

SANDIA NATIONAL LABORATORIES

Computational Low Temperature Plasma Physics Postdoctoral Appointee

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 deterrence.

We are seeking exceptional recent PhD graduates for a postdoctoral position to invent, develop, and apply models for the generation and transport of low temperature plasmas and ionized gases. Applications vary from fundamental research to fielded devices and project sponsors can 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: plasma chemistry, plasma-surface interactions, sheath physics, arc discharges (from vacuum to high pressure), vacuum insulator flashover, CCP systems, and more. Responsibilities include extensive model development and simulation-based scientific investigation as part of a multi-disciplinary team. Activities typically involve close collaboration with experimentalists, and there is the potential to include experimental work in this role. A key part of this position is to support the Sandia Low Temperature Plasma Research Facility by engaging in collaborations with multiple external partners.

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 679897 at www.sandia.gov/careers (→ "View All Sandia Openings" on the right). Additional inquiries can be directed to Matthew Hopkins (mmhopki@sandia.gov) or Shane Sickafoose (smsicka@sandia.gov).

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