harbors, river mouths and riparian corridors immediately adjacent to the Great Lakes.

Applications are due February 14, 2020. Approximately \$1 million is available to support 10 awards.

LINKS: [Grants.gov](#), [Solicitation](#)

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Student Support Services Program  
Department of Education (Education), Office of Postsecondary Education (OPE)

Notice seeking applications to support projects that increase the number of disadvantaged, low-income college students, first-generation college students, and college students with disabilities in the United States who successfully complete a program of study at the postsecondary level. The support services that are provided should increase the retention and graduation rates for these categories of students and facilitate their transfer from two-year to four-year colleges and universities. The support services should also foster an institutional climate that supports the success of students who are limited English proficient, students from groups that are historically underrepresented in postsecondary education, students with disabilities, students who are homeless children and youths, students who are in foster care or are aging out of the foster care system, and other disconnected students. Student support services should also improve the financial and economic literacy of students.

Applications are due January 27, 2020. Approximately 1,069 awards are anticipated with an average award size of \$312,000. Maximum awards vary depending on whether an applicant is currently receiving a Student Support Services grant, the project type (there are six project types) and the number of students served.

LINKS: [Grants.gov](#), [Federal Register](#), [Agency Site](#)

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Tribal Adaptation & Ocean & Coastal Management & Planning

Department of the Interior (Interior), Bureau of Indian Affairs (BIA)

Notice seeking applications to support tribal resilience and ocean and coastal management and planning to address extreme events and harmful environmental trends that impact tribal treaty and trust resources, economies, infrastructure, and human health and safety. There are seven award categories: 1) Trainings and Workshops; 2) Adaptation Planning; 3) Travel Support for Adaptation Planning; 4) Ocean and coastal Management Planning; 5) Travel Support - Ocean & Coastal; 6) Capacity Building for Scoping Efforts to Support Future Category 2 Proposal Development; and 7) Planning for Relocation, Managed Retreat, or Protect-in-Place Activities for Coastal and Riverine Communities.

Applications are due March 2, 2020. Approximately 115 awards of up to \$150,000 each (depending on project type) are anticipated. Eligibility is limited to tribal governments and organizations, but opportunities may exist for colleges and universities to collaborate.

LINKS: [Grants.gov](#), [Agency Site](#)

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Youth Engagement, Education, and Employment  
Fish and Wildlife Service (FWS), Department of the Interior (Interior)

Notice seeking applications with the interest and capacity to work cooperatively with the USFWS to develop introductory educational experiences in natural resource careers to young people and veterans, including culturally, ethnically and economically diverse students, and underserved communities that traditionally have low participation in outdoor recreation activities through hands-on experience and mentoring at a variety of USFWS programs including but not limited to, national wildlife refuges, fish hatcheries, and ecological services offices.

Applications are due September 15, 2020. Approximately \$10 million is available. Cost share of 25 percent is required.

LINKS: [Grants.gov](#)

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Agency Information Collection Activities; Comment Request; Foreign Gifts and Contracts Disclosures  
Department of Education (Education), Office of Management and Budget (OMB)

Notice seeking comments on the rule in Section 117 of the Higher Education Act of 1965, as amended, which provides that institutions of higher education must file a disclosure report with the Secretary of Education under the following circumstances: Whenever any institution is owned or controlled by a foreign source or receives a gift from or enters into a contract with a foreign source, the value of which is \$250,000 or more, considered alone or in combination with all other gifts from or contracts with that foreign source within a calendar year, the institution shall file a disclosure report with the Secretary on January 31 or July 31, whichever is sooner.

Comments are due December 27, 2019.

LINKS: [Federal Register](#)

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BJA FY 20 BJA's STOP School Violence Grant Program  
Department of Justice (Justice), Bureau of Justice Assistance (BJA)

Notice seeking proposals to increase school safety by implementing training and school threat assessments and/or intervention teams to identify school violence risks among students; technological solutions such as anonymous reporting technology that can be implemented as a mobile phone-based app, a hotline, or a website in the applicant's geographic area to enable students, teachers, faculty, and community members to anonymously identify threats of school violence; or other school safety strategies that assist in preventing violence.

Applications are due March 3, 2020. Approximately \$10 million is available for up to 20 awards to support projects lasting up to 36 months.

Limited Submission: One application per applicant. However, applicants may be subgrantees of other applicants.

LINKS: [Grants.gov](#), [Solicitation](#)

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Developing Hispanic-Serving Institutions Program CFDA Number 84.031S  
Department of Education (Education), Office of Postsecondary Education (OPE)

Notice seeking applications to assist Hispanic-Serving Institutions (HSIs) to expand educational opportunities for, and improve the academic attainment of, Hispanic students. Programs will expand and enhance the academic offerings, program quality, faculty quality, and institutional stability of colleges and universities that are educating the majority of Hispanic college students and help large numbers of Hispanic students and other low-income individuals complete post-secondary degrees.

Applications are due February 19, 2020. Approximately \$53 million is available for new awards only with an additional 472 million available for renewals to support 96 awards lasting up to 5 years. Competitive preferences are given to: 1) Fostering Flexible and Affordable Paths to Obtaining Knowledge and Skills; and 2) Fostering Knowledge and Promoting the Development of Skills That Prepare Students To Be Informed, Thoughtful, and Productive Individuals and Citizens.

LINKS: [Grants.gov](#), [Federal Register](#)

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Family Support Technical Assistance Center  
Substance Abuse and Mental Health Services Administration (SAMHSA), Department of Health and Human Services (HHS)

Notice seeking applications to focus on training and education of the general public and healthcare practitioners on the importance of family supports and services and the integration of these services into mental and substance use disorder treatment programs.

Applications are due February 28, 2020. Approximately \$800,000 is available.

LINKS: [Grants.gov](#), [Solicitation](#)

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Homeless and Housing Resource Center  
Substance Abuse and Mental Health Services Administration (SAMHSA), Department of Health and Human Services (HHS)

Notice seeking applications to provide training and technical assistance (TTA) to the general public and persons working with individuals who are at risk for, or are experiencing, homelessness. The TTA will specifically address education for practitioners on addressing the needs of individuals who experience homelessness and have serious mental illness (SMI), serious emotional disturbance (SED), substance use disorders (SUD), and/or co-occurring substance use and mental disorders (COD).

