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| **TITLE:** | Internal Metallic Coatings |
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| **DEPARTMENT:** | U.S. Department of Energy/National Energy Technology Laboratory (NETL) |
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| **NETL CONTACT:** | Joseph Tylczak, joseph.tylczak@netl.doe.gov |
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| **DUTY LOCATION:** | Albany, OR |

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| **ACADEMIC LEVEL:** | **x** | PhD | **x** | MS | **x** | BS |  | Undergrad |  | Faculty |

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| **POSITION**  **INFORMATION:** | 1-year appointment; full time (40 hours per week) with the possibility of extension |
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| **CLOSING DATE:** | 3/16/2019 |
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| **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 graduate student or post-doctoral researcher who is interested in being a part of the interdisciplinary team researching ways to minimize the susceptibility of cathodically protected pipeline to corrosion at National Energy Technology Laboratory (NETL). NETL is researching the development of internal metallic coatings as a means of corrosion protection for natural gas pipelines. NETL is a multi-disciplinary, scientific and technical-oriented national laboratory.

Specific areas of research include:

* Assisting in investigating hydrogen entry, transport, trapping, and loss in steels with and without coatings in aqueous electrolytes.
* Communicating research findings through publications and presentations.

**Qualifications**

* Applicant must be a U.S. Citizen or approved Foreign National.
* A PhD or graduate student in Materials Science and/or Engineering, Chemistry or Chemical Engineering:

**Desired Expertise**

Knowledge of metallurgy, corrosion, and electrochemistry

* Good hands-on laboratory skills.
* Experience using a scanning electron microscopy is desired.

**Key Requirements**

1. Course work in metallurgy, chemistry, and/ or materials science and engineering.

2. Strong verbal and written English communication skills.

**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’s core mission areas.

* Interested applicants should complete the online application at http://www.zintellect.com. For questions or issues, please email [NETLadmin@orau.org](mailto:NETLadmin@orau.org).
* In the online application, **list** **Joseph Tylczak as your requested mentor.** This will associate your application with this research opportunity. Please send a CV to [jospeh.tylczak@netl.doe.gov](mailto:jospeh.tylczak@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.

The participant(s) will be assigned to the program solely for the educational benefit it provides. The assigned project should not include activities that are reserved for federal employees nor should it require a participant to perform inherently governmental functions such as: supervise or mentor federal employees or federal contractor staff, hire or fire anyone; have budget, program management, or signature authority; carry an official job title; or function in any way as a representative of the federal government.