Summer Seminars and Institutes for Higher Education Faculty
National Endowment for the Humanities
Due Date: 03/03/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=323551
The National Endowment for the Humanities (NEH) Division of Education Programs is accepting applications for the Summer Seminars and Institutes for Higher Education Faculty program. The purpose of this program is to provide higher education faculty across the nation the opportunity to broaden and deepen their engagement with the humanities. The one- to four-week professional development programs allow participants to explore recent developments in scholarship, teaching, and/or curriculum through study of a variety of humanities topics.

Institutes for Advanced Topics in the Digital Humanities
National Endowment for the Humanities
Due Date: 03/05/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=322632
The National Endowment for the Humanities (NEH) Office of Digital Humanities is accepting applications for the Institutes for Advanced Topics in the Digital Humanities program. The purpose of this program is to support national or regional (multistate) training programs for scholars, humanities professionals, and advanced graduate students to broaden and extend their knowledge of digital humanities. Through this program NEH seeks to increase the number of humanities scholars and practitioners using digital technology in their research and to broadly disseminate knowledge about advanced technology tools and methodologies relevant to the humanities.

Methods and Measurement in Research with Sexual and Gender Minority (SGM) Populations
Department of Health and Human Services, National Institutes of Health
Due Date: 03/13/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=323257
The goal of this FOA is to support methods and measurement research relevant to sexual and gender minority (SGM) populations. SGM populations include, but are not limited to, individuals who identify as lesbian, gay, bisexual, asexual, transgender, two-spirit, queer, and/or intersex. Individuals with same-sex or -gender attractions or behaviors and those with a difference in sex development are also included. These populations also encompass those who do not self-identify with one of these terms but whose sexual orientation, gender identity or expression, or reproductive development is characterized by non-binary constructs of sexual orientation, gender, and/or sex. The term “SGM status" encompasses self-identification as SGM by individuals or communities, as well as ascribed SGM status as perceived by others. Research projects are solicited in two areas: (1) measurement of SGM status and (2) measurement of SGM-related constructs. Projects must involve measurement research, i.e., research that examines the performance, utility, and acceptability of new or existing measures. Projects that simply use SGM-related measures to answer specific research questions will not be supported. Projects may involve the development and testing of new or adapted measures and/or the examination of the performance or utility of existing measures with SGM populations. Quantitative or mixed-methods approaches are encouraged. Purely qualitative studies are not a priority under this FOA. Primary data collection is limited to individuals in the US.
NSF Scholarships in Science, Technology, Engineering, and Mathematics Program
National Science Foundation
Due Date: 03/25/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=322907
A well-educated science, technology, engineering, and mathematics (STEM) workforce is a significant contributor to maintaining the competitiveness of the U.S. in the global economy. The National Science Foundation (NSF) Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) program addresses the need for a high quality STEM workforce in STEM disciplines supported by the program and for the increased success of low-income academically talented students with demonstrated financial need who are pursuing associate, baccalaureate, or graduate degrees in science, technology, engineering, and mathematics (STEM).[6], [16]. Recognizing that financial aid alone cannot increase retention and graduation in STEM, the program provides awards to Institutions of Higher Education (IHEs) to fund scholarships and to advance the adaptation, implementation, and study of effective evidence-based curricular and co-curricular activities that support recruitment, retention, transfer (if appropriate), student success, academic/career pathways, and graduation in STEM. The S-STEM program encourages collaborations among different types of participating groups, including but not limited to partnerships among different types of institutions; collaborations of STEM faculty and institutional, educational, and social science researchers; and partnerships among institutions of higher education and business, industry, local community organizations, national labs, or other federal or state government organizations, if appropriate. The program seeks to 1) increase the number of low-income academically talented students with demonstrated financial need obtaining degrees in S-STEM eligible disciplines and entering the workforce or graduate programs in STEM; 2) improve the education of future scientists, engineers, and technicians, with a focus on low-income academically talented students with demonstrated financial need; and 3) generate knowledge to advance understanding of how interventions or evidence-based curricular and co-curricular activities affect the success, retention, transfer, academic/career pathways, and graduation of low-income students in STEM. Scholars must be low-income, academically talented students with unmet financial need who are enrolled in an associate, baccalaureate or graduate degree program, with a major in an S-STEM eligible discipline. S-STEM Eligible Disciplines: Biological sciences (except medicine and other clinical fields) Physical sciences (including physics, chemistry, astronomy, and materials science) Mathematical sciences Computer and information sciences Geosciences Engineering Technology fields associated with the disciplines above (e.g. biotechnology, chemical technology, engineering technology, information technology).

