

**TITLE:** Faculty – Isotope Geochemistry

**DEPARTMENT:** Department of Energy

**AGENCY:** National Energy Technology Laboratory (NETL)

**LEVEL:** Faculty

**POSITION INFORMATION:** Temporary, part-time faculty appointment, up to 1 year starting period with opportunity for renewal.

**DUTY LOCATION:** Pittsburgh, Pennsylvania

**WHO MAY BE CONSIDERED:** United States Citizens, LPRs, and Foreign Nationals with appropriate authorization and approval

**SUMMARY:**

Through the Oak Ridge Institute for Science and Education (ORISE) this posting seeks motivated faculty researchers who currently hold a position at a degree-granting research institution, interested in performing research as part of the Analytical Biogeochemistry Team at NETL. NETL is a multi-disciplinary, scientific and technical-oriented national laboratory. NETL's Office of Research and Development (ORD) conducts research to evaluate environmental impacts and risk assessments associated with domestic energy resource development.

As carbon storage sites or gas shale plays are developed, monitoring strategies are needed in order to evaluate subsurface geochemical processes, including whether gases or fluids have leaked into shallower geologic reservoirs such as groundwater aquifers. One objective of the geological and environmental sciences focus area is to develop and demonstrate a protocol for the use of natural geochemical tracers to monitor subsurface systems. Specific tracers of interest include naturally-occurring isotopes and natural bulk geochemical signals.

Applicants for this position must have experience and capability to perform clean laboratory techniques for geologic solid and fluid sample preparation. Applicants must also have a background in operating a Neptune multi-collector ICP-MS for analysis of radiogenic and/or non-traditional stable isotopes.

Successful candidates will work in the geochemistry facilities associated with NETL and collaborator institutions. The candidate(s) should be able to perform work as part of an interdisciplinary team. Familiarity with statistics, groundwater geochemistry, and oil and gas operations would be beneficial.

**KEY REQUIREMENTS:**

- Applicants must be U.S. Citizens, LPRs, or approved Foreign Nationals suitable for this position, as determined by background investigation.

- Faculty applicants must have a current position at a degree-granting institution and hold a PhD, 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 <http://www.ornl.gov/netl/>
- In the online application **list Alexandra Hakala as your requested mentor**. This will associate your application with this job posting.
- If you have additional questions please contact Nancy Andres, [Nancy.Andres@NETL.DOE.GOV](mailto:Nancy.Andres@NETL.DOE.GOV), who is the NETL ORISE program contact.