

Funding Opportunity Announcements 12.8.17

Campus wide

[Spencer Foundation Invites Proposals for Education Research Projects](#)

POSTED: November 28, 2017

DEADLINE: Small Research Grant proposals are accepted 4 times per year. The next deadline is at 4:00pm CST, February 1, 2018. The following deadlines will fall on May 1, 2018, August 1, 2018, and November 1, 2018.

Funding Instrument Type: Grant

The Spencer Foundation supports high-quality investigations of education through its research programs and the strengthening and renewing of the educational research community through its fellowship and training programs and related activities. Through its Small Research Grants Program, the foundation is accepting research proposals for education research projects. In keeping with the foundation's mission, the program aims to fund academic work that will contribute to the improvement of education, broadly conceived. Examples of previously funded projects include an experimental study of how college students use visual representations in solving math problems; a study exploring the process of racial and rural identity formation among African-American high-school students who attend de facto segregated schools in the rural South; and a mixed-methods study focused on the different types of knowledge novice and experienced teachers draw on in teaching reading comprehension. The program awards grants of up to \$50,000.

Humanities

[National Endowment for the Humanities \(NEH\): Summer Programs in the Humanities for School Teachers and College and University Faculty](#)

POSTED: December 4, 2017

DEADLINE: March 1, 2018

Funding Instrument Type: Grant

Each year, NEH offers tuition-free opportunities for school, college, and university educators to study a variety of humanities topics. Stipends of \$1,200-\$3,300 help cover expenses for these one- to four-week programs. Topics include; 1) The Bhagavad Gita: Ancient Poem, Modern Readers; 2) Courtly Lyric in the Medieval French Tradition. Poetry as Performance; 3) Invisible Bonds: The Enlightenment Science of Society from Mandeville to Hegel; 4) Shakespeare Without Fear: Teaching the Plays; 5) Will, Commandment, and Human Perfection in Medieval Jewish Philosophy; 6) The American Maritime Commons; 7) Art and Public Culture in Chicago; 8) The Book: Material Histories and Digital Futures; 9) Buddhist East Asia: The Interplay of Religion, the Arts and Politics; 10) Culture in the Cold War: East German Art, Music and Film; 11) Digital Technologies in Theatre and Performance Studies; 12) Global Histories of Disability; 13) Hoover Dam and the Shaping of the American West; 14) The Native American West: A Case Study of the Columbia Plateau; 16) Reviving Philosophy as a Way of Life; 17) Self-Knowledge in Eastern and Western Philosophies; 18) Slavery and the Constitution; 19) Thresholds of Change: Modernity and Transformation in the Mediterranean, 1400-1700; 20) Visual Culture of the American Civil War and Its Aftermath; and 21) Women's Suffrage in the Americas.

[National Archives and Records Administration: State Board Programming Grants](#)

POSTED: November 29, 2017

DEADLINE: June 13, 2018

Funding Instrument Type: Grant

The National Historical Publications and Records Commission seeks proposals that strengthen the nation's archival network through activities undertaken by state historical records advisory boards. The purpose of this grant program is to assist state boards to broaden preservation of, and increased online access to, historical records; develop and promote best practices; support activities that put the American people in touch with primary sources in their communities and online; promote the institutional advancement of organizations in underserved communities; and assist locally based repositories with training and tools to improve their stewardship abilities. The Commission will award grants to state historical records advisory boards to: 1) Operate state-based re-grant programs that preserve historical records and make them available online; 2) Provide educational and outreach programs, workshops, and other activities that enhance citizen and student engagement with historical records; 3) Offer scholarships, training opportunities, and other programs that support institutional advancement among records repositories, especially those in underserved communities; 4) Collaborate on projects with other organizations to address common problems or shared opportunities within a state or among a consortium of state archives; 5) Hold or participate in meetings and public forums on statewide or national archival issues.

