

RWFI E-NOTE MONTHLY

REGIONAL WORKFORCE INITIATIVE • OCTOBER 2017

Welcome Message

Greetings, NETL RWFI stakeholders. This October 2017 E-Note contains a wrap up of the inaugural Appalachian Region Community College Campus Visit, the NETL site tour that occurred on Friday, October 20th at the NETL Morgantown site. You will also find new funding opportunities in STEM and workforce with November and December closing dates out of the Department of Defense, Office of Naval Research; the National Science Foundation; the Environmental Protection Agency; and the Department of Agriculture. Finally, in National Manufacturing Initiative News, this month's E-Note has a concept paper project call from the Advanced Robotics Manufacturing Initiative.

– Sincerely, The NETL Regional Workforce Initiative Team

Workforce Funding Announcements

Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science – National Science Foundation – **Deadline: November 27, 2017**

– Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) is a comprehensive national initiative designed to enhance U.S. leadership in science, technology, engineering and mathematics (STEM) discoveries and innovations focused on NSF's commitment to diversity, inclusion, and broadening participation in these fields. The initiative is developing a National Network composed of NSF INCLUDES Design and Development Launch Pilots, NSF INCLUDES Alliances, NSF-funded broadening participation projects, other relevant NSF-funded projects, scholars engaged in broadening participation research, and other organizations that support the development of talent from all sectors of society to build the STEM workforce.

CyberCorps® Scholarship for Service- National Science Foundation – National Science Foundation – **Deadline: December 5, 2017**

– Cyberspace has transformed the daily lives of people. But the rush to embrace cyberspace has exposed its fragility and vulnerabilities: corporations, agencies, national infrastructure and individuals have been victims of cyber-attacks. In December 2011, the National Science and Technology Council, with the cooperation of NSF, advanced a broad, coordinated Federal strategic plan for cybersecurity research and education to “change the game,” examine the misuses of cyber technology, bolster education and training in cybersecurity, establish a science of cybersecurity, and transition promising cybersecurity research into practice. To achieve this strategic plan, the Nation requires an innovative and efficient cybersecurity education system that results in an unrivaled cybersecurity workforce and citizenry capable of advancing America's economic prosperity and national security in the 21st century.

FY 2018 Environmental Workforce Development and Job Training (EWDJT) Grants – Environmental Protection Agency-

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 with the skills needed to secure full-time employment in the environmental field.

NETL Meetings and Events

Community Colleges of the Appalachian Region, NETL Morgantown Site Visit Wrap Up – **October 20, 2017** – With staff from 6 community colleges in the Appalachian region and approximately 30 participants in total, the inaugural NETL Community Colleges of the Appalachian Region Meeting and Fall Tour

successfully provided participants an opportunity to network and connect with NETL administrative and research staff to learn about the NETL research and development mission. There were tours of research labs on topics ranging from solid oxides fuel and hybrid fuel battery research to geomaterials research, and presentations on how to work with NETL and respond to funding opportunities. NETL also shared internship opportunities for community colleges. The tours gave participants a solid background on the R&D investment potential for regional economic and workforce development, and research staff also highlighted the tremendous impact that the technical workforce, much of whom are trained by community colleges, has in the development and implementation of new technologies.



Appalachian Regional Commission 2017 Regional Summit Wrap Up – October 18, 2017 – The ARC Transforming Appalachia Regional Summit brought together hundreds of ARC grant recipients, thought leaders, and organizations to discuss the future of the Appalachian region. The summit featured plenary discussion on best practice examples and technical assistance workshops on maximizing Appalachia’s economic potential. NETL RWFI coordinator Kirk Gerdes participated in a panel on Expanding Appalachia’s Energy, which also included panelists from the Pennsylvania Department of Community and Economic Development and the SEDACOG Natural Gas cooperative. The panel discussed the current state of energy in the Appalachia region with respect to natural gas exploration, distribution and storage infrastructure, and the tremendous potential that the industry has for expansion in the region. The NETL presentation provided background on the NETL R&D mission and highlighted the potential impact that R&D investments have on economic and workforce development in energy and advanced manufacturing in the Appalachian region.



