Funding Opportunities as of June 9, 2021

Opportunities Listed by Deadlines

1. **DOE to Provide $2M for Traineeship in Isotope R&D and Production**
   Deadline: June 14, 2021 by 5 PM ET

   The U.S. Department of Energy (DOE) announced up to $2 million to establish a traineeship program to advance workforce development in the field of isotope production, processing, and associated research, with preference to minority serving institutions. The DOE Isotope Program (IP), managed by the Office of Science, plays a critical role in advancing the fields of medicine, national security, domestic and global industry, and basic scientific research through the development and provision of isotopes that are novel or in short supply.

   This traineeship program supports training, research, and production experiences for undergraduate and graduate students in related fields with the goal to develop the next generation workforce in isotope production and processing. The traineeship places an emphasis on increasing diversity in the workforce by giving preference to proposals that partner with institutions that serve underrepresented groups.

   National laboratories, universities, and nonprofits will be eligible to submit applications to act as Isotope Traineeship Coordination (ITC) sites for the two-year awards, which will be selected based on peer review. ITCs will be responsible for several key program aspects, including student recruitment, establishing peer support groups for students, and providing training for mentors. Traineeships will include mentoring, coursework, research, and isotope production experiences for students.

   The DOE Isotope Program envisions that between one and four ITC sites will be funded; it is anticipated that up to $1 million will be available in Fiscal Year (FY) 2021, with an additional $1 million in funding anticipated in FY 2022, for a total of $2 million over the two-year grant period. All funding is contingent upon congressional appropriations. ITCs must promote a safe, diverse, equitable and inclusive environment that reaches all classes protected by Federal non-discrimination statutes and policies. Letters of intent are not required for this solicitation.

   Download the [Funding Opportunity Announcement](#) here.

2. **DOE Announces $12M to Advance Geothermal Energy Technologies**
   Deadline: June 15, 2021, 5 PM EDT

   The U.S. Department of Energy (DOE) announced up to $12 million for technologies that can make geothermal systems more efficient for clean, renewable energy production. This funding will help scientists and engineers unlock the full potential of geothermal power to help tackle the climate crisis, and achieve the Biden Administration’s goal of net-zero carbon emissions by 2050.
Enhanced Geothermal Systems (EGS) are man-made reservoirs created by injecting fluid into “hot rock,” which is heated by the natural warmth of the Earth’s core. The fluid re-opens pre-existing fractures, allowing it to circulate through the hot rock, and bring the heated water to the surface. That hot water becomes steam that spins a turbine, creating clean, renewable energy.

This funding opportunity will support the research, development, demonstration, and deployment of technologies and techniques to control the fluid flow in EGS reservoirs, enhancing the connectivity of pre-existing fracture networks and optimizing them for heat mining. This ability to customize reservoirs will increase their efficiency and longevity—driving down EGS costs, reducing the risk of development, and accelerating the path towards widespread commercialization.

The 2019 GeoVision study by DOE’s Geothermal Technologies Office (GTO) concluded that with technology improvements like those funded by today’s announcement, geothermal power generation could increase 26-fold, deploying 60 gigawatts-electric (GWe) of clean energy by 2050. Despite that vast potential, there are only 3.7 GWe of geothermal energy currently installed in the United States. GTO is using its research and development portfolio to advance technologies and projects that can rapidly increase that number, while supporting thousands of good-paying jobs for American workers—including those in the oil and gas industries that already have matching skills and expertise.

More information about the funding opportunity HERE.

   Deadline: June 18, 2021
   - Open to researchers from all institutions – including those from academia, industry, and government agencies.
   - INCITE focuses on large-scale scientific computing projects that require the power and scale of DOE’s leadership-class supercomputers.
   - The program will award up to 60% of the allocable time on Summit, the OLCF’s 200-petaflop IBM AC922 machine, and Theta, the ALCF’s 12-petaflop Cray XC40 system.

Details Here

4. DOE Announces $75M to Accelerate Technologies for the Decarbonization of the Natural Gas Power and Industrial Sectors
   Deadline: June 21, 2021, 11:59 PM ET


The DOE-FE Carbon Capture Program works to identify and advance technologies with the goal of decreasing the cost, improving efficiency, and promoting strategic demonstration and deployment of carbon capture. This funding is focused on carbon capture and storage for power generation and industrial applications, with a goal of commercial deployment by 2030. By developing innovative technologies to decarbonize natural gas and industrial facilities and by supporting their commercial deployment, this FOA will support the U.S. in achieving a carbon pollution-free power sector by 2035 and a net-zero carbon pollution economy by 2050.