Note: These grants are awarded only to state historical records advisory boards in each state, or to the state agency responsible for the state board, ordinarily the state archives. **Another state agency, or a non-profit organization, such as a foundation or university, acting on behalf of the designated state agency may apply.**

[National Archives and Records Administration: Publishing Historical Records in Documentary Editions](#)

POSTED: November 29, 2017

DEADLINE: October 4, 2018

Funding Instrument Type: Grant

The National Historical Publications and Records Commission seeks proposals to publish documentary editions of historical records. Projects may focus on the papers of major figures from American history or cover broad historical movements in politics, social reform, business, military, the arts, and other aspects of the national experience. The goal of this program is to provide access to, and editorial context for, the historical documents and records that tell the American story. Grants are awarded for collecting, describing, preserving, compiling, transcribing, annotating, editing, encoding, and publishing documentary source materials online and in print. All applicants should be aware that the application process is highly competitive.

Social Sciences

[NIH: Coordinated Microphysiological Systems Program for Translational Research in Space \(UG3/UH3\) \(Clinical Trials Not Allowed\)](#)

POSTED: November 30, 2017

DEADLINE: January 16, 2018

Funding Instrument Type: Cooperative Agreement

The purpose of this FOA is to promote the development of in vitro microphysiological systems in modeling human diseases and conditions that mimic the pathology in major organs and tissues in the human body, when exposed to the extreme environments of space, and the use of these models at the International Space Station-U.S. National Laboratory (ISS-NL) to facilitate the assessment of biomarkers, bioavailability, efficacy, and toxicity of therapeutic agents prior to entry into clinical trials. During the initial two-year UG3 phase, support will be provided to develop robust models that recapitulate the progression and pathology of human diseases and conditions exposed to prolonged microgravity environment. Following administrative review, the two-year UH3 phase will build upon successful UG3 models to demonstrate the functional utility of the models for more defined experiments at the ISS-NL. It is anticipated that these studies will lead to identification of novel treatment mechanisms through better understanding of disease biology, drug screening, assessment of candidate therapies for efficacy and safety assessments, and establishing the pre-clinical foundation that will inform clinical trial design on Earth.

[National Psoriasis Foundation Issues RFP for Discovery Grant](#)

POSTED: November 27, 2017

DEADLINE: January 19, 2018

Funding Instrument Type: Grant

The National Psoriasis Foundation is seeking applications from researchers with innovative ideas that can advance research on psoriasis and psoriatic arthritis. Grants of up to \$75,000 will be awarded to support researchers as they explore preliminary ideas and conduct proof-of-concept experiments. The goal of the program is to stimulate the development of new research programs in the field of psoriatic disease that are capable of competing for long-term funding from the National Institutes of Health or other agencies in the future. Researchers with a specific focus on psoriatic arthritis, public health, and co-morbidities are strongly encouraged to apply.

[Dept. of Health and Human Services, Substance Abuse and Mental Health Services Administration \(SAMHSA\): Offender Reentry Program](#)

POSTED: November 24, 2017

DEADLINE: January 26, 2018

Funding Instrument Type: Grant

The purpose of this program is to expand substance use disorder (SUD) treatment and related recovery and reentry services to sentenced adult offenders/ex-offenders with a SUD and/or co-occurring substance use and mental disorders, who are returning to their families and community from incarceration in state and local facilities including prisons, jails, or detention centers (hereafter known as “the population of focus”). Applicants are expected to form stakeholder partnerships that will plan, develop and provide a transition from incarceration to community-based SUD treatment and related reentry services. SAMHSA’s interest is to actively support offender reentry stakeholder partnerships so that clinical needs are met and clients are treated using evidence-based practices. By providing needed treatment and recovery services, this program is intended to reduce the health and social costs of substance use and dependence to the

public, and increase the safety of America's citizens by reducing substance use related crime and violence.

[Dept. of Agriculture, National Institute of Food and Agriculture: Beginning Farmer and Rancher Development Program](#)

POSTED: November 24, 2017

DEADLINE: February 8, 2018

Funding Instrument Type: Grant

The Agriculture Act of 2014 has provided \$20 million per year for 2014 through 2018 to to develop and offer education, training, outreach and mentoring programs to enhance the sustainability of the next generation of farmers. Applications may only be submitted by a collaborative state, tribal, local, or regionally-based network or partnership of qualified public and/or private entities.

