Research Scientist - Materials Science and Engineering

Location: Livermore, CA
Category: Science & Engineering
Organization: Physical and Life Sciences
Posting Requirement: External w/ US Citizenship
Job ID: 105067
Job Code: Science & Engineering MTS 2 (SES.2) / Science & Engineering MTS 3 (SES.3)
Date Posted: March 22 2019

Science and Technology on a Mission!

For more than 60 years, the Lawrence Livermore National Laboratory (LLNL) has applied science and technology to make the world a safer place.

We have an opening for a materials scientist to perform a full range of metallurgical analyses, interpret results, and author technical reports. You will support pit surveillance, manufacturing, and development activities. This position is in the Chemistry of Nuclear Materials group in the Materials Science Division.

This position will be filled at either the SES.2 or SES.3 level depending on your qualifications. Additional job responsibilities (outlined below) will be assigned if you are selected at the higher level.

**Essential Duties**
- Support the destructive analysis of weapon components, collection and analysis of materials characterization data, and issue technical reports on assessments.
- Serve as a design agency liaison for pit manufacturing activities.
- Gain expertise in NAP-24A quality requirements and Defense Programs Business Process System.
- Prepare moderately complex to complex written operating procedures, manage measurement and test equipment.
- Become a fissile material handler and perform work in gloveboxes and other contamination enclosures.
- Prepare written analyses, verbal briefings, and other products that capture and communicate results.
- Extensive travel to other National Nuclear Security Administration sites.
- Perform other duties as assigned.

**In Addition, at the SES.3 Level**
- Conduct advanced research in the area of plutonium materials science or chemistry.
Serve as a primary technical contact on pit surveillance and manufacturing related issues.

Qualifications
- BS in materials science or related field, or the equivalent combination of education and related experience.
- Broad understanding in metallurgy, ceramics, and/or materials characterization.
- Experience performing x-ray diffraction, optical and scanning electron microscopy, thermal analysis, and/or mechanical testing.
- Experience with Microsoft Office software, including Word, Excel, and PowerPoint.
- Experience operating computers to collect, analyze, and document scientific results.
- Ability to work independently, as well as a member of a team.
- Proficient verbal and written communication skills necessary to interact with a diverse set of scientists, engineers, and other technical and administrative staff within a collaborative research and development environment.

In Addition, at the SES.3 Level
- MS or PhD in Materials Science or related field with significant experience.
- Advanced knowledge of actinide materials and manufacturing processes.
- Significant experience performing materials characterization on actinide samples including contamination control.

Desired Qualifications
- Experience with casting, machining, or welding, and in material properties and characterization techniques as well as extensive knowledge of manufacturing and production processes.
- Broad experience with radioactive materials and contamination control, and working to stringent conduct of operations in high hazard nuclear facilities

Pre-Employment Drug Test: External applicant(s) selected for this position will be required to pass a post-offer, pre-employment drug test. This includes testing for use of marijuana as Federal Law applies to us as a Federal Contractor.

Security Clearance: This position requires a Department of Energy (DOE) Q-level clearance. Also, you must have the ability to obtain and maintain Sensitive Compartmented Information (SCI) access.

If you are selected, we will initiate a Federal background investigation to determine if you meet eligibility requirements for access to classified information or matter. In addition, all L or Q cleared
employees are subject to random drug testing. Q-level clearance requires U.S. citizenship. If you hold multiple citizenships (U.S. and another country), you may be required to renounce your non-U.S. citizenship before a DOE L or Q clearance will be processed/granted.

**Note:** This is a Career Indefinite position. Lab employees and external candidates may be considered for this position.

**About Us**

Lawrence Livermore National Laboratory (LLNL), located in the San Francisco Bay Area (East Bay), is a premier applied science laboratory that is part of the National Nuclear Security Administration (NNSA) within the Department of Energy (DOE). LLNL’s mission is strengthening national security by developing and applying cutting-edge science, technology, and engineering that respond with vision, quality, integrity, and technical excellence to scientific issues of national importance. The Laboratory has a current annual budget of about $2.1 billion, employing approximately 6,800 employees.

LLNL is an affirmative action/ equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, marital status, national origin, ancestry, sex, sexual orientation, gender identity, disability, medical condition, protected veteran status, age, citizenship, or any other characteristic protected by law.

**Dr. Stephen A. Stout**  
Deputy Associate Program Director for Nuclear Materials  
Lawrence Livermore National Laboratory  
P.O. Box 808, L-359  
Livermore, CA 94551

(925) 422-7202 (office)  
(925) 344-1821 (mobile)  
Stout18@llnl.gov