FY 2020 Day of Service Grants
Corporation for National and Community Service
Due Date: 3/25/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=323858
The Day of Service grant competition includes funding for both September 11th Day of Service and Remembrance (September 11th) and Martin Luther King Jr. Day of Service (MLK). Applicant organizations may apply for either September 11th, MLK, or both. Applicants may not submit more than one application for each Day of Service. The purpose of the September 11th National Day of Service and Remembrance grant funding is to mobilize more Americans to engage in service activities that meet vital community needs and honor the sacrifice of those who lost their lives on September 11, 2001, or who rose in service as a result of that tragedy. The purpose of the Martin Luther King Jr. Day of Service grant funding is to mobilize more Americans to observe the Martin Luther King Jr. federal holiday as a day of service in communities, to encourage those who serve on this holiday to make a long-term commitment to community service, and to bring people together to focus on service to others.

OVW FY 2020 Research and Evaluation Initiative
Department of Justice, Office on Violence Against Women
Due Date: 03/25/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=323693
The purpose of the Office on Violence Against Women (OVW)’s Research and Evaluation (R&E) Initiative is to research and evaluate approaches to combating domestic/dating violence, sexual assault, and stalking. By generating more knowledge about strategies for serving victims and holding offenders accountable, communities that benefit from Violence Against Women Act (VAWA) funding will be better equipped to align their work with practices that are known to be effective, and they will be more capable of generating empirical knowledge on the efficacy of new and promising ways of doing things. R&E is designed to support researcher-practitioner partnerships and a broad range of methods, including qualitative, mixed-method, and quasi-experimental designs.
Environmental Literacy Grants: Supporting the education of K-12 students and the public for community resilience
Department of Commerce
Due Date: 03/26/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=321575
The goal of this funding opportunity is to build environmental literacy of K-12 students and the public so they are knowledgeable of the ways in which their community can become more resilient to extreme weather and/or other environmental hazards, and become involved in achieving that resilience. Projects should build the collective environmental literacy necessary for communities to become more resilient to the extreme weather and other environmental hazards they face in the short- and long-term. Building sufficient environmental literacy in a community means that these communities are composed of individuals who are supported by formal and informal education that develop their knowledge, skills, and confidence to: (1) reason about the ways that human and natural systems interact globally and where they live, including the acknowledgement of disproportionately distributed vulnerabilities; (2) participate in scientific and/or civic processes; and (3) consider scientific uncertainty, cultural knowledge, and diverse community values in decision making.

NEA Challenge America, FY2021
National Endowment for the Arts
Due Date: 04/09/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=323006
The Challenge America category offers support primarily to small and mid-sized organizations for projects that extend the reach of the arts to underserved populations -- those whose opportunities to experience the arts are limited by geography, ethnicity, economics, or disability. Age alone (e.g., youth, seniors) does not qualify a group as underserved; at least one of the underserved characteristics noted above also must be present. Provide details about the underserved audience you select in your application using relevant statistics and anecdotal information. Proposals should detail the efforts made to reach the identified underserved population. Grants are available for professional arts programming and for projects that emphasize the potential of the arts in community development.

Fellowships
National Endowment for the Humanities
Due Date: 04/08/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=323676
The National Endowment for the Humanities (NEH) Division of Research Programs is accepting applications for the Fellowships program. The purpose of this program is to support individual scholars pursuing projects that embody exceptional research, rigorous analysis, and clear writing. Fellowships provide recipients time to conduct research or to produce books, monographs, peer-reviewed articles, e-books, digital materials, translations with annotations or a critical apparatus, or critical editions resulting from previous research.

