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***NETL* REPORTS:**

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Stephanie Beck-Roth and Jordan Musser, graduate students at West Virginia University, were selected as research associates at the National Energy Technology Laboratory (NETL) under the U.S. Department of Energy's Oak Ridge Institute for Science & Education (ORISE) program. Beck-Roth and Musser will be working under the postgraduate research program at NETL's Morgantown, W.Va., research site. NETL also has major research facilities in Pittsburgh, Pa., and Albany, Ore.

Natives of Petersburg, W.Va., Beck-Roth and Musser are both pursuing doctorates in mathematics. They are working with their mentor, NETL researcher Chris Guenther, on projects employing numerical models of multiphase flow systems. These models will aid in the understanding of systems containing complex mixtures of fluids and particulates. The work has the potential to facilitate the design process of coal-fired power plants and other chemical processes to reduce the environmental impact through increased efficiency and reduced waste.

The ORISE program offers appointments to undergraduate students, post-graduates, graduate students, post-doctoral researchers, and university professors to work part-time or full-time at NETL. The appointment provides research associates the opportunity to develop their professional, technical, leadership and communication skills, while promoting careers in energy, particularly in fossil fuel research and development.

NETL is one of the U.S. Department of Energy's national laboratories. NETL – "the ENERGY lab" – focuses on America's economic prosperity, which requires secure, reliable energy supplies at sustainable prices. Three overarching issues characterize the energy situation in the United States. They are energy affordability, supply security, and environmental quality. The Department of Energy's only government-owned, government-operated national lab, NETL is a research and technology center where these energy challenges converge and energy solutions emerge. NETL implements a broad spectrum of energy and environmental research and development programs through its own research staff and through funded research at other labs, universities, and industry that will return benefits for generations to come.