Applications are due February 28, 2020. Approximately \$800,000 is available to support one award.

LINKS: [Grants.gov](#), [Solicitation](#)

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National Peer-Run Training and TA Center for Addiction Recovery Peer Support  
Substance Abuse and Mental Health Services Administration (SAMHSA), Department of Health and Human Services (HHS)

Notice seeking applications that TA and training must be provided to recovery community organizations (RCOs), as well as peer support networks. SAMHSA has long acknowledged the value of individuals with lived experience in assisting others in achieving and maintaining recovery from substance use disorders, and this Center will assist in the promotion of peer recovery support activities.

Applications are due February 28, 2020. Approximately \$949,784 is available to support one award up to four years.

LINKS: [Grants.gov](#), [Solicitation](#)

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OR WA Master Youth Conservation Opportunities on Public Lands  
Bureau of Land Management (BLM), Department of the Interior (Interior)

Notice seeking applications to support projects that provide employment for participants and opportunities to learn about and gain work experience in public lands and natural resources management while promoting long-term interest in public lands stewardship and the BLM in Oregon and Washington. Conservation projects must focus on providing employment, education, and public-service opportunities for U.S. citizens and legal residents (between ages 16 and 30 inclusive and veterans up to age 35 inclusive) recruited from local and surrounding communities to assist with projects on public lands.

Applications are accepted on a rolling basis until July 17, 2020. Approximately \$3 million is available for up to 40 awards. Eligibility is limited to any qualified youth conservation corps established by a state or local government, by the governing body of any Indian tribe, or by a qualified non-profit organization interested in working cooperatively with the BLM to develop and administer multiple-use conservation projects.

LINKS: [Grants.gov](#)

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OVW FY 2020 Training and Technical Assistance Initiative  
Office on Violence Against Women (OVW), Department of Justice (Justice)

Notice seeking applications to provide direct technical assistance to existing and potential grantees and sub-grantees to enhance their efforts to successfully implement projects supported by OVW grant funds. There are three categories of technical assistance in FY 2020: Competitive Targeted; Competitive Comprehensive; and Non-Competitive Comprehensive.

Letters of intent are encouraged by January 29, 2020. Applications are due February 26, 2020. Approximately \$24 million is available to support 47 awards.

Limited Submission: one application per organization

LINKS: [Grants.gov](#)

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Meeting of the Federal Advisory Committee on Juvenile Justice  
Department of Justice (Justice), Office of Juvenile Justice and Delinquency Prevention (OJJDP)

Notice announcing a meeting scheduled to discuss programs and issues related to juvenile justice.

The meeting will be held via webinar January 7, 2020, from 1:00 p.m. to 2:00 p.m., ET. Register to attend by January 3, 2020 on the Agency Site.

LINKS: [Federal Register](#)

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National Center for Advancing Translational Sciences; Notice of Meeting  
National Institutes of Health (NIH), Department of Health and Human Services (HHS)



Notice announcing open portion of a meeting of National Center for Advancing Translational Sciences for a report from the Institute Director and other staff.

The meeting will be held on January 16, 2020 from noon to 5:00 p.m. ET. The meeting will be held virtually via WebEx. Individuals can register to view and access the meeting by this link: <https://nih.webex.com/nih/onstage/g.php?MTID=e56b929e2a7d82a92a5e58e040d7d103d>

LINKS: [Federal Register](#)

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Notice of Meeting of the EPA Children's Health Protection Advisory Committee (CHPAC)  
Environmental Protection Agency (EPA)

Notice announcing a meeting of the EPA Children's Health Protection Advisory Committee. The purpose of the meeting is to discuss and finalize CHPAC's risk communication comment letter to the EPA Administrator.

The meeting will be held January 15, 2020 from 10:30 a.m. to 12:00 p.m. ET. This is a teleconference.

LINKS: [Federal Register](#)

## HEALTH and MENTAL HEALTH

Developmental Mechanisms of Human Structural Birth Defects (P01 Clinical Trial Not Allowed)  
National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute of Child Health and Human Development (NICHD)

Notice seeking applications to support innovative, multidisciplinary, interactive, and synergistic program projects that integrate basic, translational, and clinical approaches to understanding the developmental biology and genetic basis of significant congenital human malformations.

Applications are due March 31, 2020. Optional letters of intent are due 30 days before the application deadline. Approximately \$3 million is available for up to three awards to support projects lasting up to five years.

LINKS: [Grants.gov](#), [Solicitation](#)

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Glial Plasticity in the Aging Brain (R01 Clinical Trial Not Allowed)  
National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute on Aging (NIA)

Notice seeking applications to support research addressing critical knowledge gaps in our understanding of how these glial subpopulations could contribute to vulnerability and resilience to brain aging.

Applications are due June 17, 2020. Optional letters of intent are due May 17, 2020. Approximately \$2 million is available to support four to six awards to support projects lasting up to five years.

LINKS: [Grants.gov](#), [Solicitation](#)

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Improving Management of Opioids and Opioid Use Disorder (OUD) in Older Adults (R18)  
Agency for Healthcare Research and Quality (AHRQ), Department of Health and Human Services (HHS)

Notice seeking applications to develop, implement, evaluate, and disseminate strategies to improve the management of opioid use and opioid use disorder (OUD) in older adults in primary care settings, especially in settings with large segments of socially at-risk older adults.

Optional letters of intent are due January 21, 2020. Applications are due February 20, 2020. Up to \$7.5 million is available to support three awards over 3 years.