Workforce Conferences, Meetings, and Summits

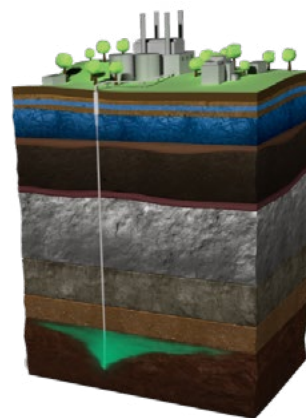
Center for Energy Workforce Development (CEWD) 2017 Annual Summit – November 8–10, Washington, D.C. – CEWD’s 2017 annual summit will bring together experts from energy companies and their education and community partners to showcase successful examples of how utilities are building a diverse, qualified pipeline of talent for the future. The summit will focus on the resources and tools that have been developed by CEWD and how companies are using them to attract, educate, hire and retain youth, women, military and transitioning adults for successful careers in the energy industry.

American College Testing (ACT) Workforce Summit – November 8-10, Hyatt Regency, Austin, Texas – ACT is committed to a workforce built to sustain and grow our economy by providing the tools and support needed to develop the workforce employers want. This year’s ACT Workforce Summit will Connect, Stack, and Build to strengthen the nation’s employment base as we convene with workforce professionals, economic developers, educators, industry associations, employers, and ACT Work Ready Community leaders

Carbon Fiber 2017 Composite World – November 28-30, Belmond Charleston Place, Charleston, South Carolina – Leaders and innovators from all aspects of the carbon fiber supply chain from around the globe will gather at Carbon Fiber 2017 to see the latest technology and process updates available in the industry. Engineers, executives, and plant managers will come together to look for strategic industry partners to maximize their budgets and increase their efficiency to help them reach their goals.

News from NETL

Department of Energy Announces Up to \$26 Million in Funding Opportunity for Transformational Carbon Capture Technologies – The U.S. Department of Energy (DOE) has announced up to \$26 million in federally funded financial assistance for cost-shared R&D projects under the Office of Fossil Energy’s (FE) Novel and Enabling Carbon Capture Transformational Technologies funding opportunity announcement (FOA). Selected projects will support DOE’s Carbon Capture Program, demonstrating the potential to provide step-change reductions in both cost and energy penalties associated with implementing carbon capture and enabling technologies for the coal and natural gas power generation sector. The projects will be managed by NETL.



NETL Addresses Smart Grids and Energy Research at WV Governor’s Energy Summit – Experts from NETL participated in the West Virginia Governor’s Energy Summit where they addressed energy R&D issues of importance to the Mountain State and presented energy research data at NETL’s official informational display unit at the event’s exhibit hall. Hosted by West Virginia Governor Jim Justice and sponsored by the West Virginia Department of Commerce and the Southern States Energy Board, the annual two-day event traditionally attracts more than 250 elected officials, senior government officials, energy and technology association executives, college and university administrators and researchers, industry leaders, and other decision makers from throughout the state to discuss innovative ways to strengthen West Virginia’s energy industry.

Regional National Manufacturing Initiative News

ARM Institute Project Call – Deadline November 22, 2017 –

To best protect and pursue our interests at home and abroad, the United States relies on a robust and innovative domestic manufacturing sector. The Advanced Robotics for Manufacturing Institute (ARM), a national public-private partnership among leaders in industry, academia, and nonprofits, was established to demonstrate and accelerate the early adoption of novel robotic solutions by funding technology and workforce training projects and by creating an ecosystem that advances robotics technology and education. Increased productivity gained by collaborative robotic automation will help create new jobs to build, manage, and maintain the robots, promote on-shoring by manufacturers, and replace dangerous jobs with safer jobs. ARM is soliciting proposals that respond to specific needs of industry and the Department of Defense (DoD). This project call contains topics for both Technology and Education and Workforce Development.

IACMI officially opens new innovation facility in Detroit – The Institute for Advanced Composites Manufacturing Innovation (IACMI, Knoxville, TN), and LIFT-Lightweight Innovations for Tomorrow (Detroit, MI), celebrated Manufacturing Day on October 6th by cutting the ribbon on and hosting an open house at the new IACMI/LIFT manufacturing innovation facility in Detroit. The center houses the LIFT headquarters and the IACMI Vehicles Scale-Up Facility, the research and development hub for the IACMI Vehicles Technology Area. This event capped a near \$50 million investment in world-class manufacturing equipment value and improvements to the Corktown facility, recognizing the future of innovative research in composites and metals to be done there.

Workforce Focus

RAND Corporation Releases Oil and Natural Gas Industry Workforce Report – “Developing a Skilled Workforce for the Oil and Natural Gas Industry: An Analysis of Employers and Colleges in Ohio, Pennsylvania, and West Virginia”- The report summarizes findings from surveys administered to oil and gas employers and education providers in Ohio, Pennsylvania and West Virginia.

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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