

RWFI E-NOTE MONTHLY

REGIONAL WORKFORCE INITIATIVE • NOVEMBER 2017

Welcome Message

Greetings NETL RWFI stakeholders. In this November 2017 E-Note, you will find invitations for regional community colleges and economic development organizations and staff to participate in a campus visit and meet with relevant NETL staff to learn more about the research mission of NETL and how to work with the lab. You will also find information about upcoming funding announcements including the last call for **FY2018 Environmental Workforce Development and Job Training Grants** from the EPA, and an opportunity from the National Science Foundation (NSF) for the creation of **Industry-University Cooperative Research Centers** which also includes two-year institutes. Finally, in our workforce focus section, you will find information about **free workforce training in the Oil and Natural Gas Industry** that is open with a deadline of November 30.

– Sincerely, The NETL Regional Workforce Initiative Team

Workforce Funding Announcements

FY 2018 Environmental Workforce Development and Job Training (EWDJT) Grants

National Science Foundation; **Deadline: December 15, 2017**

This notice announces the availability of funds and solicits proposals from eligible entities, including nonprofit organizations, to deliver Environmental Workforce Development and Job Training programs that recruit, train, and place local, unemployed, under-employed residents, giving them the skills needed to secure full-time employment in the environmental field.

Industry-University (including two-year colleges) Cooperative Research Centers Program

National Science Foundation; **Deadline: December 20, 2017**

The Industry-University Cooperative Research Centers (IUCRC) program develops long-term partnerships among industry, academe, and government. The Centers are catalyzed by an investment from the NSF and are primarily supported by Industry Center members, with NSF taking a supporting role in the development and evolution of the Center. Each Center is established to conduct research that is of interest to both the industry members and the Center faculty. An IUCRC contributes to the nation's research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education.



FY17 Funding Opportunity Announcement for Navy and Marine Corps Science, Technology, Engineering & Mathematics Education, Outreach and Workforce Program

Office of Naval Research; **Deadline: December 29, 2017**

The Office of Naval Research seeks a broad range of proposals for augmenting existing or developing innovative solutions that directly maintain, or cultivate a diverse, world-class STEM workforce in order to maintain the U.S. Navy and Marine Corps' technological superiority. The goal of any proposed effort must provide solutions that will establish and maintain pathways for U.S. citizens who are interested in uniformed or civilian Department of Navy (or Navy and Marine Corps) STEM workforce opportunities.

Training-based Workforce Development for Advanced Cyberinfrastructure

National Science Foundation; **Deadline: February 14, 2018**

The overarching goals of this program are to (1) prepare, nurture, and grow the national scientific research workforce for creating, utilizing, and supporting advanced cyberinfrastructure (CI) that enables potentially transformative fundamental science and engineering research and contributes to the Nation's overall economic competitiveness and security; (2) ensure broad adoption of CI tools, methods, and resources by the fundamental science and engineering research community to enable new modes of discovery; and (3) integrate core literacy and discipline-appropriate advanced skills in advanced CI as well as computational and data science and engineering into the Nation's educational curriculum/instructional material fabric spanning undergraduate and graduate courses.

NETL Meetings and Events

Appalachian Community Colleges, NETL Morgantown Campus Visit

December 14, 10 AM-1 PM

The NETL RWFI team welcomes representatives from regional community and technical colleges to join in a workshop to discuss fundamental issues surrounding workforce in the energy and advanced manufacturing sectors. This workshop introduces participants to emerging technologies for which they must prepare to train their students who will be in the next wave of the region's technical and skilled workforce. Lab staff will offer high-level descriptions of the technologies, predictions for commercialization of technology elements, and predictions for the skill sets that an operator/installer/monitor/technician could need in future careers. The program offers the following:

- Tours of the NETL laboratories
- Key presentations about NETL's external programs and the FOA/solicitations process
- Information on how to engage NETL as a technology development partner
- Information on NETL's student internship and fellowship programs

Information and registration for participation can be found at <https://www.netl.doe.gov/events/rwfi-cc>

