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| **TITLE:** | Data Scientist / Computer Scientist / Materials Scientist |
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| **DEPARTMENT:** | U.S. Department of Energy/National Energy Technology Laboratory (NETL) |
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| **NETL CONTACT:** | Romanov, Vyacheslav; vyacheslav.romanov@netl.doe.gov |
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| **DUTY LOCATION:** | Pittsburgh, PA |

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| **ACADEMIC LEVEL:** | **x** | PhD | **x** | MS |  | 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:** | August 31, 2018 |
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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:**

An opportunity exists for post-doctoral researchers to develop computational models and data analysis tools to support application of data science to NETL Fossil Energy materials and power plant components research. Computational models and data analysis tools are pursued in this plan through research efforts on: (1) accurate capture of the relevant physical processes; (2) data-driven model development; and (3) validation of models using detailed in-house experiments and/or independently published reports. Research efforts focus primarily on mechanical properties of advanced alloys, while they are used under extreme environments and power plant cycling conditions. Among individual model development tasks, priority has been assigned to ensure that the models and tools are computationally efficient, widely accessible, and share data among discrete modules.

**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 and Kerri.Fomby@orau.org .
* In the online application, **list** **Vyacheslav Romanov as your requested mentor.** This will associate your application with this research opportunity. Please send a CV to Vyacheslav.Romanov@netl.doe.gov.
* If you have additional questions, please contact Patricia Adkins-Coliane, 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.