Research and Evaluation of Trafficking in Persons, Fiscal Year 2020
Department of Justice, National Institute of Justice
Due Date: 04/20/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=323805
With this solicitation, NIJ continues to build upon its research and evaluation efforts to better understand, prevent, and respond to trafficking in persons in the United States. Applicants should propose research projects that first and foremost have clear implications for criminal justice policy and practice in the United States. This year, NIJ is particularly interested in research responding to the following priority areas: 1. Labor trafficking research. 2. Demand reduction research. 3. Research to identify the health and wellness effects of trafficking victimization. 4. Profiling recruitment Tactics.
Environmental Convergence Opportunities in Chemical, Bioengineering, Environmental, and Transport Systems
National Science Foundation
Due Date: 04/30/2020

Creating solutions to pressing environmental and sustainability challenges will require input and imaginative approaches from various fields, perspectives, and disciplines. The National Academies of Sciences, Engineering and Medicine (NASEM), in their report "Environmental Engineering for the 21st Century: Addressing Grand Challenges," identified five critical challenges we must address as a society: Sustainably supply food, water, and energy, Curb climate change and adapt to its impacts, Design a future without pollution and waste, Create efficient, healthy, and resilient cities, Foster informed decisions and actions. The report further states, "The challenges provide focal points for evolving environmental engineering education, research, and practice toward increased contributions and a greater impact. Implementing this new model will require modifications in educational curriculum and creative approaches to foster interdisciplinary research on complex social and environmental problems." This solicitation aims to address these grand challenges by supporting a collaborative research model that seamlessly integrates sustainability, environmental engineering, and process science and engineering. Accordingly, the Environmental Convergence Opportunities in Chemical, Bioengineering, Environmental, and Transport Systems (ECO-CBET) solicitation will support activities that confront vexing environmental engineering and sustainability problems by uncovering and incorporating fundamental knowledge to design new processes, materials, and devices from a systems-level perspective. Projects should be compelling and reflect sustained, coordinated efforts from interdisciplinary research teams. A key objective of the solicitation is to encourage conversations and robust collaborations amongst the chemical process, transport phenomena, bioengineering, and environmental and sustainability research communities such that unanticipated solutions may arise. Furthermore, training the future workforce to actively engage and be successful in interdisciplinary research will be necessary to continually innovate given the scope of the environmental problems faced by our global community.

EHR Core Research (ECR): Building Capacity in STEM Education Research
National Science Foundation
Due Date: 06/05/2020

ECR's Building Capacity for STEM Education Research (ECR: BCSER) solicitation supports projects that build individuals’ capacity to carry out high quality STEM education research that will enhance the nation’s STEM education enterprise and broaden the pool of researchers that can conduct fundamental research in STEM learning and learning environments, broadening participation in STEM fields, and STEM workforce development. Specifically, ECR: BCSER supports activities that enable early and mid-career researchers to acquire the requisite expertise and skills to conduct rigorous fundamental research in STEM education. ECR: BCSER seeks to fund research career development activities on topics that are relevant to qualitative and quantitative research methods and design, including the collection and analysis of new qualitative or quantitative data, secondary analyses using extant datasets, or meta-analyses. This career development may be accomplished through investigator-initiated projects or through professional development institutes that enable researchers to integrate methodological strategies with theoretical and practical substantive issues in STEM education. Early and mid-career faculty new to STEM education research, particularly underrepresented minority faculty and faculty at minority-serving and two-year institutions, are encouraged to submit proposals. As a special emphasis under this solicitation, ECR: BCSER seeks proposals that will result in a single award for the development and implementation of an ECR Data Resource Hub. The hub will facilitate data sharing and analysis and provide technical assistance to advance data skills, tools, and resources across the STEM education research community.

Archives Collaboratives
National Archives and Records Administration
Due Date: 06/10/2020

The National Historical Publications and Records Commission seeks projects that will make collections from small and under-represented archives more readily available for public discovery and use. The grant program will fund Archives Collaboratives to share best practices, tools, and techniques; assess institutional strengths and opportunities; and promote management structures for long-term sustainability and growth. Archives Collaboratives must consist of three or more organizations. They may: be located in the same community, state, or geographic region, be “virtual” or online collaboratives, share affinities among the scope and subject matter of their collections, have similar organizational missions, serve similar types of user communities.
Publishing Historical Records in Documentary Editions
National Archives and Records Administration
Due Date: 06/10/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=322941
The National Historical Publications and Records Commission seeks proposals to publish documentary editions of historical records. Projects may focus on broad historical movements in U.S. history, such as law (including the social and cultural history of the law), politics, social reform, business, military, the arts, and other aspects of the national experience, or may be centered on the papers of major figures from American history. Whether conceived as a thematic or a biographical edition, the historical value of the records and their expected usefulness to broad audiences must justify the costs of the project. The Commission is especially interested in projects to commemorate the 250th anniversary of the Declaration of Independence. We encourage applications that use collections to examine the ideals behind the founding of the United States and the continual interpretation and debate over those ideals over the past 250 years. We welcome projects that engage the public, expand civic education, and promote understanding of the nation’s history, democracy, and culture from the founding era to the present day. The goal of this program is to provide access to, and editorial context for, the historical documents and records that tell the American story. Applicants should demonstrate familiarity with the best practices recommended by the Association for Documentary Editing (ADE) or the Modern Language Association (MLA) Committee on Scholarly Editions.