LINKS: [Grants.gov](#), [Solicitation](#)

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Mechanisms of Rejuvenation and Age-Acceleration in Heterochronic Blood Exchange (R01 Clinical Trial Not Allowed)

National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute on Aging (NIA)

Notice seeking applications to support research on aspects of rejuvenation and accelerated aging observed specifically in heterochronic blood exchange experiments. The objectives are to identify the multiple factors involved, the multiple cell types involved, and the mechanisms underlying rejuvenation or accelerated aging that is observed in the transfer of phenotypes between young and old laboratory animals. It is also anticipated that molecular signatures of rejuvenation or accelerated aging will be obtained from research supported under this program.

Applications are due June 17, 2020. Optional letters of intent are due May 17, 2020. Approximately \$3 million is available for six to eight awards to support projects lasting up to five years.

LINKS: [Grants.gov](#), [Solicitation](#)

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Novel Imaging Approaches for detection of Persistent HIV and Neuroimmune dysfunction associated with HIV In the Central Nervous System (CNS) (R21 Clinical Trial Not Allowed)

National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute of Mental Health (NIMH)

Notice seeking applications to elucidate mechanisms of neuroimmune dysfunction caused by HIV-1 and to detect persistent/latent/reactivated HIV using novel imaging/neuroimaging approaches in the central nervous system in anti-retroviral therapy (ART) suppressed individuals. These studies may involve considerable risk but may lead to a breakthrough or to the development of novel techniques, agents, methods, measures, models, or strategies, or to the generation of pilot or feasibility data.

Optional letters of intent are due February 11, 2020. AIDS applications are due March 11, 2020. Approximately \$2 million is available to support three to five awards.

LINKS: [Grants.gov](#), [Solicitation](#)

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National Cancer Institute; Notice of Meeting

National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice announcing a meeting of the National Cancer Advisory Board to discuss program reports and presentations and other business matters of the Board. The Frederick National Laboratory Advisory Committee to the National Cancer Institute will also meet to discuss ongoing and new activities.

The National Cancer Advisory Board meeting will be held on February 11, 2020 from 1:30 p.m. to 3:30 p.m. ET at the National Cancer Institute Shady Grove, 9609 Medical Center Drive, Room TE406, Rockville, MD 20850 (Virtual Meeting). The Frederick National Laboratory Advisory Committee will meet on February 19, 2020 from 1:00 p.m. to 5:00 p.m. ET at the National Cancer Institute Shady Grove, 9609 Medical Center Drive, Room TE406, Rockville, MD (Virtual Meeting).

LINKS: [Federal Register](#)

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National Institute of Nursing Research; Notice of Meeting



National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice announcing a meeting of the National Advisory Council for Nursing Research to discuss program policies and issues and other business matters.

The meeting will be held January 14, 2019 from 9:00 a.m. to 4:30 p.m. ET at the National Institutes of Health, Building 45, Natcher, 45 Center Drive, Bethesda, MD.

LINKS: [Federal Register](#)

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Notice of Meetings

Agency for Healthcare Research and Quality (AHRQ), Department of Health and Human Services (HHS)

Notice announcing a series of five AHRQ subcommittee meetings.

1. Healthcare Effectiveness & Outcomes Research Meeting (HEOR) will be held on February 12, 2020 (Open to the public from 8:00 a.m. to 8:30 a.m.)
2. Healthcare Safety & Quality Improvement Research Meeting (HSQR) will be held on February 20, 2020 (Open to the public from 7:30 a.m. to 8:00 a.m.)
3. Health System & Value Research Meeting (HSVR) will be held on February 27-28, 2020 (Open to the public from 8:00 a.m. to 8:30 a.m.)
4. Health Care Research & Training Meeting (HCRT) will be held on February 27-28, 2020 (Open to the public from 8:00 a.m. to 8:30 a.m.)
5. Healthcare Information Technology Research (HITR) will be held on February 27-28, 2020 (Open to the public from 8:00 a.m. to 8:30 a.m.)

Meeting locations vary: Bethesda North Marriott Hotel & Conference Center, 5701 Marinelli Road, Bethesda, Maryland 20852, (HEOR, HITR, HCRT, HSVR). Hilton Washington DC/Rockville Hotel & Executive Meeting Center, 1750 Rockville Pike, Rockville, MD 20852, (HSQR).

LINKS: [Federal Register](#)

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Achieving Voluntary Medical Male Circumcision (VMMC) Saturation in Malawi under the President's Emergency Plan for AIDS Relief (PEPFAR)

Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS), Center for Global Health (CGH)

Notice seeking applications to support the Government of Malawi in improving uptake and access to quality VMMC services in CDC-supported districts. The scale-up of the VMMC program at the national level has been slow, and the coverage of VMMC in some of the PEPFAR priority districts is still low.

Applications are due February 27, 2020. Approximately \$8.5 million is available to support one award.

LINKS: [Grants.gov](#)

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Comprehensive Approaches to Sustaining the Health System and HIV Response in the Republic of Mozambique under the President's Emergency Plan for AIDS Relief (PEPFAR)

Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS), Center for Global Health (CGH)

Notice seeking applications to support key interventions for comprehensive HIV response throughout Mozambique, including voluntary medical male circumcision (VMMC), HIV testing and counseling (HTC), infection prevention and control, Tuberculosis/HIV (TB/HIV) integration, gender-based violence (GBV) prevention, and care and support for people living with HIV/AIDS (PLHIV).

Applications are due February 21, 2020. Approximately \$30 million is available to support up to two awards for five years.

LINKS: [Grants.gov](https://www.grants.gov)

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DoD Breast Cancer, Breakthrough Award Level 3  
Army (Army), Department of Defense (Defense), U.S. Army Medical Research Acquisition Activity (USAMRAA)

Notice seeking applications to support promising research that has high potential to lead to or make breakthroughs in breast cancer. Funding Level 3: Advanced translational studies with a high degree of project readiness. Where relevant, proof of availability of and access to necessary data, human samples, cohort(s) and/or critical reagents must be provided. If the proposed research would ultimately require U.S. Food and Drug Administration (FDA) involvement, applications must demonstrate availability of, and access to, clinical reagents (e.g., therapeutic molecules) and patient population(s). Applications must state a realistic timeline for near-term clinical investigation. Small-scale clinical trials (e.g., first in human, Phase I/Ib) may be appropriate.