[Centers for Disease Control and Prevention: Etiology and Outcome of Inflammatory Bowel Disease](#)

POSTED: December 5, 2017

DEADLINE: February 9, 2018

Funding Instrument Type: Cooperative Agreement

The purpose of this announcement is to 1) establish a new Inflammatory bowel disease (IBD) registry to estimate incidence of IBD in the adult and pediatric populations and extrapolate to the US population; 2) describe the natural history and outcomes of IBD; 3) determine racial/ethnic variation in the detection and management of IBD; and 4) identify evidence-based strategies to improve disease outcomes. The results are anticipated to enhance understanding of the impact of IBD on the overall health of affected persons and the impact of various clinical practices and healthcare delivery approaches on the disease outcomes.

[NIH: Epidemiology and Prevention in Alcohol Research \(R21 - Clinical Trial Optional\)](#)

POSTED: November 27, 2017

DEADLINE: Upcoming funding cycle deadlines are February 16, 2018; June 16, 2018; and October 16, 2018.

Funding Instrument Type: Grant

This Funding Opportunity Announcement encourages the submission of investigator-initiated research grant applications to support research investigating the epidemiology of alcohol use, alcohol-related harms, and alcohol use disorders and the prevention of underage drinking, alcohol-related harms, and alcohol use disorders.

[NIH: Strengthening the HIV Pre-Exposure Prophylaxis \(PrEP\) Care Continuum through Behavioral, Social, and Implementation Science \(R21 Clinical Trial Optional\)](#)

POSTED: November 29, 2017

DEADLINE: Upcoming funding cycle deadlines are May 7, 2018; September 7, 2018; and January 7, 2019.

Funding Instrument Type: Grant

This Funding Opportunity Announcement encourages behavioral, social, and implementation science research designed to: 1) Identify gaps in the HIV pre-exposure

prophylaxis (PrEP) care continuum and associated determinants; 2) Develop and test interventions to strengthen PrEP delivery, use, and outcomes; 3) Reduce racial/ethnic and age-related disparities in PrEP uptake and use.

[NIH: Targeted basic behavioral and social science and intervention development for HIV prevention and care \(R21 Clinical Trial Optional\)](#)

POSTED: November 29, 2017

DEADLINE: Upcoming funding cycle deadlines are May 7, 2018; September 7, 2018; and January 7, 2019.

Funding Instrument Type: Grant

This Funding Opportunity Announcement (FOA) encourages innovative, targeted basic behavioral, social science, and intervention development research to reduce incident HIV infections and improve the health of those living with HIV. This FOA encourages research designed to: 1) Conduct basic behavioral and social science research that is needed to advance the development of HIV prevention and care interventions; 2) Translate and operationalize the findings from these basic studies to develop interventions and assess their acceptability and feasibility; 3) Conduct tests of the efficacy of HIV prevention and care interventions.

[NIH: Innovations in Mechanisms and Interventions to Address Mental Health in HIV Prevention and Care Continuum \(R21 Clinical Trial Optional\)](#)

POSTED: November 29, 2017

DEADLINE: Upcoming funding cycle deadlines are May 7, 2018; September 7, 2018; and January 7, 2019.

Funding Instrument Type: Grant

This Funding Opportunity Announcement encourages applications focused on: 1) Advancing understanding of mechanisms by which mental health affects HIV prevention and treatment in order to identify modifiable intervention targets; and 2) Developing and pilot testing expanded interventions to improve both mental health and HIV outcomes along the entire HIV care continuum.

[NIH: Innovations in HIV Testing, Adherence, and Retention to Optimize HIV Care Continuum Outcomes \(R21 Clinical Trial Optional\)](#)

POSTED: November 29, 2017

DEADLINE: Upcoming funding cycle deadlines are May 7, 2018; September 7, 2018; and January 7, 2019.

Funding Instrument Type: Grant

The health and preventive benefits of treatment for HIV/AIDS are now unequivocal. In the United States and globally, ambitious goals have been targeted for HIV testing, adherence, and retention in care, to optimize HIV clinical outcomes and preventive benefit. Additional tools are needed to inform the gaps and strategies that are unique to particular populations, cities, regions, and countries. Applications appropriate for this FOA could include formative basic behavioral and social science to better understand a step in the care continuum and/or multiple steps in the HIV care continuum, and initial development and pilot tests of innovative approaches for intervention.

