

ARTS, HUMANITIES, and INTERNATIONAL

Dangers and Opportunities of Technology: Perspectives from the Humanities
National Endowment for the Humanities (NEH)

Notice seeking applications to supports humanistic research that examines the relationship between technology and society. NEH is particularly interested in projects that examine current social and cultural issues that are significantly shaped by technology.

Applications are due February 2, 2023. The maximum award amount is \$150,000.

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

FY2022 Historic Preservation Fund- Save America's Treasures Collection Grants
Department of the Interior (Interior), National Park Service (NPS)

Notice seeking applications provide preservation and/or conservation assistance to nationally significant historic properties and collections. Grants are awarded through a competitive process and require a dollar-for-dollar, non-Federal match, which can be cash or documented in-kind.

Applications are due December 20, 2022. Approximately \$26.5 million is available to fund 70 awards.

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

FY2022 Historic Preservation Fund- Save America's Treasures Preservation Grants
Department of the Interior (Interior), National Park Service (NPS)

Notice seeking applications provide preservation and/or conservation assistance to nationally significant historic properties and collections. Grants are awarded through a competitive process and require a dollar-for-dollar, non-Federal match, which can be cash or documented in-kind.

Applications are due December 20, 2022. Approximately \$26.5 million is available to fund 55 awards.

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

EDUCATION and ECONOMIC & COMMUNITY DEVELOPMENT

FY22 Advanced Driver Assistance Systems (ADAS) for Transit Buses Demonstration and Automated Transit Bus Maintenance and Yard Operations Demonstration
U.S. Department of Transportation (DOT), Federal Transit Administration (FTA)

Notice seeking applications innovative projects to demonstrate market-ready or near market-ready ADAS technologies for use in revenue service to assess technology readiness and effectiveness, address technical issues, identify benefits and costs, and measure impacts and to execute the first phase and, if funding becomes available, the second phase of Automation for Maintenance and Yard Operations demonstrations.

Applications are due November 21, 2022. Approximately \$6.5 million is available. The maximum Federal share of project costs under this program is limited to 80 percent.

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

Partners for Fish and Wildlife FY23
Fish and Wildlife Service (FWS), Department of the Interior (Interior)

Notice seeking applications that provides direct technical assistance and financial assistance in the form of cooperative and grant agreements to private landowners to restore and conserve fish and wildlife habitat for the benefit of federal trust resources.

Applications are due September 30, 2023. An estimated 500 awards of up to \$750,000 is available.

LINKS: [Grants.gov](#)

Racial Equity in STEM Education
National Science Foundation (NSF)

Notice seeking proposals to support bold, groundbreaking, and potentially transformative projects that contribute to advancing racial equity in STEM education and workforce development through practice and/or fundamental or applied research.

Proposals are due January 17, 2023. Approximately \$15 to \$25 million is available to fund 15 to 35 awards.

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

HEALTH and MENTAL HEALTH

Advancing Methods for Safe, Noninvasive, Real Time Assessment of Placenta Development and Function Across Pregnancy (R01 and R21 Clinical Trial Not Allowed)
National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice seeking applications that seek to advance or clinically validate emerging novel approaches for the development of safe, real-time, non-invasive (or minimally invasive) methods to assess the development and function of the human placenta across pregnancy.

R01 applications are due February 5, 2023, October 5, 2023, and October 5, 2024. R21 applications are due February 16, 2023, October 16, 2023, and October 16, 2024.

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

AHRQ Mentored Research Scientist Career Development Award (K01)
Agency for Healthcare Research and Quality (AHRQ), Department of Health and Human Services (HHS)

Notice seeking applications to help ensure that a diverse pool of highly trained scientists is available in appropriate scientific disciplines to address the Nation's health services research needs. This AHRQ program provides support and "protected time" to individuals with a research doctoral degree for an intensive, supervised research career development experience in health services research.

Applications are due annually on October 12, February 12, and June 12.

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

Diversity Centers for Genome Research (UG3-UH3 Clinical Trials Optional)
National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice seeking applications to establish Genomic Research Centers at Minority Serving Institutions (MSIs) as defined in Part 2, section III of the FOA. The MSIs must have a mission to serve historically underrepresented populations in biomedical research that award doctorate degrees in the health professions or the sciences related to health, and have received an average of less than \$50 million per

year in NIH support and less than \$25 million per year of R01 total cost of NIH support for the past three fiscal years.

Applications are due December 6, 2022, June 23, 2023, and June 24, 2024. Optional letters of intent are due 30 days prior to the application due date. Approximately \$1.5 million is available to fund three to five awards.

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

DOD USAMRDC FY23-FY27 BROAD AGENCY ANNOUNCEMENT for Extramural Medical Research Army (Army), Department of Defense (Defense)

Notice seeking applications for basic and applied research to support scientific study and experimentation directed toward advancing the state-of-the-art or increasing knowledge or understanding rather than focusing on development of a specific system or hardware solution. Research and development funded through this BAA are intended and expected to benefit and inform both military and civilian medical practice and knowledge.

Proposals are due any time until September 30, 2027.