Digital Humanities Advancement Grants
National Endowment for the Humanities
Due Date: 06/30/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=322055
The National Endowment for the Humanities (NEH) Office of Digital Humanities is accepting applications for the Digital Humanities Advancement Grants program. The program supports innovative, experimental, and/or computationally challenging digital projects at different stages of their lifecycles, from early start-up phases through implementation and sustainability. Experimentation, reuse, and extensibility are hallmarks of this program, leading to work that can scale to enhance scholarly research, teaching, and public programming in the humanities.

U.S. Embassy Banjul PAS Annual Program
Department of State – U.S. Mission to Gambia
Due Date: 07/15/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=321859
The U.S. Embassy Banjul Public Affairs Section (PAS) of the U.S. Department of State is pleased to announce that funding is available through its Public Diplomacy Small Grants Program. Purpose of Small Grants: PAS in Banjul, The Gambia invites proposals for programs that strengthen cultural ties between the United States and The Gambia through cultural and exchange 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/sin a specific field that will promote increased understanding of U.S. policy and perspectives. Priority Program Areas: Strengthening Democratic Institutions, Empowering Civil Society, Bolstering Education, Improving the capacity of Gambians to lead the country’s development.

U.S. Embassy Brussels PAS Annual Program
Department of State – U.S. Mission to Belgium
Due Date: 07/20/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=322765
PAS Brussels invites proposals for projects that strengthen ties between the United States and Belgium by highlighting shared values and promoting bilateral cooperation. Grant proposals must convey an American cultural element, support a priority program area (see below), or include a 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. Priority Program Areas: Programs that demonstrate active partnership between the United States and Belgium to address new and evolving security challenges; Programs that highlight U.S.-Belgian cooperation on countering terrorism and transnational threats; Programs that strengthen the transatlantic economic ties between Belgians and Americans; Programs that support a long-term term investment in U.S.-Belgian ties through educational, cultural, professional, and other exchanges between our two countries; and Programs that have a national reach and impact by linking like-minded organizations across linguistic and regional divides.
U.S. Consulate General Naha Annual Program
Department of State – U.S. Mission to Japan
Due Date: 08/01/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=323093
PAS Naha invites Statement of Interest (SOI) for projects that strengthen cultural ties between the U.S. and Japan with an emphasis on Okinawa through cultural and exchange 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. All programs must take place on Okinawa or creates opportunities for residents of Okinawa. Examples of PAS Small Grants Program projects include, but are not limited to: Academic and professional lectures, seminars and speaker programs; Artistic and cultural workshops, joint performances and exhibitions; or Professional and academic exchanges and projects.

U.S. Embassy Yaounde PAS Annual Program
Department of State – U.S. Mission to Cameroon
Due Date: 08/15/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=322074
The PAS grants program supports projects proposed by U.S. and Cameroonian academic, cultural, educational, and other non-profit organizations and/or individuals that promote U.S. values, increase understanding between U.S. and Cameroonian people and institutions, and/or support U.S. Embassy goals of promoting good governance and transparency, economic prosperity, and peace and security. All programs must include an element of American culture or society, or connection with American expert/s, organization/s, or institution/s that will promote increased understanding of U.S. policy and perspectives. Examples of PAS Small Grant Program programs include, but are not limited: U.S. experts conducting lectures, seminars, or speaking tours with Cameroonian audiences, Artistic and cultural workshops, joint performances, and exhibitions, Cultural heritage conservation and preservation programs, Professional and academic exchanges and programs, Libraries, community centers, or other institutions that are interested in becoming an American Space, Programs developed by an alumnus/a of a U.S. sponsored or supported educational or professional exchange program, Projects to promote English language teaching skills or widen access to books and other sources of information about the United States.