Required pre-applications are due March 13, 2020. Applications are due June 24, 2020. Approximately \$22.4 million is available to support four awards.

LINKS: [Grants.gov](https://www.grants.gov)

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DoD Breast Cancer, Breakthrough Award Level 4  
Army (Army), Department of Defense (Defense), U.S. Army Medical Research Acquisition Activity (USAMRAA)

Notice seeking applications to support promising research that has high potential to lead to or make breakthroughs in breast cancer. Funding Level 4: Large-scale projects that will transform and revolutionize the clinical management and/or prevention of breast cancer. Human clinical trials are required. PIs are expected to have experience in successfully leading large-scale projects and demonstrated ability (through personal experience or via a commitment from a collaborating clinical investigator) to implement a clinical project successfully.

Required pre-applications are due March 13, 2020. Applications are due June 24, 2020. Approximately \$16 million is available to support one award.

LINKS: [Grants.gov](https://www.grants.gov)

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DoD Breast Cancer, Breakthrough Award Levels 1 and 2  
Army (Army), Department of Defense (Defense), U.S. Army Medical Research Acquisition Activity (USAMRAA)

Notice seeking applications to support promising research that has high potential to lead to or make breakthroughs in breast cancer. Funding Level 1: Innovative, high-risk/high-reward research that is in the earliest stages of idea development or is an untested theory that addresses an important problem. To foster research that yields new avenues of investigation, preliminary data are not required. Proof of concept is the anticipated outcome. Funding Level 2: Preclinical research that is already supported by substantial preliminary or published data and strongly validates clinical translation in a well-defined context within the breast cancer landscape and also with population science and prevention studies.

Required pre-applications are due March 12, 2020. Applications are due March 26, 2020. Approximately \$42.5 million is available to support 29 awards.

LINKS: [Grants.gov](https://www.grants.gov)

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DoD Breast Cancer, Era of Hope Scholar Award  
Army (Army), Department of Defense (Defense), U.S. Army Medical Research Acquisition Activity (USAMRAA)

Notice seeking applications to support individuals early in their careers who have demonstrated significant potential to effect meaningful change in breast cancer. These individuals should be exceptionally talented scientists who have shown that they are the “best and brightest” in their field(s) through extraordinary creativity, vision, innovation, and productivity.

Required pre-applications are due March 12, 2020. Applications are due March 26, 2020. Approximately \$9.6 million is available to support two awards.

LINKS: [Grants.gov](https://www.grants.gov)

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DoD Breast Cancer, Innovator Award  
Army (Army), Department of Defense (Defense), U.S. Army Medical Research Acquisition Activity (USAMRAA)

Notice seeking applications to support visionary individuals who have demonstrated exceptional creativity, innovative work, and paradigm-shifting leadership in any field including, but not limited to, breast cancer. The Innovator Award will provide these individuals with the funding and freedom to pursue their most novel, visionary, high-risk ideas that could accelerate progress to ending breast cancer.

Required pre-applications are due March 13, 2020. Applications are due June 24, 2020. Approximately \$11.2 million is available to support one award.

LINKS: [Grants.gov](https://www.grants.gov)

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HQ Supported Development, Implementation, Use and Evaluation of Interoperable Health Information Systems to Achieve HIV-AIDS and TB Epidemic Control through Improved Health Informatics Policy, Governance, Workforce Capacity, and Systems under PEPFAR  
Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS), Center for Global Health (CGH)

Notice seeking applications to provide TA in health informatics to governments in PEPFAR-supported countries with, but not limited to, access to and use of standard competencies and curriculum to build HIS knowledge and skills; strategy, policy, and governance to guide HIS capacity; access to data exchange models for secure and confidential transmission of patient-level data by host countries; and access to and use of a standard set of validated tools tailored to measure effectiveness and gains in efficiency of HIS and health-related IS to improve and strengthen health system infrastructure.

Applications are due February 21, 2020. Approximately \$20 million is available to support up to two awards for five years.

LINKS: [Grants.gov](https://www.grants.gov)

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Methods and Measurement in Research with Sexual and Gender Minority (SGM) Populations (R21- Clinical Trials Not Allowed)  
National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice seeking applications to support research projects to advance the measurement of constructs relevant to health research with sexual and gender minority (SGM) populations.

Optional letters of intent are due February 12, 2020. Applications are due March 13, 2020. Approximately \$1.9 million is available.

LINKS: [Grants.gov](#), [Solicitation](#)

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Nurse Anesthetist Traineeships (NAT)  
Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS)

Notice seeking applications to support traineeships for licensed RNs enrolled as full-time students in a master's or doctoral nurse anesthesia program.

Applications are due March 6, 2020. Approximately \$2.25 million is available for 80 awards. Eligibility: schools of nursing, academic health centers, and other public or private non-profit accredited entities capable of providing registered nurses with full-time nurse anesthetist education. Preference given to programs that focus on rural or underserved populations.

Limited Submission: one application per campus

LINKS: [Grants.gov](#), [Solicitation](#)

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Quality Facility and Community-Based HIV Prevention, Case Finding, Care and Treatment, and Viral Suppression to Reach Epidemic Control in Cameroon under the President's Emergency Plan for AIDS Relief (PEPFAR)  
Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS), Center for Global Health (CGH)

Notice seeking applications to support technical assistance (TA) and service implementation around key strategies for improving HIV case-identification, linkage and same day antiretroviral therapy (ART) initiation, ART adherence and retention in care, and prevention of mother-to-child transmission (PMTCT) and early infant diagnosis (EID) uptake.

Applications are due February 27, 2020. Approximately \$60 million is available to support up to two awards.

LINKS: [Grants.gov](#)

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Ryan White HIV-AIDS Program Part C Capacity Development Program  
Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS)

Notice seeking applications to strengthen organizational capacity to respond to the changing health care landscape and increase access to high quality HIV primary health care services for low income, uninsured, and underserved people with HIV. Funding under this program is intended to support one short-term activity that can be completed by the end of the 1-year funding opportunity period of performance.

