

Opportunity Title: Post-Doctoral Researcher – Environmental Engineering,
Environmental Science, Meteorological Science,

Opportunity Reference Code: NETL-2016-05-4-Pekney

Organization National Energy Technology Laboratory (NETL)

Reference Code NETL-2016-05-4-Pekney

Application Deadline 5/18/2017 12:00:00 AM Eastern Time Zone

Description TITLE: Post-Doctoral Researcher – Environmental Engineering,
Environmental Science, Meteorological Science, Air Quality Engineering

DEPARTMENT: U.S. Department of Energy

AGENCY: National Energy Technology Laboratory (NETL)

LEVEL: Graduate Student or Post-Doctoral Researcher

POSITION INFORMATION: Temporary, 12 months Full-Time

DUTY LOCATION: Pittsburgh, PA

WHO MAY BE CONSIDERED: : United States Citizens, LPRs, & Foreign
Nationals with appropriate approval which includes F-1 OPT with EAD
(STEM extension not valid), J-1 Exchange Visitor, and LPR with EAD

SUMMARY:

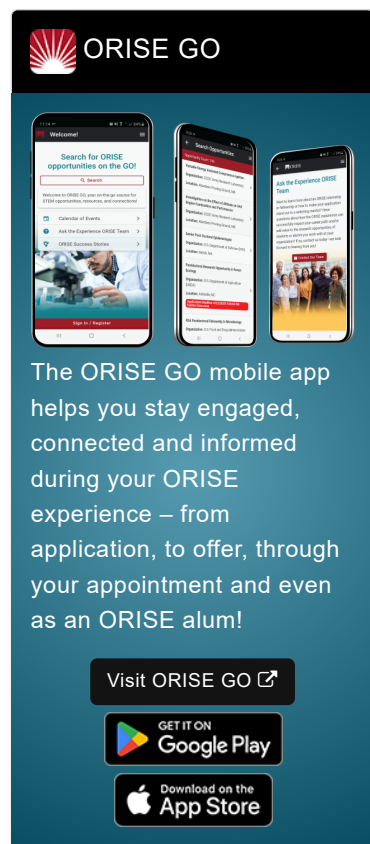
Through the Oak Ridge Institute for Science and Education (ORISE) this posting seeks a post-doctoral researcher who is interested in participating as part of the geologic and environmental sciences focus area research team at NETL. NETL is a multi-disciplinary, scientific and technical-oriented national laboratory. NETL's Research and Innovation Center (RIC) conducts research to evaluate environmental impacts and risk assessments associated with domestic energy resource development.

Following recommendations from the President's Climate Action Plan Strategy to Reduce Methane Emissions, NETL's Methane Emissions Quantification Program was designed to understand and quantify methane emissions from natural gas infrastructure. This program would build on recent NETL in-house research and development in quantifying methane emissions as well outside stakeholders (PHMSA, EPA, NOAA, EDF, GTI and others). Program would provide valuable input to identifying critical research needs (gaps) for CH₄ mitigation technologies and would also inform EPA's Greenhouse Gas Inventory. Specific areas of research include: (1) Data collection of component level emissions, which includes natural gas pipeline leaks, and (2) Reconciling "top-down" and "bottom-up" measurements, which includes legacy oil and gas well methane emissions measurements.

Applicants for this position must demonstrate knowledge of and have experience in areas including atmospheric chemistry and physics, environmental data statistical interpretation, environmental field research, atmospheric dispersion modeling, and analytical chemistry.

For more information about research ongoing in the Unconventional Resources Research Portfolio at NETL please visit

<https://edx.netl.doe.gov/ucr/>.



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KEY REQUIREMENTS:

- Applicants must be U.S. Citizens or approved Foreign Nationals
- Applicants must be a graduate student, have a graduate degree, or have a PhD from an accredited institution in a field appropriate for the applicant's area of expertise, with an ability to travel to the NETL Pittsburgh facility to participate in on-site research

HOW TO APPLY:

Applicants should apply through the Oak Ridge Institute for Science and Education (ORISE) program. The ORISE Program provides opportunities for undergraduate students, recent graduates, graduate students, postdoctoral researchers, and faculty researchers. NETL utilizes the ORISE program to support research and work within NETL's Office of Research & Development.

- Interested applicants should complete the online application at <https://orau.gov/netl>
- In the online application **list Natalie Pekney as your requested mentor.** This will associate your application with this job posting. You may contact Natalie Pekney at Natalie.Pekney@netl.doe.gov with questions about the research.
- If you have additional questions please contact Patricia Adkins-Coliane, Patricia.adkins-coliane@netl.doe.gov, who is the NETL ORISE program contact.

**Eligibility
Requirements**

- **Degree:** Doctoral Degree.
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([1](#) )
 - **Computer, Information, and Data Sciences** ([16](#) )
 - **Earth and Geosciences** ([21](#) )
 - **Engineering** ([27](#) )
 - **Environmental and Marine Sciences** ([14](#) )
 - **Life Health and Medical Sciences** ([45](#) )
 - **Mathematics and Statistics** ([10](#) )
 - **Other Non-Science & Engineering** ([13](#) )
 - **Physics** ([16](#) )
 - **Science & Engineering-related** ([1](#) )
 - **Social and Behavioral Sciences** ([28](#) )