Funding Opportunities as of August 24, 2022

Opportunities Listed by Deadlines

1. **2022 Vehicle Technologies Office Program Wide Funding - $95M**
   Required Concept Paper Due: 8/25/2022, 5 PM ET
   Applications Due: 11/10/2022, 5 PM ET
   This funding opportunity announcement (FOA) seeks research projects to address priorities in the following areas: the cost-effective deployment of EV charging for those without easy home charging; innovative solutions to improve mobility options for underserved communities; community engagement to accelerate clean transportation options in underserved communities; batteries and electrification; materials technologies; energy-efficient commercial off-road vehicle technologies; medium/heavy duty vehicle corridor charging; and advanced engine and fuel technologies to improve fuel economy and reduce GHG emissions. EERE anticipates making approximately 40 to 82 awards under this FOA. EERE may issue one, multiple, or no awards. Individual awards may vary between $300,000 and $7,500,000.
   
   Download FOA Here
   Download Teaming Partners List

2. **Drawdown Georgia Climate Solutions & Equity Grant**
   Required Letters of Introduction Due: 8/31/2022

   Dear Colleagues,

   The Drawdown Georgia Climate Solutions & Equity Grant is an exciting new grant opportunity that aims to support efforts that advance climate solutions and prioritize equity in Georgia. A group of five Georgia-based foundations have come together to support this inaugural effort. It will fund at least four, two-year grants that are up to $100,000 per year for work to be conducted in 2023-2024. The grant is directly inspired by Drawdown Georgia and will focus on 10 climate solutions: Alternative Transportation, Composting, Coastal Wetlands Protection, Conservation Agriculture, Energy Efficiency Improvements, Food Waste Reduction, Large-Scale Solar, Plant-Forward Diet, Rooftop Solar, and Tree Planting.

   This is a first-of-a-kind initiative in Georgia. Such a great opportunity to catalyze the research community around the equitable adoption of 10 climate solutions that are known to have high potential in our state.

   Good luck!

   Marilyn Brown
3. **$26M for Solar and Wind Grid Services and Reliability Demonstration**

   **Required Concept Paper Due:** 9/1/2022, 5 PM ET  
   **Applications Due:** 11/10/2022, 5 PM ET

   The U.S. Department of Energy (DOE) Solar Energy Technologies Office (SETO) and the Wind Energy Technologies Office (WETO) announced the Solar and Wind Grid Services and Reliability Demonstration funding opportunity, which will award $26 million in funding for projects that demonstrate the reliable operation of a power system that has at up to 100% of its power contribution coming from solar, wind, and battery storage resources. Demonstrating that a grid fully powered by inverter-based resources is as reliable or more reliable at providing these services is a key barrier to the clean energy transition.

   Projects in this funding opportunity will support the development of controls and methods for inverter-based resources like solar and wind to provide the same grid services as traditional generation. These technologies will be validated through long-duration demonstrations at existing large-scale wind and solar generation facilities connected to bulk power system to show their capability of providing grid services at scale. Other projects will develop technologies to ensure system reliability and conduct large-scale studies of transmission protection systems to determine how they respond when sourced primarily by inverter-based resources.

   DOE expects to make between 6 and 9 awards under this funding opportunity, each ranging from $2.25 million to $5.6 million. To facilitate the formation of teams, SETO and WETO are providing a Teaming Partner List where interested parties who would like to apply may express interest to potential partners. Utilities, laboratories, equipment manufacturers, software vendors, engineering firms, and universities (including community colleges) are encouraged to apply.

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4. **$29M in Funding Available for PV R&D Addressing Materials, Environmental Impacts, and Perovskites**

   **Required Letter of Intent:** 9/3/2022 at 5 PM ET

   The U.S. Department of Energy (DOE) Solar Energy Technologies Office (SETO) announced the Fiscal Year 2022 Photovoltaics Research and Development funding opportunity, which will award $29 million in funding for projects that reduce costs and supply chain vulnerabilities, further develop durable and recyclable solar technologies, and advance perovskite photovoltaic (PV) technologies toward commercialization.