NSF Dynamic Language Infrastructure – NEH Documenting Endangered Languages
National Science Foundation
Due Date: 09/15/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=320854
This funding partnership between the National Science Foundation (NSF) and the National Endowment for the Humanities (NEH) supports projects to develop and advance knowledge concerning dynamic language infrastructure in the context of endangered human languages—languages that are both understudied and at risk of falling out of use. Made urgent by the imminent loss of roughly half of the approximately 7000 currently used languages, this effort aims to exploit advances in information technology to build computational infrastructure for endangered language research. The program supports projects that contribute to data management and archiving, and to the development of the next generation of researchers. Funding can support fieldwork and other activities relevant to the digital recording, documentation and analysis, and archiving of endangered language data, including the preparation of lexicons, grammars, text samples, and databases. Funding will be available in the form of one- to three-year senior research grants, fellowships from six to twelve months, and conference proposals.
Youth Engagement, Education, and Employment
Department of the Interior – Fish and Wildlife Service
Due Date: 09/15/2020
The U.S. Fish and Wildlife Service's (USFWS or Service) National Wildlife Refuge System (NWRS) is accepting proposals from non-profit, state, and local government youth and veteran serving organizations 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. Under this program, individuals and/or groups of youth, young adults, and veterans: Will be introduced to natural resource careers through hands-on work with, and training by, natural resource professionals employed by the USFWS may be given the opportunity to serve both seasonal and or year-round assignments. Will enhance conservation stewardship; increase outdoor recreation opportunities for all Americans and improve the management of game species and their habitats for this generation and beyond. Will be introduced to various real-world conservation and rehabilitation activities such as invasive species management, habitat restoration, wildlife management, public education and interpretation, disaster response and mitigation, and communications, mixed with informal and formal training sessions directed by USFWS employees during assignments. Will enhance and expand public access to lands and waters. Will be provided feedback for their future growth and may receive consideration for future employment with the USFWS.

Complex Integrated Multi-Component Projects in Aging Research
Department of Health and Human Services – National Institutes of Health
Due Date 09/25/2022
This FOA allows for applications that propose large-scale, complex research projects with multiple highly integrated components focused on a common research question relevant to aging. Such projects will likely involve an integrated multidisciplinary team of investigators within a single institution or a consortium of institutions.

National Sea Grant College Program 2020 Special Projects
Department of Commerce
Due Date: 09/30/2020
The National Sea Grant College Program was enacted by U.S. Congress in 1966 (amended in 2008, Public Law 110-394) to support leveraged federal and state partnership that harness the intellectual capacity of the nation’s universities and research institutions to solve problems and generate opportunities in coastal communities. The purpose of this notice is to request proposals for special projects consistent with the focus areas outlined in the National Sea Grant College Program’s (Sea Grant) strategic plan, and to provide the general public with information and guidelines on how Sea Grant will select proposals and administer Federal assistance under this announcement. This announcement is a mechanism to encourage research or other projects that are not normally funded through Sea Grant national competitions. This opportunity is open only to Sea Grant Programs.

Annual Program Statement, Public Affairs, U.S. Embassy Harare
Department of State – U.S. Mission to Zimbabwe
Due Date 09/30/2020
https://www.grants.gov/web/grants/view-opportunity.html?oppId=322155
The U.S. Embassy Zimbabwe, Public Affairs Section is seeking proposals for projects throughout the fiscal year that; promote educational and cultural exchange, build the rule of law and fiscal transparency, encourage civic discourse and action against violence and corruption, support professionalism of the media, promote freedom of expression and information encourage entrepreneurship, economic growth, innovation and sound business practices, empower women and youth with specific knowledge of women’s rights and skills to enhance economic advancement, promote social inclusion and tolerance of underserved communities such as disabled persons, minority ethnic groups, LGBTQI, and those in remote rural areas, promote greater health awareness and livelihoods in HIV prevention and AIDS treatment, promote natural resource management and sustainable environmental practices including mitigation against climate change, combat the trafficking of animals, humans, and illicit materials and substances.
Women and Minorities in STEM Fields
Department of Agriculture
National Institute of Food and Agriculture
Due Date: 1/21/2021
The purpose of this program is to support research, education/teaching, and extension projects that increase participation by women and underrepresented minorities from rural areas in STEM. NIFA intends this program to address educational needs within broadly defined areas of food, agriculture, natural resources, and human (FANH) sciences. Applications recommended for funding must highlight and emphasize the development of a competent and qualified workforce in the FANH sciences. WAMS-funded projects improve the economic health and viability of rural communities by developing research and extension initiatives that focus on new and emerging employment opportunities in STEM occupations. Projects that contribute to the economic viability of rural communities are also encouraged.