Notably, this FOA, for the first time, will require applicants to submit a comprehensive summary of both environmental justice implications and jobs impacts. The jobs analysis focuses on the creation of jobs located in power plants and industrial communities that are economically distressed and/or have been disproportionately harmed by the adverse environmental impacts of these industries. Applicants will be asked to discuss not only the nature of the jobs, but also recruitment strategies for underrepresented groups and workers from the local community.

Selected projects will fall under three areas of interest (AOIs):
   - AOI-1: Carbon Capture R&D: Bench-Scale Testing of Highly Efficient Components and Processes for NGCC Plants.

Download the FOA here.

5. **NASA NSPIRE University Leadership Initiative**
   **Deadline:** Mandatory Short Proposal - June 22, 2021, Final proposal by invitation.
   The University Leadership Initiative (ULI) provides the opportunity for university teams to exercise technical and organizational leadership in proposing unique technical challenges in aeronautics, defining multi-disciplinary solutions, establishing peer review mechanisms, and applying innovative teaming strategies to strengthen the research impact.

   Research proposals are sought in seven ULI topic areas:
   - **Topic 1:** Safe, Efficient Growth in Global Operations (Strategic Thrust 1)
   - **Topic 2:** Innovation in Commercial Supersonic Aircraft (Strategic Thrust 2)
   - **Topic 3:** Ultra-Efficient Subsonic Transports (Strategic Thrust 3)
   - **Topic 4:** Safe, Quiet, and Affordable Vertical Lift Air Vehicles (Strategic Thrust 4)
   - **Topic 5:** In-Time System-Wide Safety Assurance (Strategic Thrust 5)
   - **Topic 6:** Assured Autonomy for Aviation Transformation (Strategic Thrust 6)
   - **Topic 7:** Zero Emission Aviation

   This solicitation will utilize a two-step proposal submission and evaluation process. The initial step is a short mandatory Step-A proposal due June 22, 2021. Those offerors submitting the most highly rated Step-A proposals will be invited to submit a Step-B proposal. All proposals must be submitted electronically through NSPIRES at [https://nspires.nasa.gov/external/](https://nspires.nasa.gov/external/).

   An Applicant's Workshop will be held on Thursday April 15, 2021; 1:00-3:00 p.m. ET [https://uli.arc.nasa.gov/applicants-workshops/workshop5](https://uli.arc.nasa.gov/applicants-workshops/workshop5)

   See the solicitation here.

   **Deadline:** June 30, 2021
   The US Department of Energy, the Israel Ministry of Energy, jointly with the Israel Innovation Authority, and the BIRD Foundation invite you to apply for grant funding through “BIRD Energy.” This program develops innovation through US - Israel cooperation on a range of clean energy technologies, including renewable energy, energy efficiency, natural gas, and energy - water technologies.

   See BIRD's website for submission details.

7. **Request for Proposals - $300k Available - Energy and Public Health: Building the Foundation**
   **Deadline:** July 14, 2021
   The intersections of energy systems on public health occur at all points along the energy system lifecycle and may produce both positive and negative outcomes, many times placing undue burden on vulnerable populations and disadvantaged communities. Public health considerations in energy technology development is a nascent, but growing, field of study. GT researchers are in a position to contribute to areas of great need that may help differentiate Georgia Tech at key topic intersections.

   Proposals should be focused around one or more of the following objectives, particularly around facilitating projects and collaborations that would be difficult to fund from other entities:
   1. To facilitate and amplify collaborations
   2. To nucleate teams capable of pursuing follow-on funding or large centers (e.g., NSF ERC, foundation grants, DOE/NIH awards)
   3. To demonstrate areas where GT and its partners can provide thought leadership
   4. Roadmaps, whitepapers, or other thought leadership products that can provide insight and guidance to society and policymakers
   5. Findings or market insight useful to corporate executives or investors
6. Support external fellows who will provide a value-add to the Georgia Tech community working in the field of energy and public health research

Awards will range from $3k to $120k. Proposal submissions will be accepted until July 14, 2021. Awardees will be announced by August 10, 2021 with funding to commence August 15, 2021.

Visit the InfoReady Listing for complete details. Please address questions to Sharon Murphy,mailto:smurphy77@gatech.edu.

8. **DOE Announces $30 Million for Quantum Information Science to Tackle Emerging 21st Century Challenges**

   **Deadline: Open until Sept. 30, 2021**

The U.S. Department of Energy (DOE) will provide $30 million for Quantum Information Science (QIS) research that helps scientists understand how nature works on an extremely small scale—100,000 times smaller than the diameter of a human hair. QIS can help our nation solve some of the most pressing and complex challenges of the 21st century, from climate change to national security. Watch this video to learn more about QIS.