Applications are due March 26, 2020. Approximately \$8 million is available for 60 awards.

LINKS: [Grants.gov](#)

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Scaling Up High-Impact HIV Prevention, Testing and Treatment Models in Central America under the President's Emergency Plan for AIDS Relief (PEPFAR)  
Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS), Center for Global Health (CGH)

Notice seeking applications to contribute to the achievement of 95-95-95 targets in Central America by providing technical assistance to Ministries of Health and other relevant stakeholders to introduce or scale up high-impact HIV prevention, testing, linkage, and treatment models across the continuum of care.

Applications are due February 19, 2020. Approximately \$5 million is available to support up to two awards.

LINKS: [Grants.gov](https://www.grants.gov)

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Surgical Disparities Research (R01 - Clinical Trial Optional)

National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute on Minority Health and Health Disparities (NIMHD); National Cancer Institute (NCI)

Notice seeking applications to support investigative and collaborative research focused on understanding and addressing disparities in surgical care and outcomes, in minority and health disparity populations.

Optional letters of intent are due 30 days prior to the application due date. Applications are due June 5, 2020,; June 5, 2021, and June 5, 2022. Program expires July 6, 2022.

LINKS: [Grants.gov](https://www.grants.gov), [Solicitation](#)

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Technical Assistance to the Provincial Health Offices in Zambia to Support Optimized HIV Case Finding, Treatment, Viral Suppression, Retention and HIV Epidemic Control under the President's Emergency Plan for AIDS Relief (PEPFAR)

Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS), Center for Global Health (CGH)

Notice seeking applications to provide TA support to subnational government structures from facility, district, and provincial level to optimize HIV/TB programs in select CDC-supported provinces of Zambia to ensure that provincial, national, and global targets are met or exceeded.

Applications are due February 27, 2020. Approximately \$16 million is available to support up to four awards.

LINKS: [Grants.gov](https://www.grants.gov)

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Transferring Harmonized Laboratory Data from Healthcare Institutions to Registries Using FHIR Protocol (U01) Clinical Trials Not Allowed

Food and Drug Administration (FDA), Department of Health and Human Services (HHS)

Notice seeking applications to explore the development of how Health Level Seven (HL7) Fast Healthcare Interoperability Resources (FHIR) data exchange standard could be used to automate the transfer of LOINC-coded laboratory data from a clinical healthcare institution into registries.

Applications are due March 4, 2020. Approximately \$800,000 is available for two awards.

LINKS: [Grants.gov](https://www.grants.gov)

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White Matter Lesion Etiology of Dementia in the U.S. Including in Health Disparity Populations (U19 Clinical Trial not Allowed)

National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute of Neurological Disorders and Stroke (NINDS); National Institute on Aging (NIA)

Notice seeking applications to support one large prospective clinical research study in the U.S. of patients engaged with the health care system because of incidental white matter lesions found on neuroimaging, who present with cognitive complaints, and who thus are at risk for cognitive decline. The goal will be to determine the volume and anatomical features that are both necessary and sufficient to cause cognitive impairment or dementia.

Optional letters of intent are due March 1, 2020. Applications are due March 31, 2020. Approximately \$9.5 million is available to support one award.

LINKS: [Grants.gov](#), [Solicitation](#)

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Advisory Panel on Outreach and Education (APOE)  
Centers for Medicare and Medicaid Services (CMS), Department of Health and Human Services (HHS)

Notice announcing a meeting of the Advisory Panel on Outreach and Education. The purpose of the meeting is to advise and make recommendations to the Secretary of the U.S. Department of Health and Human Services (HHS) and the Administrator of the Centers for Medicare & Medicaid Services (CMS) on opportunities to enhance the effectiveness of consumer education strategies concerning the Health Insurance Marketplace, Medicare, Medicaid, and the Children's Health Insurance Program (CHIP).

The meeting will be held January 15, 2020 8:30 a.m. to 4:00 p.m. ET. at the U.S. Department of Health & Human Services, Hubert H. Humphrey Building, 200 Independence Avenue, SW, Room 505A, Washington, DC.

LINKS: [Federal Register](#)

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Meeting of the National Advisory Council on the National Health Service Corps  
Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS)

Notice announcing that the Secretary's National Advisory Council on the National Health Service Corps (NACNHSC) will hold public meetings for the 2020 calendar year (CY). Information about NACNHSC, agendas, and materials for these meetings can be found on the NACNHSC website at: <https://nhsc.hrsa.gov/nac/meetings.html>.

Meetings may be held in-person, by teleconference, and/or Adobe Connect webinar. In-person NACNHSC meetings will be held at 5600 Fishers Lane, Rockville, Maryland 20857. Instructions for joining the meetings either in person or remotely will be posted on the [NACNHSC website](#) 30 business days before the date of the meeting.

LINKS: [Federal Register](#)

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National Institute of Dental & Craniofacial Research; Notice of Meeting  
National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice announcing a meeting scheduled to discuss research and programs related to NIDCR, including a report to the director.

The meeting will be held January 29, 2020 from 8:30 am to 12:00 pm, ET at NIH, Building 45, Conference Room E1/E2, 8600 Rockville Pike, Bethesda, MD.

LINKS: [Federal Register](#), [Agency Site](#)

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National Institute on Drug Abuse; Notice of Meeting  
National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice announcing a meeting scheduled to discuss announcements and reports of administrative, legislative, and program developments in the drug abuse field.

The meeting will be held January 30, 2020 at NIH Neuroscience Center Building, Conference Rooms C&D, 6001 Executive Blvd, Rockville, MD.

LINKS: [Federal Register](#), [Grants.gov](#)

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Demonstrating Substantial Evidence of Effectiveness for Human Drug and Biological Products; Draft Guidance for Industry; Availability  
Food and Drug Administration (FDA), Department of Health and Human Services (HHS)

Notice seeking comments on draft guidance for industry that revises the definition of substantial drug effectiveness to reflect and allow for an increase in programs studying serious diseases lacking effective treatment, more programs in rare diseases, and more programs for therapies targeted at disease subsets.

