

**Opportunity Title:** Environmental Engineering, Environmental Science  
Meteorological Science

**Opportunity Reference Code:** NETL-2017-06-1-Pekney

**Organization** National Energy Technology Laboratory (NETL)

**Reference Code** NETL-2017-06-1-Pekney

**Application Deadline** 6/30/2018 12:00:00 AM Eastern Time Zone

**Description** **TITLE:**  
Environmental Engineering, Environmental Science  
Meteorological Science

**DEPARTMENT:**  
U.S. Department of Energy/National Energy Technology  
Laboratory (NETL)

**NETL CONTACT:**  
Natalie Pekney

**DUTY LOCATION:**  
Pittsburgh, PA

**ACADEMIC LEVEL:**  
PhD, MS

**POSITION INFORMATION:**

1-year appointment; full time (40 hours per week) with the possibility of extension

**CLOSING DATE:**

6/30/2018

**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.




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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 as outside stakeholders (PHMSA, EPA, NOAA, EDF, GTI and others). Program would provide valuable input to identifying critical research needs (gaps) for CH<sub>4</sub> mitigation technologies and would also inform IPA's Greenhouse Gas Inventory. Specific areas of research include: i) data collection of component level emissions, which includes natural gas pipeline leaks, and ii) reconciling 'top-down' and 'bottom-up' measurements, which include 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, environment field research, atmospheric dispersion modeling, and analytical chemistry.




For more information about research ongoing in the Unconventional Resources Portfolio at NETL please visit <https://edx.netl.doe.gov/ucr>.

#### 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 to apply classroom knowledge in a real-world setting to learn about NETL Research and Innovation Center's (R&IC) core mission areas.









- Interested applicants should complete the online application at <http://www.ora.gov/netl/>.
- In the online application **list** Natalie Pekney **as your requested mentor**. This will associate your application with this job posting. Please send a CV to [Natalie.pekney@netl.doe.gov](mailto:Natalie.pekney@netl.doe.gov).
- If you have additional questions please contact Patricia Adkins-Coliane, [Patricia.adkins-coliane@netl.doe.gov](mailto:Patricia.adkins-coliane@netl.doe.gov), who is the NETL Graduate Education Program Manager.

#### Eligibility Requirements

- **Degree:** Master's Degree or Doctoral Degree.
- **Academic Level(s):** Postdoctoral or Post-Master's.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 )
  - **Communications and Graphics Design** (1 )
  - **Computer, Information, and Data Sciences** (16 )

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- **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 )