[NIH: Research on Autism Spectrum \(R21- Clinical Trial Optional\)](#)

POSTED: November 30, 2017

DEADLINE: Upcoming funding cycle deadlines are February 16, 2018 and June 16, 2018.

Funding Instrument Type: Grant

The purpose of this Funding Opportunity Announcement is to encourage research grant applications to support research designed to elucidate the etiology, epidemiology, diagnosis, and optimal means of service delivery in relation to Autism Spectrum Disorders.

[National Endowment for the Humanities \(NEH\): Summer Programs in the Humanities for School Teachers and College and University Faculty](#)

POSTED: December 4, 2017

DEADLINE: March 1, 2018

Funding Instrument Type: Grant

Each year, NEH offers tuition-free opportunities for school, college, and university educators to study a variety of humanities topics. Stipends of \$1,200-\$3,300 help cover expenses for these one- to four-week programs. Topics include; 1) The Bhagavad Gita: Ancient Poem, Modern Readers; 2) Courtly Lyric in the Medieval French Tradition. Poetry as Performance; 3) Invisible Bonds: The Enlightenment Science of Society from Mandeville to Hegel; 4) Shakespeare Without Fear: Teaching the Plays; 5) Will, Commandment, and Human Perfection in Medieval Jewish Philosophy; 6) The American Maritime Commons; 7) Art and Public Culture in Chicago; 8) The Book: Material Histories and Digital Futures; 9) Buddhist East Asia: The Interplay of Religion, the Arts and Politics; 10) Culture in the Cold War: East German Art, Music and Film; 11) Digital Technologies in Theatre and Performance Studies; 12) Global Histories of Disability; 13) Hoover Dam and the Shaping of the American West; 14) The Native American West: A Case Study of the Columbia Plateau; 16) Reviving Philosophy as a Way of Life; 17) Self-Knowledge in Eastern and Western Philosophies; 18) Slavery and the Constitution; 19) Thresholds of Change: Modernity and Transformation in the Mediterranean, 1400-1700; 20) Visual Culture of the American Civil War and Its Aftermath; and 21) Women's Suffrage in the Americas.

[Health Resources and Services Administration \(HRSA\): Ryan White HIV/AIDS Program Part C Capacity Development Grants](#)

POSTED: December 6, 2017

DEADLINE: March 9, 2018

Funding Instrument Type: Grant

This FOA provides funding to assist public and nonprofit entities in their efforts to strengthen their organizational infrastructure and to increase their capacity to develop, enhance, or expand access to high quality HIV primary healthcare services for people living with HIV or who are at risk of infection in underserved or rural communities. Grant funding under this program is not intended to support long-term activities. Instead, the activities should be of a short-term nature and should be completed by the end of the grant period, one year in length.

[NIH: Predicting Behavioral Responses to Population-Level Cancer Control Strategies \(R21 Clinical Trial Optional\)](#)

POSTED: November 28, 2017

DEADLINE: Upcoming deadlines are April 11, 2018; October 10, 2018; and April 11, 2019.

Funding Instrument Type: Grant

The goal of this funding opportunity announcement is to facilitate research to identify individual influences on the effectiveness of population-level strategies that target cancer-related behaviors. We seek to encourage collaborations among scientists with expertise in health policy research and implementation, as well as investigators in scientific disciplines that have not traditionally conducted cancer or policy research, such as: psychological science, affective and cognitive neuroscience, judgment and decision-making, consumer behavior and marketing, organizational behavior, sociology, cultural anthropology, behavioral economics, linguistics, and political science.

[NIH: Intervening with Cancer Caregivers to Improve Patient Health Outcomes and Optimize Health Care Utilization \(R21 Clinical Trial Optional\)](#)

POSTED: November 28, 2017

DEADLINE: Upcoming deadlines are April 11, 2018; October 10, 2018, and April 11, 2019.