QIS helps researchers discover new ways to measure, analyze, process, and communicate information. Potential applications for this work range from quantum computers to enable complex power forecasting to prevent outages during extreme weather events, to quantum devices to enable new smart windows, clothes, and buildings that can change their properties on demand. This funding opportunity is focused on developing advanced capabilities for synthesizing, constructing, and understanding quantum structures and phenomena, as well as making these capabilities available to the greater scientific community via access to DOE’s five Nanoscale Science Research Centers (NSRCs).

All five NSRCs will be selected based on peer review, and eligible to lead applications for awards of up to three years. DOE’s Office of Basic Energy Sciences, which is funding the effort, envisions awards both for single NSRCs and NSRCs working in partnerships or teams. The five NSRCs are:

- Center for Functional Nanomaterials at Brookhaven National Laboratory, Upton, New York
- Center for Integrated Nanotechnologies, jointly managed by Sandia National Laboratories and Los Alamos Laboratory, with locations in Albuquerque and Los Alamos, New Mexico
- Center for Nanophase Materials Sciences at Oak Ridge National Laboratory, Oak Ridge, Tennessee
- Center for Nanoscale Materials at Argonne National Laboratory, Lemont, Illinois
- Molecular Foundry at Lawrence Berkeley National Laboratory, Berkeley, California

See the funding opportunity announcement.

9. **DOE Funding Opportunity Announcement - “Open Call”**

   **Deadline: Open until replaced by next fiscal year’s call, Sept. 30, 2021**

The DOE Funding Opportunity Announcement (FOA), informally known as the “Open Solicitation” or “Open Call,” is issued annually at the beginning of each Fiscal Year (FY). It provides a vehicle for the Office of Science to solicit applications for research support in areas not covered by more specific, topical FOAs that are issued by the office over the course of the Fiscal Year. DOE anticipates awarding approximately $250 million for new, renewal, and supplemental grants, cooperative agreements, and inter-agency agreements under this FOA in Fiscal Year 2021, subject to the availability of FY 2021 appropriated funds.

Proposed research must fall within the programmatic priorities of DOE’s Office of Science and its major program offices, including Advanced Scientific Computing Research, Basic Energy Sciences, Biological and Environmental Research, Fusion Energy Sciences, High Energy Physics, Nuclear Physics, Isotope R&D and Production, and Accelerator R&D and Production.

Funding will be competitively awarded on the basis of peer review. The FOA remains open throughout the Fiscal Year.

The FOA, titled “FY 2021 Continuation of Solicitation for the Office of Science Financial Assistance Program,” can be found on the Office of Science funding opportunities page: https://science.osti.gov/Funding-Opportunities

10. **DOE to Provide $14.6 Million for New Atmospheric Studies**
Deadline: Pending Congressional Appropriations
The U.S. Department of Energy (DOE) announced a plan to provide $14.6 million for new studies of atmospheric processes aimed at improving the accuracy of today’s Earth system models. Studies are expected to rely on data gathered by the Atmospheric Radiation Measurement (ARM) user facility, a DOE Office of Science user facility and the world’s leading facility for ground- and air-based observation of atmospheric processes. Research will focus on interactions between clouds and aerosols (tiny particles that contribute to cloud formation), atmospheric processes in the Arctic, and studies of the warm boundary layer, or the layer of atmosphere closest to ground-level, among other topics. The Department anticipates that $14.6 million will be available for this program in Fiscal Year 2021, pending congressional appropriations. Funding is to be awarded competitively, on the basis of peer review, and is expected to be in the form of three-year grants with total award amounts ranging from $200,000 to $850,000, beginning in the current fiscal year.

More information: https://www.energy.gov/science/articles/doe-provide-146-million-new-atmospheric-studies

11. COVID-19 Research at the Spallation Neutron Source and High Flux Isotope Reactor
Deadline: Ongoing – Resource available for research until further notice.
With the continuing spread of the COVID-19 pandemic, the Department of Energy Basic Energy Sciences neutron sources will provide remote rapid access to support research into the COVID-19 virus and the search for effective diagnostics and therapies. Researchers who would like to use neutron scattering resources for COVID-19 research may submit a rapid access proposal here.

12. COVID-19 Research Questions
Deadline: Ongoing – Open until further notice.
The Department of Energy (DOE) is taking steps to address COVID-19 and is soliciting ideas about how the Department and the National Laboratories might contribute resources for science and technology efforts and collaborations. The Department is encouraging the scientific community and others to consider research questions that underpin COVID-19 response and is requesting input on strategic, priority research directions that may be undertaken using DOE user facilities, computational resources, and enabling infrastructure. More information is available here.

