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| **TITLE:** | Software Application and Tool Analyst |
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| **DEPARTMENT:** | U.S. Department of Energy/National Energy Technology Laboratory (NETL) |
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| **NETL CONTACT:** | Jennifer Bauer: [Jennifer.bauer@netl.doe.gov](mailto:Jennifer.bauer@netl.doe.gov) |
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| **DUTY LOCATION:** | Albany, OR |

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

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| **POSITION**  **INFORMATION:** | Up to 1-year appointment; full or part time, with the possibility of extension |
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| **CLOSING DATE:** | March 31, 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 motivated students interested in researching as part of the Geo-Analysis & Monitoring Team within the Geologic and Environmental Systems directorate at the U.S. Department of Energy’s (DOE) National Energy Technology Laboratory (NETL). NETL is a multi-disciplinary, scientific and technical-oriented national laboratory. NETL’s Research & Innovation Center (RIC) conducts research to evaluate environmental impacts and risk assessments associated with domestic energy resource development.

Current research integrates geospatial, geostatistical, and geoscience expertise for performing; i) geospatial-based risk assessments related to CO2 storage, unconventional resources, offshore drilling activities, and other energy related activities, ii) developing tools for quantifying risks within various engineered-natural systems, iii) performing spatio-temporal assessments for various domestic energy infrastructure networks, iv) innovating methods and approaches to reduce or quantify geologic uncertainty, and v) developing novel tools, applications, and frameworks for improved decision support.

At present, the team is looking for support from applicants to assist the team in testing and advancement of custom, research models and tools.

**Responsibilities:**

* Plan, create and maintain test environment for various numbers of internally developed models and tools.
* Collaborate with other team members, consisting of developers, managers, researchers, and users to ensure comprehensive test coverage.
* Collect and catalog test metrics regarding performance, accuracy, and validity.
* Provide support for internal team personnel as well as external users.

**Demonstrated** **Skills:**

* Must be interested in testing in a research environment.
* Strong attention to detail.
* Strong interpersonal skills with experience building internal and external relationships.
* Excellent verbal and written communication skills
* Excellent time management skills.
* Experience with software development process.
* Skilled at using and configuring Windows, optionally Linux environments as well.
* Usability in UI testing experience.
* Knowledge of software installation.
* Knowledge in at least one or more of the following programming languages C/C++, Python, javascript.

**Minimum Experience:**

* Bachelors in Computer Science or similar engineering or science field.
* 1-2 years of experience of software testing preferred.

**Desired Experience:**

* Knowledge of oceanography, physics, environmental sciences, oil/gas.
* Knowledge of GIS or geologic sciences.
* Knowledge of scripting and automating software testing.
* Background in software testing automation.
* Experience with github, or similar version control system.

**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.orau.gov/netl/>. For questions or issues, please email both [Terry.Howard@orau.org](mailto:Terry.Howard@orau.org) and [Kerri.Fomby@orau.org](mailto:Kerri.Fomby@orau.org) .
* In the online application, **list Jennifer Bauer as your requested mentor.** This will associate your application with this research opportunity. Please send a CV to [Jennifer.bauer@netl.doe.gov](mailto:Jennifer.bauer@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.