Funding Instrument Type: Grant

This Funding Opportunity Announcement (FOA) invites applications for intervention research designed to support caregivers of adult cancer patients. Interventions supported by this FOA are intended to provide caregivers with care training, promote coping skills, and ultimately help them manage care. Outcomes of such interventions are expected to 1) Optimize patient health care utilization; 2) Improve caregiver well-being and; 3) Improve patient physical health and psychosocial outcomes.

[NIH: Health Services Research on Minority Health and Health Disparities \(R21 Clinical Trial Optional\)](#)

POSTED: November 29, 2017

DEADLINE: Upcoming deadlines are April 11, 2018 and April 11, 2019.

Funding Instrument Type: Grant

The purpose of this Funding Opportunity Announcement is to encourage innovative exploratory and developmental health services research to improve minority health and/or reduce health disparities at the health care system-level as well as within clinical settings.

[NIH: Quantitative Imaging Tools and Methods for Cancer Therapy Response Assessment \(UG3/UH3 Clinical Trial Optional\)](#)

POSTED: November 29, 2017

DEADLINE: Upcoming deadlines are May 9, 2018; September 12, 2018; and January 9, 2019.

Funding Instrument Type: Cooperative Agreement

This Funding Opportunity Announcement encourages research project applications under the cooperative agreement (UG3/UH3) mechanism to address the development,

optimization and validation of quantitative imaging software tools and methods for prediction and/or measurement of response to cancer therapies.

[NIH: High Impact, Interdisciplinary Science in NIDDK Research Areas \(RC2 Clinical Trial Optional\)](#)

POSTED: November 30, 2017

DEADLINE: Upcoming deadlines are June 1, 2018 and November 1, 2018.

Funding Instrument Type: Grant

The purpose of the High Impact, Interdisciplinary Science grants program is to support high impact ideas that may lay the foundation for new fields of investigation within the mission of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The interdisciplinary approach encouraged by this FOA is envisioned to generate a community research resource for the broader community, which may include discovery-based or hypothesis-generating science. The interdisciplinary research team should be able to provide an integrative plan of working together to effectively address the complex challenge at hand. This program will support research projects that accelerate critical breakthroughs, early and applied research on cutting-edge technologies, and new approaches to improve the synergy and interactions among multi- and interdisciplinary research teams, including sharing of data and other resources to further advance research in this area. This FOA seeks novel approaches in areas that address specific knowledge gaps, scientific opportunities, new technologies, data generation, or research methods that will advance the area in significant ways designed to accelerate scientific progress in the understanding, treatment and prevention of diseases within the mission of NIDDK.

[NIH: Exploratory/Developmental Surgical Disparities Research \(R21 Clinical Trial Optional\)](#)

POSTED: November 30, 2017

DEADLINE: Upcoming deadlines are June 7, 2018 and June 7, 2019.

Funding Instrument Type: Grant

The purpose of this Funding Opportunity Announcement is to encourage developmental and exploratory research focused on understanding and addressing disparities in surgical care and outcomes, in minority and health disparity populations. The goal is to better understand and explore effectiveness of clinical intervention approaches for addressing surgical disparities, while employing multi-level strategies at the institutional and systems level.

[NIH: Improving Smoking Cessation in Socioeconomically Disadvantaged Populations via Scalable Interventions \(R21 Clinical Trial Optional\)](#)

POSTED: November 30, 2017

DEADLINE: Upcoming deadlines are June 13, 2018; October 11, 2018; and June 13, 2019.

Funding Instrument Type: Grant

The purpose of this Funding Opportunity Announcement (FOA) is to provide support for innovative and promising intervention research designed to improve smoking cessation outcomes among socioeconomically disadvantaged populations. Specifically, this FOA

is intended to stimulate research efforts aimed at the development of smoking cessation interventions that: 1) are targeted to socioeconomically disadvantaged populations, and 2) could be made scalable for broad population impact. Applicants may propose projects that develop and test novel cessation interventions with the potential to be scaled up, as well as projects that focus on enhancing the effectiveness, quality, accessibility, utilization, and cost-effectiveness of currently scaled smoking cessation interventions.

