



Funding Opportunities

June 21, 2022

Department of Energy

Scale-up of Integrated Biorefineries | **Concept Paper Due: July 8, 2022**

Summary: The U.S. Department of Energy (DOE) has announced \$59 million to accelerate the production of biofuels and bioproducts to reduce emissions in hard-to-decarbonize sectors and create good-paying jobs in rural America. DOE is focused on applied research, development, and deployment to improve the performance and reduce the cost of biofuel production technologies and scale-up production systems in partnership with industry. By reducing costs and technical risks, these efforts can help pave the way for the biofuels industry to deploy commercial-scale integrated biorefineries. The breakthroughs from this funding will support President Biden's and DOE's goals of advancing the use of bioenergy, achieving cost-competitive biofuels, and reaching a net-zero carbon economy by 2050.

Under this funding opportunity, BETO is interested in the following Topic Areas:

Topic Area 1: Pre-Pilot Scale-Up of Integrated Biorefineries

Topic Area 2: Pilot Scale-Up of Integrated Biorefineries

Topic Area 3: Demonstration Scale-Up of Integrated Biorefineries

Topic Area 4: Gen-1 Corn Ethanol Emission Reduction

Estimated Number of Awards: EERE anticipates making approximately 4 to 20 awards under this FOA.

Funding Amount: EERE expects to make a total of approximately \$59,000,000 of federal funding available for new awards under this FOA, subject to the availability of appropriated funds. Individual awards may vary between \$500,000 and \$100,000,000.

Additional Information: [DE-FOA-0002638](https://www.de.gov/foia/0002638)

National Science Foundation

Research Experiences for Undergraduates | Due: September 6, 2022

Summary: The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. This solicitation features two mechanisms for support of student research: (1) REU Sites are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department or may offer interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. (2) REU Supplements may be included as a component of proposals for new or renewal NSF grants or cooperative agreements or may be requested for ongoing NSF-funded research projects.

Estimated Number of Awards: 1,750 to 1,850

Funding Amount: \$84,140,000 in FY 2023 -- This estimate includes both Sites and Supplements, pending availability of funds. The typical REU Site hosts 8-10 students per year. The typical funding amount is \$80,000-\$130,000 per year, although NSF does not dictate a firm upper (or lower) limit for the amount, which depends on the number of students hosted and the number of weeks.

Additional Information: [NSF 22-601](#)

Department of Energy President Biden Invokes Defense Production Act to Accelerate Domestic Manufacturing of Clean Energy

President Biden issued presidential determinations providing the U.S. Department of Energy (DOE) with the authority to utilize the Defense Production Act (DPA) to accelerate domestic production of five key energy technologies: (1) solar; (2) transformers and electric grid components; (3) heat pumps; (4) insulation; and (5) electrolyzers, fuel cells, and platinum group metals. The DPA determinations are part of the Biden-Harris Administration's plan to lower energy costs for families, strengthen national security, and achieve lasting American energy independence that reduces demand for fossil fuels and bolsters our clean energy economy. Technologies to be funded are further detailed [here](#).

