

Location: Albuquerque, NM

Full Time, Regular

What Your Job Will Be Like

The Applied Optical and Plasma Science is seeking a hardworking R&D Physicist to conduct research related to low temperature plasma (LTP) physics. Responsibilities include the invention, development, and application of novel methods to elucidate physical phenomena relating to LTPs.

Qualifications We Require

- PhD in physics, electrical engineering, nuclear engineering, mathematics, or closely related field plus a minimum of 3 years of relevant experience, or a master's in physics, electrical engineering, nuclear engineering, mathematics, or closely related field plus 5 or more years relevant experience, or the equivalent combination of relevant experience and education
- Proven track record of engagement with the scientific community through publication of results in peer-reviewed journals and presentations at scientific conferences and workshops (A publication and presentation list should be included as part of the CV)
- Ability to acquire and maintain a DOE Q-level security clearance

Qualifications We Desire

- The motivation and ability to seek technical problems independently
- Proven interpersonal skills
- Demonstrated ability to develop proposals for funding opportunities
- Experience or knowledge in one or more of the following subject areas:
 - gas/plasma chemistry
 - electrical discharge (vacuum to atmospheric pressures, low to high currents)
 - hydrodynamics
 - plasma-surface interactions
 - laser-surface interactions
 - ionizing radiation environments
- Experience with one or more of the following experimental skills:
 - design and operation of LTP experiments
 - optical diagnostics including passive and active techniques
 - ns, ps, or fs lasers
 - high-speed detectors and cameras
 - atomic and/or molecular spectroscopy
 - high current electron beams
 - pulsed discharge systems including ns pulsers
 - pulsed power best practices
- Design and/or operation of high vacuum or pressure experimental systems
- Experience in code validation efforts including but not limited to: working in tandem with M&S team members, conducting the experiments for validation, or other demonstrated validation processes
- Experience with kinetic plasma simulation for investigation of LTP properties or experience in collaborating with M&S team members

About Our Team

Our department is a diverse group of professionals in three areas: Low Temperature Plasma Physics, Laser and Optical Diagnostics, and Thermal Characterization of Materials. We work with groups in Sandia and other entities to develop the science that enables engineering solutions.

See [full job description](#)

Apply online at:
sandia.gov/careers
Job #: 675929

About Sandia:

Our culture values work-life balance; we offer programs such as flexible work schedules with alternate Fridays off, on-site fitness facilities, and three weeks of vacation. Sandia provides employees with a comprehensive benefits package that includes medical, dental, vision, and a 401(k) with company-match.

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, post docs, 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 defense.

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