[NIH: Mobile Health: Technology and Outcomes in Low and Middle Income Countries \(R21 Clinical Trial Optional\)](#)

POSTED: November 30, 2017

DEADLINE: August 31, 2018

Funding Instrument Type: Grant

The purpose of this Funding Opportunity Announcement is to encourage exploratory/developmental research applications that propose to conduct research to develop or adapt innovative mobile health technology specifically suited for low and middle income countries and determine the health-related outcomes associated with implementation of the technology. Of highest interest are innovative, well-designed multidisciplinary projects that aim to generate generalizable knowledge for the field.

[National Archives and Records Administration: Publishing Historical Records in Documentary Editions](#)

POSTED: November 29, 2017

DEADLINE: October 4, 2018

Funding Instrument Type: Grant

The National Historical Publications and Records Commission seeks proposals to publish documentary editions of historical records. Projects may focus on the papers of major figures from American history or cover broad historical movements in politics, social reform, business, military, the arts, and other aspects of the national experience. The goal of this program is to provide access to, and editorial context for, the historical documents and records that tell the American story. Grants are awarded for collecting, describing, preserving, compiling, transcribing, annotating, editing, encoding, and publishing documentary source materials online and in print. All applicants should be aware that the application process is highly competitive.

Natural Sciences

[NIH: Coordinated Microphysiological Systems Program for Translational Research in Space \(UG3/UH3\) \(Clinical Trials Not Allowed\)](#)

POSTED: November 30, 2017

DEADLINE: January 16, 2018

Funding Instrument Type: Cooperative Agreement

The purpose of this FOA is to promote the development of in vitro microphysiological systems in modeling human diseases and conditions that mimic the pathology in major organs and tissues in the human body, when exposed to the extreme environments of space, and the use of these models at the International Space Station-U.S. National Laboratory (ISS-NL) to facilitate the assessment of biomarkers, bioavailability, efficacy, and toxicity of therapeutic agents prior to entry into clinical trials. During the initial two-

year UG3 phase, support will be provided to develop robust models that recapitulate the progression and pathology of human diseases and conditions exposed to prolonged microgravity environment. Following administrative review, the two-year UH3 phase will build upon successful UG3 models to demonstrate the functional utility of the models for more defined experiments at the ISS-NL. It is anticipated that these studies will lead to identification of novel treatment mechanisms through better understanding of disease biology, drug screening, assessment of candidate therapies for efficacy and safety assessments, and establishing the pre-clinical foundation that will inform clinical trial design on Earth.

[National Psoriasis Foundation Issues RFP for Discovery Grant](#)

POSTED: November 27, 2017

DEADLINE: January 19, 2018

Funding Instrument Type: Grant

The National Psoriasis Foundation is seeking applications from researchers with innovative ideas that can advance research on psoriasis and psoriatic arthritis. Grants of up to \$75,000 will be awarded to support researchers as they explore preliminary ideas and conduct proof-of-concept experiments. The goal of the program is to stimulate the development of new research programs in the field of psoriatic disease that are capable of competing for long-term funding from the National Institutes of Health or other agencies in the future. Researchers with a specific focus on psoriatic arthritis, public health, and co-morbidities are strongly encouraged to apply.

[Dept. of Energy, Office of Science: Fiscal Year 2018 Research and Development for Next Generation Nuclear Physics Accelerator Facilities](#)

POSTED: December 1, 2017

DEADLINE: January 19, 2018

Funding Instrument Type: Grant

The Nuclear Physics (NP) program in the Office of Science, U.S. Department of Energy, hereby announces its interest in receiving applications for Research and Development (R&D) efforts directed at accelerator R&D for next generation NP accelerator facilities.

[National Park Service: Southwest Border Resource Protection Program](#)

POSTED: November 27, 2017

DEADLINE: January 26, 2018

Funding Instrument Type: Cooperative Agreement

Several National Parks located along the U.S. border with Mexico have recently experienced serious resource damage due to illegal cross border activities. Thousands of miles of unauthorized roads and trails have been created, major ecological processes and the migration patterns of wildlife have been disrupted, important historic sites have been vandalized, and archaeological sites have been looted. Program funding is available for conducting scientific research and monitoring of species, as well as conservation, interpretation and preservation projects designed to help protect and preserve natural and cultural resources located near or along our international border.