   Projects in this funding opportunity will tackle the hardware costs and environmental impacts of PV materials usage through research into alternative metallization and contacting materials and processes, extending module life, and efficient recovery of component materials at end-of-life with an overarching goal of lowering the levelized cost of electricity. Additionally, projects will improve coordination amongst domestic researchers to increase the understanding of perovskite module performance and develop processes to achieve stability and larger device areas.

   Minority serving institutions, minority business enterprises, minority owned businesses, woman owned businesses, veteran owned businesses, tribal colleges and universities, community colleges or entities located in an underserved community are encouraged to apply as the prime applicant or participate on an application as a proposed partner to the prime applicant.

   DOE expects to make between 7 and 12 awards under this funding opportunity, each ranging from $1 million to $15 million. To facilitate the formation of teams, SETO is providing a Teaming Partner List where interested parties who would like to apply to the FOA may express interest to potential partners.

   **Download FOA**
   **Download the Teaming Partners List**

5. **Cybersecurity Tools and Tech to Protect Energy Infrastructure**

   **Required Concept Paper:** 9/12/2022, 8 PM ET  
   **Full Applications Due:** 12/5/2022, 8 PM ET

   The Department of Energy’s National Energy Technology Laboratory (NETL), on behalf of the Office of Cybersecurity, Energy Security, and Emergency Response (CESER) Risk Management Tools and Technologies
(RMT) program, is seeking applications to advance cybersecurity tools and technologies specifically designed to reduce cyber risks to energy delivery infrastructure. This effort will lead to next generation tools and technologies not available today that will become widely adopted throughout the energy sector to reduce a cyber incident disruption to energy delivery. The energy sector includes electricity, oil, and natural gas delivery systems. Proposed solutions need to support and ensure a more secure, resilient, and reliable energy delivery system through targeted improvements to one or more of the following energy sector processes:
- Electricity generation, transmission, or distribution (including renewables, energy management systems, and electric vehicles, etc.)
- Oil and natural gas production, refining, storage, or distribution

FedConnect Link

6. **DOE Announces $27M in New Funding to Advance Solar Manufacturing and Innovation**
   Required Letter of Intent: 9/16/2022 at 5 PM ET
   The U.S. Department of Energy (DOE) Solar Energy Technologies Office (SETO) announced the Fiscal Year 2022 Solar Manufacturing Incubator Funding Opportunity, which will award $27 million for projects to accelerate commercialization of innovative product ideas that can increase U.S. domestic manufacturing across the solar industry supply chain and expand private investment in America’s solar manufacturing sector. A particular focus of this announcement is on technologies related to cadmium telluride absorbers and supply chain.

   This funding program seeks to invest in innovative research, development, and demonstration projects that enable continued solar cost reductions, while developing next-generation solar technologies and boosting American solar manufacturing. These projects will support the scaling of affordable and equitable solar and facilitate secure, reliable integration of solar electricity into the nation’s energy grid to ultimately benefit the U.S. economy. Learn more about past Incubator funding program awardees.

   SETO’s mission is to accelerate the development and deployment of solar technology to support an equitable transition to a decarbonized electricity system by 2035 and decarbonized energy sector by 2050. Achieving this goal will help meet the threat of climate change and ensure that all Americans benefit from the transition to a clean energy economy.

   SETO expects to make between 6 to 17 awards under the Fiscal Year 2022 Solar Manufacturing Incubator Funding Opportunity Announcement, each ranging between $500,000 and $6 million. SETO seeks diverse entrepreneurs, small businesses, and larger for-profit entities.

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7. **2022 Solar Manufacturing Incubator - $29M**
   Required Letter of Intent: 9/16/2022, 5 PM ET
   Application Due: 10/3/2022, 5 PM ET
   This funding opportunity announcement (FOA) is being issued by the U.S. Department of Energy’s (DOE) Office of Energy Efficiency and Renewable Energy (EERE) Solar Energy Technologies Office (SETO). This funding program seeks to invest in innovative research and development (R&D) as well as research, development, and demonstration (RD&D) projects that enable continued cost reductions, while developing next-generation solar technologies and boosting American solar manufacturing, especially in cadmium telluride (CdTe) photovoltaics. These projects will support the scaling of affordable solar generation and facilitate secure, reliable integration of solar electricity into the nation’s energy grid to ultimately benefit the U.S. economy.