Deadline: Rolling - Pending applications reviewed 1st of each month.
The purpose of the Solar Energy Innovators Program is to enable selected applicants to conduct practical research on innovative solutions to the challenges faced by electric utilities, energy service providers, and electric public utility commissions as the levels of solar energy, as well as other distributed energy resources (DERs), increase on the electrical grid.

Selected applicants will participate for up to two years at a Host Institution on one or more topics related to the integration of solar energy. The applicant must identify a Host Institution and potential mentor at a utility, energy service provider, or public utilities commission (PUC) currently conducting research in an area related to the integration of solar energy onto the electricity grid. Host Institutions may seek potential Innovators that are eligible to apply to the program, but it is the potential Innovator, not the Host Institution or mentor, who submits the application and supporting materials to this site.

For more information, and to apply, click here.

14. Events Sponsorship Program: Grants up to $4,000 Available to ORAU Consortium Member Universities
Deadline: Ongoing
Applications for events occurring between October 1 and March 31 must be received by September 1. Applications for events occurring between April 1 and September 30 must be received by March 1.
Event or conference sponsorship is often beneficial to our Council of Sponsoring Institution Members, whether as a means of fostering collaboration among Council members, gaining new and important information for a proposal or business plan, and more. To help make these event opportunities possible, ORAU’s University Partnerships Office offers an Events Sponsorship Program to member institutions. Each member university is limited to one award per fiscal year (October through September). Up to $4,000 may be requested to support an event that involves participants from more than one ORAU member institution, including students. Examples of such events include visits to an ORAU consortium member by a renowned speaker, conferences or workshops with a focused theme, or a technology transfer/business plan competition. For more information, please go here.

15. Funding Opportunity: USMA Releases BAA on Research Topics Related to Army Technologies
Deadline: Continuously open through March 31, 2022
The U.S. Military Academy (USMA) released a broad agency announcement (BAA) seeking research proposals that can enable new and significant improvements to Army capabilities and technologies. White papers are expected to focus on basic knowledge and understanding of research topics rather than specific devices or components. The BAA includes topics of interest to the USMA departments, directorate, and research centers and institutes. White papers are encouraged to address the following research topics identified by USMA as they relate to Army technologies and operational capabilities: Socio-Cultural; Information Technology; Ballistics, Weapons, and Protections; Energy and Sustainability; Materials, Measurements, and Facilities; Unmanned Systems and Space; Human Support Systems; and Artificial Intelligence, Machine Learning, and Quantum Technologies. For more information, please go here.

16. **Energy Department Announces Notice of Intent to Issue Funding to Enhance Manufacturing Competitiveness through Innovation**

**Deadline: TBD**

The U.S. Department of Energy’s (DOE) Office of Energy Efficiency and Renewable Energy (EERE) announced its intent to issue, on behalf of the Advanced Manufacturing Office (AMO), a funding opportunity to stimulate technology innovation, improve the energy productivity of American manufacturing, and enable the manufacturing of cutting-edge products in the United States. The potential Funding Opportunity Announcement (FOA), entitled “FY20 Advanced Manufacturing Multi-topic FOA,” is intended to fund high-impact, applied research and development projects that integrate specified research opportunities across AMO. For more information, please go here.

17. **Dear Colleague Letter: Career-Life Balance (CLB) Supplemental Funding Requests**

**Requests considered anytime.**

The NSF recognizes that primary dependent care responsibilities and other family considerations pose unique challenges to the STEM workforce. The purpose of this DCL is to announce NSF’s continued interest in CLB supplemental funding requests. The supplemental request may include funding for up to six months of salary support or stipend for a maximum of $30,000 in direct costs of salary compensation or stipend, but the duration of the salary or stipend support may not exceed the duration of the family leave. Fringe benefits and associated indirect costs, but not tuition, may be included in addition to the salary costs, and therefore, the total supplemental funding request may exceed $30,000.


18. **ADL Ventures and National Renewable Energy Lab Competition**

**Deadline: Ongoing**

ADL Ventures is working with the National Renewable Energy Lab (NREL) as a Power Connector for the American-Made Solar Prize, a $3 million prize competition for researchers, innovators and entrepreneurs working on solar technologies. Winners of the competition can receive up to $500K in non-dilutive funding in addition to in-kind support from the National Labs. To date, 60 winners from 23 different states have been selected over 3 rounds for a total of $9M in funding. In addition to the publicity and resources associated with selection by DOE / NREL, the winners benefit from a much more streamlined funding process versus traditional collaborative awards and grants, allowing them to hit the ground running quickly, with minimal restrictions. More information about the price can be found on our ProblemSpace platform or from the NREL Solar Prize information webinar on August 19th. For more information, please go here.