

Location: Albuquerque, NM - Full Time, Regular

What Your Job Will Be Like

Are you passionate about your work and dream of utilizing state-of-the-art facilities to explore solutions? Do you want to join a dynamic team that helps tackle some of the most challenging issues facing our nation's security?

You could be the Computational Thermal Analyst we are seeking to join our diverse team in Sandia's Thermal Sciences and Engineering department. You can be part of a team of professionals that employ state of the art analytical and computational simulation techniques, in combination with experimentation and testing, in first-of-a-kind engineering system analysis and thermal science research with a direct impact on national security. Broadly, we seek individuals with educational backgrounds in thermal fluid sciences and computational mechanics, including high performance computation environments. The Thermal Science and Engineering team supports the development of defense, space, and energy systems across the national security mission space at Sandia National Laboratories.

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

- Use engineering analysis principles and computational methods to support the design, qualification, and fielding of high consequence engineered systems for national security missions.
- Engage with design engineering teams to understand system context and analysis needs.
- Engage with development teams to derive and implement novel models and capabilities in high performance computational algorithms.
- Engage with test engineers and technicians to evaluate physical simulation data needed to validate or supplement computational predictions.
- Work to meet critical schedules in an exciting, mission focused environment.
- Travel domestically and, less frequently, internationally as required, to support project efforts.

Are you ready for your next challenge? Join our team and achieve your dreams while making a difference.

Qualifications We Require

- Bachelor's and Master's degree in Mechanical or Chemical Engineering or related discipline that includes a focus in thermal/fluid sciences including conduction, convection, and radiation transport, plus four years' experience
- Formal training in finite element analysis methods and general familiarity with computational engineering analysis tools
- Ability to obtain and maintain a DOE Q Security Clearance

Qualifications We Desire

- Doctorate in Mechanical or Chemical Engineering or related discipline with a thermal and fluid systems emphasis.
- Experience in high-performance computing environments.
- Experience applying finite element analysis techniques to thermal/fluid sciences.
- Experience in code validation, design of experiments, solid mechanics, or aerodynamics.
- Ability to work to results oriented schedules in a highly collaborative and multi-disciplinary teaming environment.

About Our Team

The Thermal Sciences and Engineering Department conducts a broad range of technical activities focused on heat transfer, numerical analyses, and related thermal capabilities. Our work spans fundamental research and development to engineering analysis of system performance, safety, and control of thermal environments.

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity,

Apply online at:
sandia.gov/careers
Job #: 668591

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.

*World-changing technologies.
Life-changing careers.*

Learn more about Sandia:
www.sandia.gov