

SANDIA NATIONAL LABORATORIES

Low Temperature Plasma Modeling Postdoctoral Position

Sandia National Laboratories is the nation's premier science and engineering lab for national security and technology innovation. We are a world-class team of scientists, engineers, technologists, postdocs, and visiting researchers all focused on cutting-edge technology, ranging from homeland defense, global security, biotechnology, and environmental preservation to energy and combustion research, computer security, and nuclear deterrents.

We are seeking exceptional recent PhD graduates for multiple postdoctoral positions to invent, develop, and apply models for the generation and transport of low temperature dynamic plasmas and ionized gases. Applications vary from fundamental research to fielded devices and project sponsors span a spectrum of both internal and external customers including US federal entities and industry.

Sandia has a number of computational capabilities, including finite element, massively parallel, electrostatic and electromagnetic PIC and DSMC tools. A successful candidate will participate in research that seeks to understand one or more of: gas/plasma chemistry, electrical discharge (vacuum to atmospheric pressures, low to high currents), hydrodynamics, dusty plasmas, plasma-surface interaction, laser-surface interaction, kinetic theory, or solid-state physics related to electron emission. Responsibilities include extensive model development and simulation-based scientific investigation as part of a multi-disciplinary team. Activities typically involve close collaboration with experimentalists in the organization, and there is the potential to include experimental work in this role.

In addition to background in one or more of the above technical areas, job requirements include a recent PhD in a relevant discipline and an enthusiastic attitude.

Candidates must be able to obtain and maintain a DOE security clearance, which requires U.S. citizenship.

For more information, see job id 663671 at www.sandia.gov/careers.

Additional inquiries can be directed to Matthew Hopkins (mmhopki@sandia.gov), or Andrew Fierro (asfierr@sandia.gov).

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