**Postdoctoral Appointee - Atomistic Materials Modeling**

Job ID

671640

Location

Albuquerque, NM

Full/Part Time

Full-Time

Regular/Temporary

Temporary

**What Your Job Will Be Like**

We are seeking a Postdoctoral Appointee with an interest in Atomistic Materials Modeling. Are you passionate about using computational methods to development new materials and understand relationships between atomic structure and materials performance? Do you dream of developing simulation tools for atomistic modeling and using atomistic modeling to develop creative solutions to materials science challenges? If so, you will want to apply to this opportunity.

On any given day, you may be called on to:

* Work with a dynamic team of experimentalists to develop and validate models
* Collaborate with experts in other disciplines to couple atomistic simulation methods with mesoscale modeling methods and experimental information

**Qualifications We Require**

* You have, or are pursuing, a PhD in Materials Science, Engineering Physics or related Science & Engineering field and possess a bachelor’s in a science, technology, engineering or mathematics (STEM) discipline
* Experience in large scale atomistic simulations with engineering relevance
* Able to obtain and maintain a DOE security clearance

**Qualifications We Desire**

* Experience simulating a wide variety of materials systems with reactive force fields
* Experience with catalysis, corrosion, and other interfacially-dominated chemical processes.
* Experience building effective relationships and crafting creative solutions in multidisciplinary team environment
* Track record of collaboration with industry, academia, and other research laboratories
* Strong technical writing and verbal skills

**Position Information**

This postdoctoral position is a temporary position for up to one year, which may be renewed at Sandia's discretion up to five additional years. The PhD must have been conferred within five years prior to employment.

Individuals in postdoctoral positions may bid on regular Sandia positions as internal candidates, and in some cases may be converted to regular career positions during their term if warranted by ongoing operational needs, continuing availability of funds, and satisfactory job performance.

**About Our Team**

The Computational Materials and Data Science Department provides advanced computational analysis that enables materials-based insight and solutions. Capabilities include model development for nanoscalar and mesoscalar materials evolution, interfacial dynamics, defect initiation and propagation, multivariate analysis, and signal processing. We conduct experiments in micromechanics and volumetric flaw distribution to validate our computational work. Our multidisciplinary background and materials science expertise enable mechanistic and physical understanding related to aging and wear of materials such as metals, semiconductors, biomaterials, and polymers in support of DOE nuclear and non-nuclear missions.

**About Sandia**

Sandia National Laboratories is the nation’s premier science and engineering lab for national security and technology innovation, with teams of specialists focused on cutting-edge work in a broad array of areas. Some of the main reasons we love our jobs:

* Challenging work with amazing impact that contributes to security, peace, and freedom worldwide
* Extraordinary co-workers
* Some of the best tools, equipment, and research facilities in the world
* Career advancement and enrichment opportunities
* Flexible schedules, generous vacations, strong medical and other benefits, competitive 401k, learning opportunities, relocation assistance and amenities aimed at creating a solid work/life balance\*

*World-changing technologies. Life-changing careers.* Learn more about Sandia at: <http://www.sandia.gov>

\*These benefits vary by job classification.

**Security Clearance**

Sandia is required by DOE to conduct a pre-employment drug test and background review that includes checks of personal references, credit, law enforcement records, and employment/education verifications. Applicants for employment need to be able to obtain and maintain a DOE L-level security clearance, which requires U.S. citizenship. If you hold more than one citizenship (i.e., of the U.S. and another country), your ability to obtain a security clearance may be impacted.

Applicants offered employment with Sandia are subject to a federal background investigation to meet the requirements for access to classified information or matter if the duties of the position require a DOE security clearance. Substance abuse or illegal drug use, falsification of information, criminal activity, serious misconduct or other indicators of untrustworthiness can cause a clearance to be denied or terminated by the DOE, resulting in the inability to perform the duties assigned and subsequent termination of employment.

**EEO**

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, or veteran status and any other protected class under state or federal law.