Comments are due February 18, 2020.

LINKS: [Federal Register](#), [Agency Site](#)

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Solicitation of Nominations for Membership to Serve on the Centers for Disease Control and Prevention (CDC)-Health Resources and Services Administration (HRSA) Advisory Committee on HIV, Viral Hepatitis and STD Prevention and Treatment  
Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS)

Notice seeking nominations of qualified candidates for consideration for appointment as members of the CDC/HRSA Advisory Committee on HIV, Viral Hepatitis and STD Prevention and Treatment (CHACHSPT). CHACHSPT advises the HHS Secretary, the CDC Director, and the HRSA Administrator on objectives, strategies, policies, and priorities for HIV, viral hepatitis, and STD prevention and treatment efforts.

HRSA will receive written nominations for CHACHSPT on a continuous basis. Nomination packages must be submitted via email at [CHACAdvisoryComm@hrsa.gov](mailto:CHACAdvisoryComm@hrsa.gov).

LINKS: [Federal Register](#)

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Engineering Next-Generation Human Nervous System Microphysiological Systems (R21-R01 Clinical Trials Not Allowed)  
National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice seeking applications directed toward developing next-generation human cell-derived microphysiological systems (MPS) and related assays that replicate complex nervous system architectures and physiology with improved fidelity over current capabilities.

R21 applications are due annually on February 16, June 16, and October 16. R01 applications are due February 5, 2020, and June 5, October 5 and February 5 annually thereafter. Program expires January 8, 2023.

LINKS: [Grants.gov \(R21\)](#), [Grants.gov \(R01\)](#), [Solicitation](#)

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Ryan White HIV-AIDS Program Part F Dental Reimbursement Program  
Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS)

Notice seeking applications to improve access to oral health care services for low income, uninsured, and underserved people with HIV, and to train dental students, dental hygiene students, and dental residents to deliver dental care to people with HIV.

Applications are due April 3, 2020. Approximately \$8.7 million is available to support 56 awards.

Limited Submission: Multiple applications from an organization are not allowable.

LINKS: [Grants.gov](#)

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Scholarships for Disadvantaged Students

Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS)

Notice seeking applications to promote diversity among the health professions by providing awards to eligible health professions and nursing schools, for schools to provide scholarships to students from disadvantaged backgrounds who have a demonstrated financial need and are enrolled full-time in a health profession program or nursing program.

Applications are due March 3, 2020. Approximately \$48.2 million is available to support 79 awards for five years.

Limited Submission: One application may be submitted per one health profession degree program

LINKS: [Grants.gov](https://www.grants.gov)

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U4D Maternal and Child Health (MCH) Pregnancy-Related Care Research Network (PRC-RN) Program  
Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS),  
Maternal and Child Health Bureau

Notice seeking applications to establish and maintain an interdisciplinary, national, multi-center practice-based research forum for scientific collaboration and infrastructure building.

Applications are due March 10, 2020. Approximately \$300,000 is available to support one award for five years.

LINKS: [Grants.gov](https://www.grants.gov)

## SCIENCE, TECHNOLOGY, ENGINEERING, and MATHEMATICS

AFRL Research Collaboration Program II

Department of Defense (Defense), Air Force Research Laboratory (AFRL)

Notice seeking proposals to enable collaborative research partnerships between Air Force Research Laboratory (AFRL) and Academia that engages a diverse pool of scientists and engineers in addressing foundational research challenges in support of the nation's air, space and cyberspace technology needs.

Intent to propose are requested by January 15, 2020 to the contact person. Proposals are due by January 30, 2020. Approximately \$40 million is available.

LINKS: [Contract Opportunities](https://www.defense.gov/contractopportunities)

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Aviation-Class Synergistically Cooled Electric-Motors with Integrated Drives (ASCEND)  
Department of Energy (Energy), Advanced Research Projects Agency Energy (ARPA-E)

Notice seeking concept papers to supports the development of novel lightweight and ultra-efficient electric motors, drives2, and associated thermal management system (collectively referred to as the all-electric powertrain) that will facilitate net-zero carbon emissions in the single-aisle, 150-200 passenger commercial aircraft segment.

Concept papers are due January 31, 2020. Approximately \$35 million is available.

LINKS: [Grants.gov](https://www.grants.gov)

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Earth System Model Development and Analysis

Department of Energy (Energy), Office of Science

Notice seeking applications for Earth and Environmental Systems Modeling (EESM) with the goal to develop and demonstrate advanced modeling and simulation capabilities in order to enhance the predictability of the Earth system over multiple temporal and spacial scales.

Required pre-applications are due February 14, 2020. Invited full applications are due March 31, 2020. Approximately \$7 million is available for awards ranging from \$450,000 to \$900,000 to support projects lasting up to three years.

LINKS: [Grants.gov](https://www.grants.gov)

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Quantum Characterization of Intermediate Scale Systems (QCISS)  
Army (Army), Department of Defense (Defense), Army Research Office (ARO)

Notice seeking applications to develop efficient and practical protocols and techniques that allow Quantum Characterization, Verification, and Validation (QCVV) of larger systems with direct relevance to Fault Tolerant Quantum Computing (FTQC), and to demonstrate these protocols on intermediate-scale systems.

Requested white papers are due January 28, 2020. Proposals are due March 17, 2020.

LINKS: [Grants.gov](https://www.grants.gov), [Solicitation](#)

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Range Extenders for Electric Aviation with Low Carbon and High Efficiency (REEACH)  
Department of Energy (Energy), Advanced Research Projects Agency Energy (ARPA-E)

Notice seeking applications for the development of one element of the electrified propulsion system framework: a system for the conversion of chemical energy contained in energy dense CNLFs (green block in Fig. 1) to electric power for aircraft propulsion and hotel loads.

Concept paper are due January 31, 2020. Approximately \$20 million is available to support 10 awards.