Secure and Trustworthy Cyberspace (SaTC)
National Science Foundation
Due Date: Ongoing
Society’s overwhelming reliance on complex cyberspace has exposed its fragility and vulnerabilities that defy existing cyber-defense measures; corporations, agencies, national infrastructure and individuals continue to suffer cyber-attacks. Achieving a truly secure cyberspace requires addressing both challenging scientific and engineering problems involving many components of a system, and vulnerabilities that stem from human behaviors and choices. Examining the fundamentals of security and privacy as a multidisciplinary subject can lead to fundamentally new ways to design, build and operate cyber systems, protect existing infrastructure, and motivate and educate individuals about cybersecurity. The goals of the SaTC program are aligned with the National Science and Technology Council’s (NSTC) Federal Cybersecurity Research and Development Strategic Plan (RDSP) and National Privacy Research Strategy (NPRS) to protect and preserve the growing social and economic benefits of cyber systems while ensuring security and privacy. The RDSP identified six areas critical to successful cybersecurity research and development: (1) scientific foundations; (2) risk management; (3) human aspects; (4) transitioning successful research into practice; (5) workforce development; and (6) enhancing the research infrastructure. The NPRS, which complements the RDSP, identifies a framework for privacy research, anchored in characterizing privacy expectations, understanding privacy violations, engineering privacy-protecting systems, and recovering from privacy violations. In alignment with the objectives in both strategic plans, the SaTC program takes an interdisciplinary, comprehensive and holistic approach to cybersecurity research, development, and education, and encourages the transition of promising research ideas into practice. The SaTC program welcomes proposals that address cybersecurity and privacy, and draw on expertise in one or more of these areas: computing, communication and information sciences; engineering; education; mathematics; statistics; and social, behavioral, and economic sciences. Proposals that advance the field of cybersecurity and privacy within a single discipline or interdisciplinary efforts that span multiple disciplines are each welcome. Proposals must be submitted pursuant to one of the following designations, each of which may have additional restrictions and administrative obligations as specified in this program solicitation. CORE: This designation is the main focus of the SaTC research program, spanning the interests of NSF’s Directorates for Computer and Information Science and Engineering (CISE), Engineering (ENG), Mathematical and Physical Sciences (MPS), and Social, Behavioral and Economic Sciences (SBE). EDU: The Education (EDU) designation will be used to label proposals focusing entirely on cybersecurity education. TTP: The Transition to Practice (TTP) designation will be used to label proposals that are focused exclusively on transitioning existing research results to practice.
The Environmental Sustainability program is part of the Environmental Engineering and Sustainability cluster together with 1) the Environmental Engineering program and 2) the Nanoscale Interactions program. The goal of the Environmental Sustainability program is to promote sustainable engineered systems that support human well-being and that are also compatible with sustaining natural (environmental) systems. These systems provide ecological services vital for human survival. Research efforts supported by the program typically consider long time horizons and may incorporate contributions from the social sciences and ethics. The program supports engineering research that seeks to balance society's need to provide ecological protection and maintain stable economic conditions. There are four principal general research areas that are supported: Industrial ecology: Topics of interest include advancements in modeling such as life cycle assessment, materials flow analysis, input/output economic models, and novel metrics for measuring sustainable systems. Innovations in industrial ecology are encouraged. Green engineering: Research is encouraged to advance the sustainability of manufacturing processes, green buildings, and infrastructure. Many programs in the Engineering Directorate support research in environmentally benign manufacturing or chemical processes. The Environmental Sustainability program supports research that would affect more than one chemical or manufacturing process or that takes a systems or holistic approach to green engineering for infrastructure or green buildings. Improvements in distribution and collection systems that will advance smart growth strategies and ameliorate effects of growth are research areas that are supported by Environmental Sustainability. Innovations in management of storm water, recycling and reuse of drinking water, and other green engineering techniques to support sustainability may also be fruitful areas for research. Ecological engineering: Proposals should focus on the engineering aspects of restoring ecological function to natural systems. Engineering research in the enhancement of natural capital to foster sustainable development is encouraged. Earth systems engineering: Earth systems engineering considers aspects of large scale engineering research that involve mitigation of greenhouse gas emissions, adaptation to climate change, and other global concerns. All proposed research should be driven by engineering principles, and be presented explicitly in an environmental sustainability context. Proposals should include involvement in engineering research of at least one graduate student, as well as undergraduates. Incorporation of aspects of social, behavioral, and economic sciences is welcomed.