

RWFI E-NOTE MONTHLY

REGIONAL WORKFORCE INITIATIVE • OCTOBER 2022

Welcome Message

Greetings NETL RWFI stakeholders,

This month's funding opportunity in focus is the *Bipartisan Infrastructure Law: Advancing Equity through Workforce Partnerships*. The Office of Energy Efficiency and Renewable Energy is issuing, on behalf of the Solar Energy Technologies Office, this Funding Opportunity Announcement.

As always, feel free to reach out to us at NETL.RWFI@netl.doe.gov if you have any suggestions for information to present in future E-notes.

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Sincerely,
The NETL Regional Workforce Initiative Team

Workforce Funding Announcements

FUNDING SPOTLIGHT



Bipartisan Infrastructure Law (BIL): Advancing Equity through Workforce Partnerships

U.S. Department of Energy, Deadline, Dec. 6, 2022

The Office of Energy Efficiency and Renewable Energy is issuing, on behalf of the Solar Energy Technologies Office, this FOA. Awards made under this FOA will be funded, in whole or in part, with funds appropriated by the Infrastructure Investment and Jobs Act, also more commonly known as the BIL. Under Section 41007(c)(1), the BIL provides funding to carry out research, development, demonstration, and commercialization activities relating to solar energy technologies, which includes conducting workforce development activities. The activities to be funded under this FOA support the broader government-wide approach to addressing the climate crisis and maximize the benefits of the clean energy transition as the nation works to curb the climate crisis, empower workers, and advance environmental justice.

Broadening Participation in Engineering (BPE)

National Science Foundation, Deadline, Nov. 16, 2022

Through the BPE program, the National Science Foundation (NSF) seeks to strengthen the future U.S. engineering workforce by enabling and encouraging the participation of all citizens in the engineering enterprise. The BPE program seeks to support not only research in the science of broadening participation and equity in engineering, but also collaborative endeavors which foster the professional development of a diverse and well-prepared engineering workforce as well as innovative, if not revolutionary, approaches to building capacity through inclusivity and equity within the engineering academic experience.

Louis Stokes Alliances for Minority Participation (LSAMP)

National Science Foundation, Deadline, Nov. 18, 2022

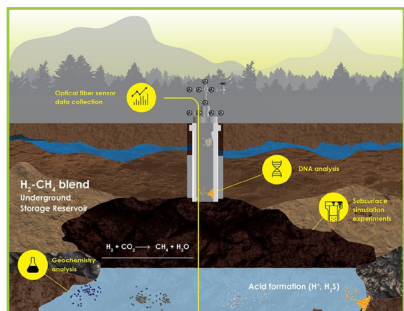
The LSAMP program is an alliance-based program. The program's theory is based on the Tinto model for student retention referenced in the 2005 LSAMP program evaluation. The overall goal of the program is to assist universities and colleges in diversifying the nation's STEM workforce by increasing the number of STEM baccalaureate and graduate degrees awarded to populations historically underrepresented in these disciplines: African Americans, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, and Native Pacific Islanders. The LSAMP program's efforts to increase diversity in STEM are aligned with the goals of the Federal Government's five-year strategic plan for STEM education, *Charting a Course for Success: America's Strategy for STEM Education*. The LSAMP program takes a comprehensive approach to student development and retention. Particular emphasis is placed on transforming undergraduate STEM education through innovative, evidence-based recruitment and retention strategies, and relevant educational experiences in support of racial and ethnic groups historically underrepresented in STEM disciplines.

Hispanic-Serving Institutions (HSI) Program Network Resource Centers and Hubs

National Science Foundation, Deadline, Dec. 15, 2022

The National Science Foundation (NSF) established the Improving Undergraduate STEM Education: HSI program in 2017, as directed by Congress. The goals of the HSI Program are to enhance the quality of undergraduate STEM education and to increase the recruitment, retention, and graduation rates of students pursuing associate's or baccalaureate degrees in STEM at HSIs. Intended outcomes of the HSI Program include broadening participation of students who are historically underrepresented in STEM, and expanding students' pathways to continued STEM education and integration into the STEM workforce.

NETL News



NETL Conducts Surveillance and Monitoring Technology Research for Underground Hydrogen Storage as part of Subsurface Hydrogen Assessment, Storage and Technology Acceleration (SHASTA) Collaboration

U.S. Department of Energy (DOE) researchers across the nation are accelerating efforts to solve challenging production, transportation and storage issues to put hydrogen (H₂) to work as a low-carbon fuel option for a range of critical energy applications. NETL is a key part of that overall effort with work to advance surveillance and monitoring technologies for underground H₂ storage facilities that ensure maximum safety.



NETL Drone Program Aims to Enhance America's Energy Infrastructure

With use of aerial drones increasing, NETL has been a major player in this area of technological development and is working on a new program with its partners to enhance the performance of America's energy infrastructure and improve environmental integrity.



NETL Welcomes New Principal Deputy Director

George Guthrie, Ph.D., has been named principal deputy director of NETL. Guthrie joins NETL from Los Alamos National Laboratory, where he served as deputy director for the applied energy programs, leading a diverse portfolio of applied R&D in applied energy and helping to establish and lead a place-based initiative in energy transition for the intermountain west. Guthrie is a scientist with more than 30 years of

experience in geosciences and applied-energy applications.



NETL Work to Detect Abandoned Oil and Gas Wells Nets National Geographic Magazine Recognition

NETL researchers' detective work to locate abandoned and undocumented oil and gas wells using drone flights, electromagnetic field detectors, light detecting and ranging technology and even operation of a user-friendly tip line were detailed in a recent article published in National Geographic Magazine, one of the most widely read magazines of all time.



NETL Experts to Discuss Use of Hydrogen-Fueled Turbines to Drive Clean Energy Economy

NETL experts will discuss research that supports expanding the use of hydrogen-fueled gas turbines to produce clean electricity while meeting environmental standards for low emissions of nitrogen oxides, pollutants that contribute to the formation of smog and acid rain.



NETL-Funded Project Among Finalists in 2022 Institution of Chemical Engineers (IChemE) Global Awards

The University of North Dakota's Energy & Environmental Research Center's Produced Water Management Through Geologic Homogenization, Conditioning and Reuse project — funded by NETL and developed in partnership with the North Dakota Industrial Commission Oil and Gas Research Program and Nuverra Environmental Solutions — is a finalist in the Oil and Gas category of the 2022 IChemE Global Awards.

Reports and Resources



U.S. Offshore Wind Energy Workforce Assessment

National Renewable Energy Laboratory

This study is the first national-level evaluation of the U.S. offshore wind energy industry's workforce gaps and opportunities. The report examined what the blossoming industry might need to grow a domestic workforce as well as what educational opportunities are needed to train that workforce. The authors also offer specific actions that industry and other stakeholders could take to capitalize on this huge workforce opportunity.

ABOUT NETL



NETL, owned and operated by DOE, is one of the Department's 17 National Laboratories. NETL supports DOE's mission to advance the national, economic, and energy security of the United States.

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