



**POSITION:** Materials Scientist

**JOB ID:** 62410

**MANAGER:** Jay Keller

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 defense. To learn more, visit <http://ca.sandia.gov/casite/>.

### DEPARTMENT DESCRIPTION

Sandia/California's Hydrogen & Combustion Technologies department is part of the Combustion Research Facility (CRF), an internationally recognized Department of Energy Office of Science user facility that offers a stimulating multidisciplinary research environment with access to unique facilities and world-class researchers. The CRF is home to about 100 scientists, engineers, and technologists who conduct basic and applied research aimed at improving our nation's ability to efficiently and cleanly use and control combustion processes. The CRF addresses today's most critical energy and environmental issues and offers staff members opportunities for personal, professional, and technical growth.

### JOB DESCRIPTION

The Hydrogen & Combustion Technologies department is seeking five members of the technical staff to conduct original research in solid-state hydrogen storage materials. The successful candidates will collaborate with other staff scientists, both experimentalists and theorists, in the research-and-development activities conducted at Sandia under a multilaboratory collaborative Center for Excellence currently supported by the Department of Energy's Hydrogen, Fuel Cell, Infrastructure, and Technology program. Successful candidates will contribute to studies of the effects of dopant materials, catalysts, and impurities on hydride behavior and will help resolve the mechanistic details and kinetics of hydrogen adsorption and desorption reactions in complex metal hydrides.

### QUALIFICATIONS

A PhD degree in physics, chemistry, materials science, or a related field is required for this position, as is a demonstrated ability in applied research. Additional required qualifications for this position include (1) a proven ability to synthesize new materials and think creatively; (2) a demonstrated ability to work in a collaborative research environment; and (3) expert knowledge of x-ray diffraction, calorimetry, thermogravimetric analysis, hydrogen adsorption/desorption studies, and solid-state chemistry as it applies to the synthesis of complex functional materials. In addition, candidates must be knowledgeable regarding industry-standard gas-handling methods and the assembly of systems rated from high vacuum to high pressure (e.g., fixtures, fittings, pumping systems).

*Candidate must be able to obtain a U.S. Department of Energy security clearance for this position. To obtain a security clearance, U.S. citizenship is required.*

**Apply at:** <http://ca.sandia.gov/casite/employment/>. Click on Browse current job openings, and type the Job ID number **62410** into the Keywords box. Click on the Search button to access this job opening, and complete an online application.

### ABOUT SANDIA

Sandia provides employees with a comprehensive benefits package that includes medical, dental, vision, and a 401(k) with company-match. 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. In addition, Sandia/California enjoys close proximity to San Francisco, the Silicon Valley, first-tier universities, and diverse cultural and year-round recreational opportunities.

Sandia National Laboratories is an Equal Opportunity Employer M/F/D/V. If this position requires a security clearance granted by the U.S. Department of Energy (DOE), U.S. citizenship and employee eligibility for clearance processing will be required at the time of hire. If you hold dual citizenship and accept a job offer for a position that requires a DOE-granted security clearance, you may be asked by DOE to renounce your foreign citizenship and retain only your U.S. citizenship.