LINKS: [Grants.gov](https://www.grants.gov)

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ROSES 2019: Applied Information Systems Research  
National Aeronautics and Space Administration (NASA), Science Mission Directorate (SMD)

Notice seeking proposals to evolve advances in computer and information science and technology to enhance science productivity of the Science Mission Directorate (SMD). AISR seeks innovative ideas for applying advanced information and related technologies to increase life cycle effective-ness and efficiency of SMD programs. The focus this year of AISR is Autonomous Ro-botics Research for Ocean Worlds (ARROW).

Required Step-1 proposals are due January 20, 2020. Step-2 proposals are due March 20, 2020. Approximately \$1.25 million is available to support up to five awards for two years.

LINKS: [Grants.gov](https://www.grants.gov), [Solicitation](#)

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ROSES 2019: Mars 2020 Participating Scientist Program  
National Aeronautics and Space Administration (NASA)

Notice seeking proposals to enhance the scientific return from the mission by broadening participation in the mission and augmenting the existing Mars 2020 science team to include new investigations that broaden and/or complement the funded Principal Investigator (PI)-led investigations, thus maximizing the contribution of Mars 2020 to the future exploration and scientific understanding of Mars.

Required Notices of intent are due January 13, 2020. Approximately \$1.5 to \$2 million is available to support 10 awards.

LINKS: [Grants.gov](#), [Solicitation](#)

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Seeding Critical Advances for Leading Energy Technologies with Untapped Potential 2019  
Department of Energy (Energy)

Notice seeking applications to fund the scaling of high-risk and potentially disruptive new technologies across the full spectrum of energy applications. The program supports scale-up and pre-pilot projects of promising technologies that ARPA-E has funded and for which the scale-up would substantially build upon innovations achieved under the original ARPA-E award.

SCALEUP required preliminary applications are due February 14, 2020. Invited full applications are due July 20, 2020. Approximately \$50 million is available for SCALEUP awards ranging from \$2 million to \$20 million (including cost share). Small Business Support Grant applications are due February 14, 2020. Approximately \$2 million is available for Small Business Support Grant awards ranging from \$50,000 to \$150,000. Colleges and universities may not be lead or standalone applicants but may be included as a member of a project team or consortia.

LINKS: [Grants.gov](#)

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Systems for Monitoring and Analytics for Renewable Transportation Fuels from Agricultural Resources and Management (SMARTFARM)  
Department of Energy (Energy), Advanced Research Projects Agency Energy (ARPA-E)

Notice seeking applications to bridge the data gap in the biofuel supply chain by funding the development of technologies that can replace national averages and emissions factors for feedstock-related emissions with field-level estimates. The value of such technologies will be evaluated by their ability to reliably, accurately (i.e. low uncertainty), and cost-effectively quantify feedstock production lifecycle emissions (in g CO<sub>2</sub>e/acre) at the field level (i.e. scalable to >80 acres).

Concept papers are due February 19, 2020. Application due date to be determined. Approximately \$20 million is available. Cost share of 20 percent is required.

LINKS: [Grants.gov](#), [Solicitation](#)

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Request for Information on the American Research Environment  
Office of Science and Technology Policy (OSTP), National Science and Technology Council (NSTC); Joint Committee on the Research Environment (JCORE)

Notice seeking comments on actions that federal agencies can take, working in partnership with private industry, academic institutions, and non-profit/philanthropic organizations, to maximize the quality and effectiveness of the American research environment. Specific emphasis is placed on ensuring that the research environment is welcoming to all individuals and enables them to work safely, efficiently, ethically, and with mutual respect, consistent with the values of free inquiry, competition, openness, and fairness.

Email comments to the contact by January 28, 2020 with the subject line "RFI Response: JCORE".

LINKS: [Federal Register](#), [Agency Site](#)

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Algorithms for Threat Detection  
Directorate for Mathematical & Physical Sciences (MPS), National Science Foundation (NSF)

Notice seeking applications for research projects to develop the next generation of mathematical and statistical algorithms for analysis of large spatiotemporal datasets with application to quantitative models of human dynamics. The program is a partnership between the Division of Mathematical Sciences (DMS) at the National Science Foundation (NSF) and the National Geospatial Intelligence Agency (NGA).

Proposals are due March 18, 2020 and then the third Wednesday in February annually thereafter. Approximately \$3 million is available to support 10 to 20 awards.

LINKS: [Grants.gov](#), [Solicitation](#)

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#### Atmospheric Water Extraction (AWE)

Defense Advanced Research Projects Agency (DARPA), Department of Defense (Defense), Biological Technologies Office (BTO)

Notice seeking proposals to address: (1) the development of novel sorbent materials, (2) materials synthesis and scale up, (3) component and systems modeling, and (4) complete integration and fabrication of the aforementioned elements into a device to extract potable water from the atmosphere. The overall goal of the program is to enable water extraction from the atmosphere to produce a small, low-powered, lightweight system with two form-factors: one capable of providing potable water for expeditionary forces (daily output sufficient for the individual warfighter), and another for stabilization missions (daily output to supply ~150 people).

Proposal abstracts are due January 28, 2020. Full proposals are due March 12, 2020. Multiple awards are anticipated.

LINKS: [Grants.gov](#), [Contract Opportunities](#)

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#### Enabling Discovery through GENomic Tools

Directorate for Biological Sciences (BIO), National Science Foundation (NSF)

Notice seeking proposals for two types of projects: (1) the development of tools, approaches, and infrastructure aimed at testing cause and effect hypotheses between gene function and phenotypes in diverse plants, animals, microbes, viruses, or fungi for which these methods are presently unavailable, and (2) hypothesis-driven research that tests cause and effect relations between genotype(s) and phenotypes in non-model plants, animals, microbes, viruses, or fungi.

Proposals are accepted any time. Approximately \$10 million is available for 10 to 15 awards.

LINKS: [Grants.gov](#), [Solicitation](#)

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#### Minority Serving Institutions Partnership Program

Department of Energy (Energy), National Nuclear Security Administration (NNSA)

Notice seeking applications for new or renewal grant financial assistance awards from Minority Serving Institutions in the areas of Advanced Manufacturing, Cybersecurity, Engineering, or Nuclear Security for consortium partnerships.