   The research and development (R&D) activities to be funded under this FOA will support the government-wide approach to the climate crisis by driving the innovation that can lead to the deployment of clean energy technologies, which are critical for climate protection. Specifically, this FOA will develop and demonstrate new technologies enabling fast deployment of large amounts of solar generation into the grid.

   EERE anticipates making approximately 7 to 12 awards under this FOA. EERE may issue one, multiple, or no awards. Individual awards may vary between $1,000,000 and $15,000,000.

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8. **Hydrogen Shot Funding, and a University Research Consortium on Grid Resilience**
The Office of Energy Efficiency and Renewable Energy (EERE) has issued a Funding Opportunity Announcement (FOA) entitled “Funding Opportunity in Support of the Hydrogen Shot and a University Research Consortium on Grid Resilience” that will address two unique areas of interest: one with topic areas focused on supporting the DOE Hydrogen Shot on behalf of the Hydrogen and Fuel Cell Technologies Office and a second EERE-wide topic area focused on grid resilience through a university research consortium.

This FOA includes the following five topics under two Areas of Interest, as follows:

Area of Interest 1: Hydrogen and Fuel Cell Technologies in Support of Hydrogen Shot
- Topic 1) HydroGEN: Solar Fuels from Photoelectrochemical and Solar Thermochemical Water Splitting
- Topic 2) Development and Validation of Sensor Technology for Monitoring and Measuring Hydrogen Losses
- Topic 3) Materials-based H2 Storage Demonstrations
- Topic 4) M2FCT: High Performing, Durable, and Low-PGM Catalysts/Membrane Electrode Assemblies (MEAs) for Medium- and Heavy-duty Applications

Area of Interest 2: Improving Electricity Grid Resilience
- Topic 5) University Research Consortium on Grid Resilience

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9. **DOE Funding Opportunity Announcement - "Open Call"**
   **Deadline:** Open until replaced by next fiscal year's call, 9/30/2022
   The U.S. Department of Energy (DOE) announced up to $400 million in funding for a range of research opportunities to support DOE's clean energy, economic, and national security goals. The funding will advance the priorities of DOE's Office of Science and its major programs, 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.

   The DOE Funding Opportunity Announcement (FOA), informally known as the “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. The FOA, titled “FY 2022 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](https://science.osti.gov/Funding-Opportunities)

10. **EPA Program - Environmental Justice Thriving Communities Technical Assistance Centers**
    **Application Due:** 10/04/2022, 11:59:59 PM ET
    The EPA Office of Environmental Justice (OEJ), in partnership with DOE, has released a solicitation for the Environmental Justice Thriving Communities Technical Assistance Centers Program (EJ TCTAC). The program will support the development of several regional centers to provide training, technical assistance, and other forms of support to program participants defined in the request for applications in underserved communities, rural areas, or with the greatest capacity constraints to assist them in securing relevant grants to advance equity in the climate space and ensure meaningful involvement from affected communities. This solicitation was designed with universities in mind, with explicit encouragement for minority-serving institutions (MSIs) and university business schools and business programs to apply. With potential funding from DOE to constitute total program funding of $50 million, EPA anticipates making five to ten incrementally funded awards of approximately $6 million each with three-year project periods.

    **EJ TCTAC Program Info**

11. **$6M for Carbon Ore Processing**
    **Application Due:** 10/06/2022, 11:59:59 PM ET
    The U.S. Department of Energy’s (DOE) Office of Fossil Energy and Carbon Management (FECM) has announced up to $6 million available for research and development (R&D) projects that will repurpose domestic coal resources for products that can be employed in clean energy technologies such as batteries and advanced manufacturing. Expanding innovative uses for coal and coal wastes has the potential to create local job opportunities for power plant communities as our country transitions to a net-zero greenhouse gas economy.
Potential projects selected under this funding opportunity announcement (FOA) will support FECM’s Carbon Ore Processing Program, which focuses on converting coal and coal wastes into products such as graphite and carbon metal composites and alloys. Coal's unique structure and composition also make it well suited as a raw material for producing various high-value carbon products like carbon nano-materials, activated carbons, and graphite, which may be used for computer memory devices, LED lighting, solar photovoltaic cells, batteries, capacitors, sorbents, catalysts, membranes, and medical imaging. Carbon ore-derived products can possess unique electrical and mechanical properties through processing, making these materials well suited to electrochemical, electromechanical, sorbent, catalyst, separation, and mechanical applications.