[National Science Foundation: Fluid Dynamics and Particulate and Multiphase Processes Research at the International Space Station to Benefit Life on Earth](#)

POSTED: November 30, 2017

DEADLINE: The submission window is February 1, 2018 - March 05, 2018

Funding Instrument Type: Grant

The Division of Chemical, Bioengineering and Environmental Transport in the Engineering Directorate of the National Science Foundation is partnering with The Center for the Advancement of Science in Space to solicit research projects in the general field of fluid dynamics and particulate and multiphase processes that can utilize the International Space Station National Lab to conduct research that will benefit life on Earth.

[Dept. of Defense, Defense Sciences Office: Nascent Light-Matter Interactions \(NLM\)](#)

POSTED: November 30, 2017

DEADLINE: February 7, 2018

Funding Instrument Type: Cooperative Agreement, Grant, Procurement Contract

The Defense Sciences Office at the Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals that advance our knowledge and understanding of light-matter interactions. In particular, DARPA seeks to develop new and systematic approaches to the design of engineered structures and materials that change how we manipulate electromagnetic waves and capitalize on nascent wave-matter interactions. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.

[Centers for Disease Control and Prevention: Etiology and Outcome of Inflammatory Bowel Disease](#)

POSTED: December 5, 2017

DEADLINE: February 9, 2018

Funding Instrument Type: Cooperative Agreement

The purpose of this announcement is to 1) establish a new Inflammatory bowel disease (IBD) registry to estimate incidence of IBD in the adult and pediatric populations and extrapolate to the US population; 2) describe the natural history and outcomes of IBD; 3) determine racial/ethnic variation in the detection and management of IBD; and 4) identify evidence-based strategies to improve disease outcomes. The results are anticipated to enhance understanding of the impact of IBD on the overall health of affected persons and the impact of various clinical practices and healthcare delivery approaches on the disease outcomes.

[NIH: Epidemiology and Prevention in Alcohol Research \(R21 - Clinical Trial Optional\)](#)

POSTED: November 27, 2017

DEADLINE: Upcoming funding cycle deadlines are February 16, 2018; June 16, 2018; and October 16, 2018.

Funding Instrument Type: Grant

This Funding Opportunity Announcement encourages the submission of investigator-initiated research grant applications to support research investigating the epidemiology of alcohol use, alcohol-related harms, and alcohol use disorders and the prevention of underage drinking, alcohol-related harms, and alcohol use disorders.

[North Carolina Biotechnology Center: Biotechnology Innovation Grant \(BIG\)](#)

POSTED: December 5, 2017

DEADLINE: February 21, 2018 (noon)

Funding Instrument Type: Grant

The purpose of the Biotechnology Innovation Grant (BIG) is to support research studies that explore potential commercial applications of early-stage university inventions. A BIG award provides funding for a technical research project conducted by a faculty investigator alongside a related commercial development project undertaken by a commercial development adviser. BIG projects are intended to inform strategic decision-making regarding pursuit of intellectual property protection and/or commercial product development. A successful BIG project can uncover technical and commercial opportunities or weaknesses; provide critical information regarding continued development of IP claims and protection; and/or position the technology for further commercial development.

[Dept. of Defense, Air Force Office of Scientific Research: Defense Enterprise Science Initiative](#)

POSTED: November 29, 2017

DEADLINE: February 28, 2018

Funding Instrument Type: Grant, Procurement Contract

The Department of Defense, Defense Enterprise Science Initiative (DESI) is a pilot program that supports use-inspired basic research performed by university-industry teams. DESI is sponsored by the Office of the Assistant Secretary of Defense for Research and Engineering, and is run in collaboration with the Air Force Research Lab, the Air Force Office of Scientific Research, and the Army Research Office.

[Dept. of Energy \(DOE\), Office of Science: Earth System Model Development and Analysis](#)

POSTED: November 28, 2017

DEADLINE: March 19, 2018

Funding Instrument Type: Grant

This FOA invites proposals to enhance our understanding of the Earth system by promoting a process- and system-level understanding of the modes of variability and change within the Earth system. This enhanced understanding is achieved by advancing capabilities to design, evaluate, diagnose, analyze, and improve global coupled Earth system models.

