

## Job Description

**Job Title:** Scientist I/II  
**Job ID:** 113939  
**Location:** PNNL - Richland, WA

[Email to Friend](#)[Save Job](#)[Apply Now](#)[Return to Previous Page](#)

### Organization and Job ID

Job ID: 113939  
Directorate: National Security Directorate  
Division: Physical & Chemical Sciences Division  
Group: Applied Physics & Materials Characterization Sciences

### Job Description

This position will support senior scientists and engineers in a variety of research and development activities performed in the Applied Physics & Materials Characterization Sciences Group. The ability to plan, design, and conduct experiments employing acoustic and electromagnetic energy modalities and subsequently interpret and report the data from these experiments is required. Work is routinely conducted both in the field (on-site measurements) and in the laboratory (e.g., fume hoods, benchtops) where testing on materials and fluids occur. Must be able to master various laboratory instruments and be able to design system components for reconfiguring existing laboratory systems to accommodate changes in experimental processes. The position requires the ability to apply a strong disciplined approach in experimental design to effectively develop and implement functional design requirements and analysis of scientific data to provide scientific solutions to relating to advanced imaging and physical property characterization of materials and liquids. The ability to work independently and prepare high quality technical reports and presentations that communicate the objective, experimental procedures, results, and conclusion in a defensible manner is also required. Flexibility to work on multiple projects and the ability to work on multidisciplinary teams is also required.

Experience in both physics and chemistry is necessary as this position requires a fundamental understanding of the physical and chemical processes in various materials under interrogation using acoustic and electromagnetic techniques. This position will support applications of technology development for employing acoustic methods to process liquids and classify/characterize liquids in various process streams and under various conditions. The successful candidate should have experience in handling analytical equipment and instrumentation, and in generating procedural documentation such as standard operating procedures for newly developed technologies and methods. Experience in applying ultrasonic imaging techniques (e.g., phased array ultrasonic testing) and data analysis is also useful as this position will support work in assessing and developing advanced inspection methods of nuclear reactor components for the US Nuclear Regulatory Commission. Since this position will be directly supporting projects that are focused on NSD's mission to meet the technical needs of the DoD and DHS, familiarity with project protocols and requirements for DoD and DHS work is advantageous.

Pacific Northwest National Laboratory's mission in national security supports the U.S. government's efforts to protect our homeland, ensure a strong and fast military, and fight proliferation of weapons of mass destruction. Our broad range of scientific and engineering expertise enables us to deliver high-impact, science-based, practical solutions to our clients. Slightly more than one-half of PNNL's \$790-million annual business volume reflects work in national security programs for the Departments of Energy, Homeland Security, Defense and other federal agencies--and we're growing fast.

### Minimum Requirements

Level I: A minimum of a Bachelor's degree with 0-1 years experience or a Master's degree is required. Expected to contribute professionally, applying basic theories, principles, methods, tools and technologies to well-defined assignments of limited scope.

Level II: A Bachelor's degree with 2-3 years experience or a Master's degree with 0-2 years experience or a Ph.D. is required. Expected to contribute professionally, building a professional reputation for technical expertise. Fully applying and interpreting standard theories, principles, methods, tools and technologies.

Degree to be in physics or electrical engineering.

Strong computer, communication, and writing skills are required.

Ability to obtain and maintain a DOE Q Security clearance (to obtain a clearance requires U.S. Citizenship) required.

\*\*Must meet minimum requirements to receive further consideration.

NOTE: Placement level will be dependent upon management's assessment of the selected candidate's skills, experience, and ability to contribute.

**Equal Employment Opportunity**

Pacific Northwest National Laboratory (PNNL) is an Affirmative Action / Equal Opportunity Employer and supports diversity in the workplace. Applicants will be considered for employment without regard to race, color, religion, sex, national origin, age, disability, veteran status, marital status, or sexual orientation.

**Other Information**

In order to reduce cycle time, internal and external solicitations of interest will run concurrently; however, qualified PNNL staff will be given first consideration.

---

Email to Friend

Save Job

Apply Now

[Return to Previous Page](#)

---