FOA at FedConnect

12. $6M for Carbon Ore Processing
   Concept Paper Due: 10/10/2022, 2 PM MT
   Full Applications Due: 1/10/2023, 2 PM MT
   The University of Utah, in support of the Department of Energy’s (DOE), Energy Efficiency and Renewable Energy (EERE) Geothermal Technologies Office (GTO) Frontier Observatory for Research in Geothermal Energy (FORGE) is seeking applications for advancing Enhanced Geothermal Systems (EGS) technologies. This solicitation covers testing and evaluation of new and innovative EGS tools, techniques, and supporting science in the following EGS lifecycle categories: reservoir characterization, reservoir creation, and reservoir sustainability.

   University of Utah anticipates making up to 17 awards under this solicitation covering a range of activities. The solicitation process will be competitive. Multi-year awards will be phased and include go/no go decision points on an annual basis. All awards will have a maximum period of performance of 3 years.

FORGE Program Info

13. Community Geothermal Heating and Cooling Design and Deployment
   Application Deadline: 10/11/2022, 5 PM ET
   The objective of this FOA is to support the formation of U.S. community coalitions that will develop, design, and install community geothermal heating and cooling systems that supply at least 25% of the overall community cooling and/or heating demand in communities where current fuel use to cool and/or heat homes and/or businesses results in increased greenhouse gas emissions. Further, a major goal of this FOA is to reduce the disproportionate shares of energy costs and associated environmental contaminants to underserved populations in a diverse set of communities by the deployment of these systems. Target applicants are anticipated to be U.S. community coalitions. Coalitions can be from urban, suburban, rural, remote, island, or islanded communities where geothermal technology can reduce dependence on fossil fuels such as natural gas or heating oil. Educational institutions are also eligible to submit applications.

   Additional FOA objectives include:
   • Supporting U.S. communities by reducing energy costs brought on by fossil fuel dependence
   • Increasing U.S. community energy system resilience for secure and reliable heating and cooling
   • Reducing environmental pollutants
   • Supporting U.S. communities in developing a strategy to train and employ community members in system design and trades necessary to build, operate, and maintain community geothermal systems

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14. $165M Geothermal Energy from Oil and Gas Demonstrated Engineering (GEODE)
   Application Deadline: 10/28/2022, 5 PM ET
   The U.S. Department of Energy (DOE) today announced up to $165 million to expand U.S. geothermal energy deployment. The Geothermal Energy from Oil and Gas Demonstrated Engineering (GEODE) initiative will provide $10 million to form a consortium of experts to develop a roadmap for addressing technology and knowledge gaps in geothermal energy, based on best practices used within the oil and gas industry. DOE will then use that roadmap to fund up to an additional $155 million in research to address those gaps.

   Although the U.S. geothermal resource is vast, only a small portion of it has been developed due to unique challenges associated with subsurface environments, along with process issues of geothermal projects, such as long permitting timelines. Accessing the expertise, technologies, and experience of the larger domestic oil and gas
industry can help overcome barriers and encourage private investment.

An award of up to $10 million will be used to select the entity to run the GEODE effort and create a roadmap for subsequent years’ research and outreach initiatives. Any awards beyond the first year are dependent on future Congressional appropriations. Therefore, the U.S. Department of Energy (DOE) is seeking an organization to function as a consortium administrator that can:
• Establish a clear structure and methodology for initiating and executing a research agenda, as defined by the consortium members and DOE
• Manage RD&D efforts in support of consortium priorities
• Attract and secure key industry partners as members, including the geothermal industry as well as oil and gas operators, service companies, original equipment manufacturers (OEMs), and potential electric or thermal market consumers
• Provide strong organizational leadership across technical disciplines and establish a robust model to leverage RD&D expertise and non-DOE funding (if feasible) to enhance commercialization opportunities of technologies and methodologies
• Serve as a primary point of contact for the consortium, with full accountability to DOE

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15. 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.

16. 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.

17. Solar Energy Innovators Program Opportunity
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.

18. 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.

19. **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.