

Postdoctoral Position in Analytical Chemistry

Functional Job Title

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Search for IRC 117690 in the LANL job postings

What You Will Do

The Chemical Diagnostics and Engineering (C-CDE) group in the Chemistry Division is seeking outstanding candidates for a postdoctoral position in analytical chemistry. Successful candidates will be responsible for conducting independent research and engaging in a broad set of activities across several scientific disciplines. The research projects supporting this position are mostly related to material analysis and certification, with an emphasis on gas chromatography mass spectrometry techniques. The position will also comprise direct interface with colleagues, customers and sponsors, the preparation of publications, proposals and reports, as well as delivery of program/progress updates.

What You Need

Minimum Job Requirements:

- Excellent oral and written communication skills and demonstrated record of technical proficiency as indicated by a PhD and/or postdoctoral appointment, and represented by publications, patent disclosures, presentations, proposals, and reports.
- Expertise in Analytical Chemistry and/or Materials Science.
- Advanced knowledge and demonstrated experience using gas chromatography mass spectrometry techniques.
- Advanced knowledge and demonstrated experience operating and doing method development with three or more of the following analytical techniques: FTIR, XRF, XRD, XPS, ICP-MS/OES, UV-vis, spark-OES, particle sizing, elemental analysis, quantitative and qualitative assays.
- Experience in applying fundamental scientific and/or engineering concepts to complex, multidisciplinary problems.
- Ability to work effectively both in a team environment and independently to meet programmatic milestones and scientific goals.
- Ability to obtain a DOE Q clearance, which usually requires US citizenship.
- Submit a cover letter addressing how the candidate meets all the required skills when applying for the position. A current C.V. with the minimum following information/sections is also required: Educational background with degree dates, GPA with scale, and Name of advisor(s); Work experience; Competitive honors; Relevant extracurricular activities; Invited presentations; Grants; Patents; Peer-reviewed publications; Non-peer-reviewed publications; Talks and poster presentations; references.

Education/Experience: A Ph.D. in chemistry, chemical engineering, or a related field. The candidate must have completed all Ph.D. requirements by commencement of the appointment and be within five years of completion of the Ph.D. Candidates may also have previous experience including postdoctoral experience.

Desired Qualifications:

- Quality control chemist with expert level experience in evaluating samples for compliance to standards and specification requirements.
- Expert level experience with Laboratory Information Management Systems (LIMS).
- Expert level experience performing laboratory equipment or instrument specification, procurement, assembly, modification, maintenance, and repair.

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Note to Applicants: For full consideration, applicants must submit a resume and a comprehensive cover letter that addresses all of the minimum job requirements of the position along with a statement of scientific research interests and professional goals. References will not be contacted without permission from the applicant. For additional technical inquiries, please contact Dr. Dan Kelly (dnkelly@lanl.gov).

Location: This position will be physically located in Los Alamos, NM.

Position commitment: Regular appointment employees are required to serve a period of continuous service in their current position in order to be eligible to apply for posted jobs throughout the Laboratory. If an employee has not served the time required, they may only apply for Laboratory jobs with the documented approval of their Division Leader. The position commitment for this position is 1 year.

Where You Will Work

Where You Will Work

Located in northern New Mexico, Los Alamos National Laboratory (LANL) is a multidisciplinary research institution engaged in strategic science on behalf of national security. LANL enhances national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health, and global security concerns.

This position will be filled at a Postdoctoral Associate Level. The position resides in the Chemical Diagnostics and Engineering Group (C-CDE). The Chemical Diagnostics and Engineering Group is an applied technology organization focused on resolving national security-related issues in stockpile manufacturing and support, surveillance, applied and basic energy sciences, threat reduction, public health, the environment, and space exploration. The group's core approach involves the integrated development and application of technologies utilizing underlying scientific expertise in Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Electrochemistry, Materials Science, Microbiology, Explosives, Chemical Process Development and/or Chemical Engineering. The highly interdisciplinary nature of these activities requires scientists and engineers who can readily operate within, and transition between, the traditional academic disciplines.

Our generous benefits package includes:

- PPO or High Deductible medical insurance with the same large nationwide network
- Dental and vision insurance
- Free basic life and disability insurance
- Paid maternity and parental leave
- Award-winning 401(k) (6% matching plus 3.5% annually)
- Learning opportunities and tuition assistance
- Flexible schedules and time off (paid sick, vacation, and holidays)
- Onsite gyms and wellness programs
- Extensive relocation packages (outside a 50 mile radius)

Additional Details

Directive 206.2 - Employment with Triad requires a favorable decision by NNSA indicating employee is suitable under NNSA Supplemental [Directive 206.2](#). Please note that this requirement applies only to citizens of the United States. Foreign nationals are subject to a similar requirement under DOE Order 142.3A.

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Clearance: Q (Position will be cleared to this level). Applicants selected will be subject to a Federal background investigation and must meet eligibility requirements* for access to classified matter. This position requires a Q clearance which requires US Citizenship except in extremely rare circumstances. Dependent upon position, additional authorization to access nuclear weapons information may be required that may or may not be available to dual citizens depending upon the circumstances

*Eligibility requirements: To obtain a clearance, an individual must be at least 18 years of age; U.S. citizenship is required except in very limited circumstances. See [DOE Order 472.2](#) for additional information.

426.2: This position is subject to DOE Order 426.2, Personnel Selection, Training, and Qualification Requirements for DOE Nuclear Facilities, which establishes entry-level requirements to ensure candidates selected for specific positions can successfully perform the requirements of the job.

New-Employment Drug Test: The Laboratory requires successful applicants to complete a new-employment drug test and maintains a substance abuse policy that includes random drug testing.

Regular position: Term status Laboratory employees applying for regular-status positions are converted to regular status.

Internal Applicants: Regular appointment employees who have served the required period of continuous service in their current position are eligible to apply for posted jobs throughout the Laboratory. If an employee has not served the required period of continuous service, they may only apply for Laboratory jobs with the documented approval of their Division Leader. Please refer to Policy [Policy P701](#) for applicant eligibility requirements.

Equal Opportunity: Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. All employment practices are based on qualification and merit, without regard to race, color, national origin, ancestry, religion, age, sex, gender identity, sexual orientation or preference, marital status or spousal affiliation, physical or mental disability, medical conditions, pregnancy, status as a protected veteran, genetic information, or citizenship within the limits imposed by federal laws and regulations. The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request, for individuals to participate in the application and hiring process. To request such an accommodation, please send an email to applyhelp@lanl.gov or call 1-505-665-4444 option 1.