LINKS: [Grants.gov](#)

Military Medical Photonics Program
Department of Defense (Defense), Air Force Office of Scientific Research (AFOSR)

Notice seeking proposals for broad-based research and development aimed at using lasers and other light source technology to develop applications in medicine, photobiology, surgery, and closely related materials sciences, with applications to combat casualty care and other military medical problems.

Proposals are due December 9, 2022. Questions are due November 15, 2022. Up to \$10 million per year is available to fund five awards.

LINKS: [Grants.gov](#)

SCIENCE, TECHNOLOGY, ENGINEERING, and MATHEMATICS

Cooling Operations Optimized for Leaps in Energy, Reliability and Carbon Hyperefficiency for Information Processing Systems (COOLERCHIPS)
Department of Energy (Energy), Advanced Research Projects Agency Energy (ARPA-E)

Notice seeking applications that will develop novel high performance, high reliability cooling systems for compute electronics. These cooling systems will enable a new class of power-dense computational systems, data centers, and modular EDGE systems that will be cooled using 5% or less of the IT load at any location in the United States at any time of the year.

Required concept papers are due October 26, 2022. Questions are due October 16, 2022. Approximately \$42 million is available to fund 15 to 20 awards. Cost share of 20 percent is required.

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

Heliostat Technology Advancement
Department of Energy (Energy), National Renewable Energy Laboratory (NREL)

Notice seeking proposals to fund research, development, validation, and deployment of low-cost heliostats for concentrating solar power (CSP) and concentrating solar thermal (CST) applications. Heliostats are a

critical component of CSP power tower technologies. A heliostat field represents 30%–50% of the direct system cost and can be a large component of plant operations and maintenance (O&M) costs.

Proposals are due November 8, 2022. A webinar will be held October 10, 2022 at 4:00 p.m. MT. Questions are due October 14, 2022. Approximately \$3 million is available to fund four to eight awards. The cost share must be at least 20%.

LINKS: [Contract Opportunities](#), [Agency Site](#)

Space Power Conversion Electronics (SPCE)
Defense Advanced Research Projects Agency (DARPA), Department of Defense (Defense), Microsystems Technology Office (MTO)

Notice seeking proposals for the development of compact point-of-load (POL) voltage converters that are radiation-tolerant and efficient.

Abstracts are due October 18, 2022. Proposals are due December 6, 2022. Multiple awards are anticipated.

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

Cyber Agents for Security Testing and Learning Environments (CASTLE)
Defense Advanced Research Projects Agency (DARPA), Department of Defense (Defense), Information Innovation Office (I2O)

Notice announcing a proposers' day for Cyber Agents for Security Testing and Learning Environments. The CASTLE program seeks to develop an AI-toolkit to instantiate realistic network environments and train cyber agents to enable resilient network operations against advanced persistent threats (APT). CASTLE will formulate network hardening as a reinforcement learning (RL) problem and train defensive agents in open, evolving, and adversarial environments that mimic actual networks.

The Proposers Day will be held as a hybrid event on October 24, 2022. Session 1 will be from 9:00 a.m. to 12:00 p.m. (ET), and Session 2 will be from 1:00 p.m. to 4:00 p.m. (ET). It will be held at the DARPA Conference Center, located at 675 N. Randolph Street, Arlington, Virginia. Advance registration is required to attend in person.

LINKS: [Contract Opportunities](#), [Agency Site](#)

NASA Astrophysics Advisory Committee
National Aeronautics and Space Administration (NASA)

Notice announcing a meeting of the Astrophysics Advisory Committee. The purpose of the meeting is to solicit from the scientific community and other persons, scientific and technical information relevant to program planning.

The meeting will be held Monday, October 17, 2022, 9 a.m.-5 p.m., Tuesday, October 18, 2022, 9 a.m.-2 p.m., ET. The meeting will be held virtually only.

LINKS: [Federal Register](#)

National Artificial Intelligence Advisory Committee
National Institute of Standards and Technology (NIST), Department of Commerce (Commerce)

Notice announcing a meeting of the National Artificial Intelligence Advisory Committee. The purpose of the meeting to discuss how to direct their input into actionable recommendations. These final recommendations

will be presented to the President and National Artificial Intelligence Initiative Office. The final agenda will be posted to the NAIAC website: <https://www.ai.gov/naiac/>.

The meeting will be held on Wednesday, October 12, 2022, from 9:00 a.m. to 4:30 p.m. and Thursday, October 13, 2022, from 9:30 a.m. to 12:30 p.m. PT via webinar.

LINKS: [Federal Register](#)

Extravehicular Activity and Human Surface Mobility Technologies - A New Partnering Opportunity
National Aeronautics and Space Administration (NASA), Johnson Space Center (JSC)

Notice seeking partners to advance the technologies associated with human mobility and lunar surface infrastructure in support of NASA's Artemis missions. The vision is to provide safe, reliable, and effective Extravehicular Activity (EVA) and Human Surface Mobility (HSM) capabilities that allow astronauts to survive and work outside the confines of a spacecraft on and around the Moon. Artemis missions will return humans to the surface of the Moon using innovative technologies to explore more of the lunar surface than ever before.

Responses are accepted any time at <https://nasajsc.secure.force.com/StatementofInterest>

LINKS: [Contract Opportunities](#), [Solicitation](#)