Applications are due March 4, 2020. Informational webinar will be held January 28, 2020. Approximately \$12 million is available to support two to five awards in FY 2020.

LINKS: [Grants.gov](#)

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#### Multi-Source Exploitation Assistant for the Digital Enterprise (MEADE)

Department of Defense (Defense), Air Force Research Laboratory (AFRL)

Notice seeking innovative research proposals to develop a vetted digital assistant that provides analytical answers within operator-driven timelines. The software must perform constrained analytical tasks specified by user in the form of a question and include software agents that perform tasks independently (question answering).

Required white papers are due March 27, 2020. Proposals are accepted by invitation only. Approximately \$4.4 million is available in FY 21.

LINKS: [Contract Opportunities](#)

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National Defense Education Program (NDEP) for Science, Technology, Engineering, and Mathematics (STEM) Education, Outreach, and Workforce Initiative Programs, Fiscal Year 2020  
Department of Defense (Defense)

Notice seeking applications to implement Science, Technology, Engineering, and Mathematics (STEM) education, outreach, and/or workforce initiative programs, here onto will be referred as STEM activities.

Applications are due February 24, 2020. Each individual award will be up to a maximum of \$3,000,000, for a period of up to three years.

LINKS: [Grants.gov](#)

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Principles and Practice of Scalable Systems  
Directorate for Computer & Information Science & Engineering (CISE), National Science Foundation (NSF)

Notice seeking proposals to support a community of researchers who will work symbiotically across the multiple disciplines to perform basic research on scalability of modern applications, systems, and toolchains. The intent is that these efforts will foster the development of principles that lead to rigorous and reproducible artifacts for the design and implementation of large-scale systems and applications across the full hardware/software stack. These principles and methodologies should simultaneously provide guarantees on correctness and accuracy, robustness, and security and privacy of systems, applications, and toolchains. Importantly, as described below, PPOSS specifically seeks to fund projects that span the entire hardware/software stack and will lay the groundwork for sustainable approaches for engineering highly performant, scalable, and robust computing applications.

Proposals for Planning grants are due March 30, 2020; January 25, 2021; and January 24, 2022. Proposals for LARGE grants are due January 25, 2021; January 24, 2022; January 23, 2023; and January 22, 2024. Approximately \$86.75 million is available for an estimated 43 awards from FY 21 through FY 24. Planning awards of up to \$250,000 support projects lasting up to one year, while LARGE awards of up to \$1 million support projects lasting up to five years.

LINKS: [Solicitation](#), [Grants.gov](#)

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Systems Biology Research to Advance Sustainable Bioenergy Crop Development  
Department of Energy (Energy), Office of Science

Notice seeking applications for: i. Systems-level research to improve understanding of the molecular mechanisms underlying bioenergy feedstock productivity under changing and at times suboptimal environmental conditions; ii. Systems biology-enabled investigations into the role(s) of microbes and microbial communities (including rhizosphere consortia, e.g. bacteria, fungi, diazotrophs, endophytes, viruses) in supporting plant productivity and vigor.

Required pre-applications are due January 27, 2020. Applications are due March 9, 2020. Up to \$15 million is available to support multiple awards in FY 2020.



LINKS: [Grants.gov](https://www.grants.gov)

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University Training and Research in Fossil Energy - UCR-HBCU  
Department of Energy (Energy), National Energy Technology Laboratory (NETL)

Notice seeking applications for long-term, high-risk meritorious fundamental research in coal technologies to develop educational and training capabilities at universities, with specific funding available for HBCUs.

Applications are due March 2, 2020. Approximately \$6.3 million is available for 13 awards.

LINKS: [Grants.gov](https://www.grants.gov)

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Notification of a Public Meeting of the Chartered Science Advisory Board  
Environmental Protection Agency (EPA)

Notice announcing a meeting scheduled to discuss the following proposed rules: 1) National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units—Reconsideration of Supplemental Finding and Residual Risk and Technology Review; (2) The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks; (3) Strengthening Transparency in Regulatory Science; and (4) Revised Definition of “Waters of the United States.”

The meeting will be held January 17, 21, 22, and 24 from 1:00 pm to 5:00 pm, ET, each day via teleconference.

LINKS: [Federal Register](https://www.federalregister.gov), [Agency Site](https://www.epa.gov)

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Division of Integrative Organismal Systems Core Programs  
Directorate for Biological Sciences (BIO), National Science Foundation (NSF)

Notice seeking proposals to support research aimed at understanding why organisms are structured the way they are and function as they do. Proposals are welcomed in all of the core scientific program areas supported by the Division of Integrative Organismal Systems (IOS).

Proposals are accepted anytime. Approximately \$60 million is available to support 250 awards.

LINKS: [Grants.gov](https://www.grants.gov), [Solicitation](#)

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International Research and Education Network Connections  
Directorate for Computer & Information Science & Engineering (CISE), National Science Foundation (NSF),  
Office of Advanced Cyberinfrastructure

Notice seeking proposals to support high-performance network connectivity required by international science and engineering research and education collaborations involving the NSF research community. High-performance network connections and infrastructure funded by this program are intended to support science and engineering research and education applications, and preference will be given to solutions that provide the best economy of scale and demonstrate the ability to support the largest communities of interest with the broadest services.

Proposals are due April 1, 2020. Approximately \$20 to \$50 million is available to support 5 to 14 awards.

LINKS: [Grants.gov](https://www.grants.gov), [Solicitation](#)

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Spectrum and Wireless Innovation enabled by Future Technologies  
National Science Foundation (NSF)

Notice seeking proposals to focus on effective spectrum utilization and/or coexistence techniques, especially with passive uses, which have received less attention from researchers. Coexistence is when two or more applications use the same frequency band at the same time and/or at the same location, yet do not adversely affect one another.

Proposals are due April 3, 2020. Approximately \$12 million is available to support 12 to 16 awards.

LINKS: [Grants.gov](#), [Solicitation](#)