[NIH: Predicting Behavioral Responses to Population-Level Cancer Control Strategies \(R21 Clinical Trial Optional\)](#)

POSTED: November 28, 2017

DEADLINE: Upcoming deadlines are April 11, 2018; October 10, 2018; and April 11, 2019.

Funding Instrument Type: Grant

The goal of this funding opportunity announcement is to facilitate research to identify individual influences on the effectiveness of population-level strategies that target cancer-related behaviors. We seek to encourage collaborations among scientists with expertise in health policy research and implementation, as well as investigators in scientific disciplines that have not traditionally conducted cancer or policy research, such as: psychological science, affective and cognitive neuroscience, judgment and decision-making, consumer behavior and marketing, organizational behavior, sociology, cultural anthropology, behavioral economics, linguistics, and political science.

[NIH: Intervening with Cancer Caregivers to Improve Patient Health Outcomes and Optimize Health Care Utilization \(R21 Clinical Trial Optional\)](#)

POSTED: November 28, 2017

DEADLINE: Upcoming deadlines are April 11, 2018; October 10, 2018, and April 11, 2019.

Funding Instrument Type: Grant

This Funding Opportunity Announcement (FOA) invites applications for intervention research designed to support caregivers of adult cancer patients. Interventions supported by this FOA are intended to provide caregivers with care training, promote coping skills, and ultimately help them manage care. Outcomes of such interventions are expected to 1) Optimize patient health care utilization; 2) Improve caregiver well-being and; 3) Improve patient physical health and psychosocial outcomes.

[NIH: Fast-Track Development of Medications to Treat Cannabis Use Disorders \(UG3/UH3 Clinical Trial Optional\)](#)

POSTED: November 29, 2017

DEADLINE: May 7, 2018

Funding Instrument Type: Cooperative Agreement

The purpose of this Funding Opportunity Announcement is to accelerate the discovery and development of medications to treat Cannabis Use Disorders (CUDs) using the UG3/UH3 mechanism. The objective is to advance medications toward the ultimate goal of obtaining FDA approval. Advances in understanding the cannabinoid systems and the effects of marijuana on the brain, coupled with the availability of both novel and marketed medications that may be efficacious to treat these disorders, offer unprecedented opportunities to develop safe and effective pharmacotherapies for CUDs.

[NIH: Quantitative Imaging Tools and Methods for Cancer Therapy Response Assessment \(UG3/UH3 Clinical Trial Optional\)](#)

POSTED: November 29, 2017

DEADLINE: Upcoming deadlines are May 9, 2018; September 12, 2018; and January 9, 2019.

Funding Instrument Type: Cooperative Agreement

This Funding Opportunity Announcement encourages research project applications under the cooperative agreement (UG3/UH3) mechanism to address the development, optimization and validation of quantitative imaging software tools and methods for prediction and/or measurement of response to cancer therapies.

[NIH: High Impact, Interdisciplinary Science in NIDDK Research Areas \(RC2 Clinical Trial Optional\)](#)

POSTED: November 30, 2017

DEADLINE: Upcoming deadlines are June 1, 2018 and November 1, 2018.

Funding Instrument Type: Grant

The purpose of the High Impact, Interdisciplinary Science grants program is to support high impact ideas that may lay the foundation for new fields of investigation within the mission of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The interdisciplinary approach encouraged by this FOA is envisioned to generate a community research resource for the broader community, which may include discovery-based or hypothesis-generating science. The interdisciplinary research team should be able to provide an integrative plan of working together to effectively address the complex challenge at hand. This program will support research projects that accelerate critical breakthroughs, early and applied research on cutting-edge technologies, and new approaches to improve the synergy and interactions among multi- and interdisciplinary research teams, including sharing of data and other resources to further advance research in this area. This FOA seeks novel approaches in areas that address specific knowledge gaps, scientific opportunities, new technologies, data generation, or research methods that will advance the area in significant ways designed to accelerate scientific progress in the understanding, treatment and prevention of diseases within the mission of NIDDK.