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| **TITLE:** | Computational Materials Scientist |
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| **DEPARTMENT:** | U.S. Department of Energy/National Energy Technology Laboratory (NETL) |
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| **NETL CONTACT:** | Youhai Wen, youhai.wen@netl.doe.gov |
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| **DUTY LOCATION:** | Albany, OR |

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| **ACADEMIC LEVEL:** | **x** | PhD |  | 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:** | 12/21/2018 |
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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 a post-doctoral researcher to develop computational models to support National Energy Technology Laboratory (NETL) Extreme Environment Materials research, a multi-year initiative involving multiple national laboratories across the U.S. Department of Energy enterprise. Research efforts focus primarily on developing physics-based advanced computational tools to provide an in-depth understanding of the thermo-chemo-mechanical behavior of structural alloys under extreme environments such high temperature, high pressure, and corrosive environments, to facilitate the design of novel high performance and cost-effective structural alloys in energy applications.

The successful candidate will possess demonstrable skills in computational methods for solving complex thermo-chemo-mechanical problems and significant experience in programming suitable for a high-performance computing environment (e.g. parallel processing and programming in MPI environment). Computational modeling experience using phase-field is preferred. The successful candidate will possess excellent communication skills and will possess demonstrable experience completing research in a collaborative/team environment.

**HOW TO APPLY:**

Applicants should apply through the Oak Ridge Institute for Science and Education (ORISE) program. The NETL Graduate Education Programs provide 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.zintellect.com/
* In the online application **list** Youhai Wen **as your requested mentor.** This will associate your application with this research opportunity. Please send a CV to youhai.wen@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.