

Location: Albuquerque, NM
Full Time, Temporary

What Your Job Will Be Like

Are you passionate about research with metal thin film deposition? If so, you could be a Postdoctoral Appointee on our Thin Film Coatings Team. Read on to learn more! Our work provides the opportunity to develop creative solutions through inter-disciplinary research that couples materials science, process science and high vacuum technology. Through interactive collaboration with other inter-disciplinary research groups within Sandia, you will support a wide variety of research opportunities and mission related projects.

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

- Plan and perform experiments, install, repair, and maintain diagnostic tools, collect and analyze data with the goal of understanding how process parameters affect film stress, microstructure and performance
- Perform design necessary to support projects or experiments
- Publish professional journal articles and present work at local and national conferences
- Interact and collaborate with other inter-disciplinary research groups within Sandia National Laboratories to develop new research opportunities and projects

Qualifications We Require

- Have, or are pursuing, a PhD in materials science, materials engineering, chemical engineering, or a related field and possess a bachelor's in science, technology, engineering, or mathematics (STEM)
- Experience with vapor deposition processes (sputtering or evaporative deposition)
- Experience with thin film characterization
- History of publication of results in peer-reviewed journals and presentations at scientific and/or technical conferences (a list of publications should be included in the CV)
- Ability to obtain and maintain a DoE security clearance

Qualifications We Desire

- Experience with process research and development
- Experience with magnetron sputter deposition methods
- Experience with microstructural, mechanical property, and film stress characterization
- Experience with high vacuum pumping systems
- Experience or knowledge of machine learning approaches

About Our Team

The Coatings and Additive Manufacturing Department provides scientific and engineering expertise in the areas of thin films, laser machining and surface modification, precision engineering, and metal additive manufacturing for the Laboratories. Over 25 elements as well as numerous compounds and alloys can be deposited by sputter deposition and electron beam evaporation. Thin film properties can also be characterized. Precision engineering includes the design and fabrication of miniature and meso-scale devices, electrical discharge machining (EDM), laser machining, laser etching, as well as technical consulting. Metal additive manufacturing capabilities include powder bed, LENS, and wire technologies. Our staff supports a variety of programs and is highly engaged in providing collaborative, innovative materials science and systems-based engineering solution.

This Limited Term Employee (LTE) position is a temporary position for one year term, which may be renewed at Sandia's discretion up to a maximum of seven years.

Individuals in LTE 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.

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

Apply online at:
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Job #: 676533

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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Life-changing careers.*

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