Appalachian Economic Development Organizations, NETL Morgantown Campus Visit

December 14, 10 AM-1 PM

The NETL Regional Workforce Initiative team welcomes representatives from regional economic development districts and organizations to discuss the potential and real role energy and advanced manufacturing research and development occurring at the National Energy Technology Lab has on the economic and workforce development of the Appalachian region. Participants will leave with knowledge of the energy and manufacturing research and partnership opportunities that NETL brings to the region, including how industry can work with NETL to develop and commercialize research conducted at the lab, which in turn can be useful information for your present and future industrial stakeholders. During your visit you will be able to meet not only with NETL partnerships staff, but also meet with researchers through a series of lab tours highlighting key NETL research priorities. Mandatory information and registration for participation can be found at <https://www.netl.doe.gov/events/rwfi-ed>

Workforce Conferences, Meetings, and Summits

Webinar-Lab Partners: How to Leverage DOE National Laboratories

December 5, 3-4 PM Eastern Time

U.S. Department of Energy, Better Buildings Solutions Center; Learn about the National Laboratories and how your organization can work with them to enhance your energy efficiency. Registration for this webinar can be found at <https://betterbuildings-solutioncenter.energy.gov/webinars/lab-partners-how-leverage-doe-national-laboratories>

National Association of Workforce Boards 2018 Annual Summit- Fueling Talent, Forging Change

March 24-27, 2017, Hilton, Washington, DC.

The Forum convenes leaders, advocates, and changemakers in business, government, labor, and education to 1) network and share insights; 2) address key issues affecting U.S. workforce development; and 3) consider the goals and policy framework affecting the future of human capital and economic growth.

News from NETL

Energy, Environment, and Economics: Teachers Gather for the 26th Annual Triple E Workshop

NETL welcomed teachers from throughout the southwestern Pennsylvania region to an exciting two-day training event. The teachers participated in hands-on, minds-on experiences of fun, low-cost activities that they could bring back to their classrooms. This event occurred November 16-17, 2017.

Project Makes Major Gains in Technology Deployment of Industrial Carbon Capture and Storage

The U.S. Department of Energy (DOE) has collaborated with industry in cost-sharing arrangements to advance the next generation of technologies that will capture carbon from industrial sources and either store or beneficially re-use them. Some of these technologies have advanced to a scale that can be readily replicated and deployed into industry.



ADM's agricultural processing and biofuels plant, Decatur, Ill.
Image courtesy of ADM

Regional National Manufacturing Initiative News

Knoxville-Oak Ridge Innovation Valley Announces Composites Coalition

The Institute for Advanced Composites Manufacturing Innovation (IACMI, Knoxville, TN, US), Composites Coalition is a statewide initiative that aims to capitalize on Tennessee's unique assets including Oak Ridge National Laboratory's (ORNL) Carbon Fiber Technology Facility, the U.S. Department of Energy's Manufacturing Demonstration Facility, the headquarters for the Institute for Advanced Composites Materials Innovation (IACMI); the University of Tennessee, Knoxville's leading composites research, and several recent composites-related economic development announcements across the state.

Workforce Focus

Jump Start Training Program for Natural Gas Utility and Pipeline Careers

Deadline: November 30, 2017

Washington Greene County Job Training Agency Inc - The Natural Gas Utility & Pipeline Field Skills Training Program is 4 weeks of blended classroom and hands-on training that improves employability by providing a basic understanding and awareness of natural gas, the natural gas utility and pipeline industry. This program was designed by the Gas Technology Institute (GTI) in collaboration with and delivered at training venues in southwestern Pennsylvania and southeastern Ohio. Follow this link for more information- <http://washingtongreene.org/from-black-to-blue/>

Strategic Linkages Guide for Recruiting, Hiring, and Retaining Women Engineers in the Energy Industry

Center for Energy Workforce Development; As energy companies strive for a more diverse workforce, what does the world of women engineers look like today? In 2015, women made up approximately 15.1% of the engineering workforce according to the Bureau of Labor Statistics. If we break this into energy-related occupations, 12.5% of electrical and electronics engineers are women, while 8.3% mechanical and 12.6% civil are women engineers. With women making up more than 50% of the workforce, these numbers demonstrate a large discrepancy.

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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