



Job Posting for Radiation Safety Officer/Program Health Physicist-Spallation Neutron Source - NB50580929

Company

The Oak Ridge National Laboratory (ORNL) Nuclear and Radiation Protection Division (NRPD) is seeking a Radiation Safety Officer (RSO)/Program Health Physicist for the ORNL Spallation Neutron Source (SNS). The SNS is a highly complex advanced research accelerator facility that provides the most intense pulsed neutron beams in the world for scientific research and industrial development. The pulsed neutron beams support a large number of state-of-the-art experiment stations that provide unprecedented research opportunities for the neutron scattering community by delivering measurements of greater sensitivity, higher speed, higher resolution, and in more complex sample environments than have been possible at existing neutron facilities.

The SNS RSO provides guidance and recommendations to line management and research organizations concerning radiation safety and is a key interface between Neutron Sciences Directorate Operations and NRPD organizations. This position involves a significant amount of independent interaction with senior researchers, accelerator operations, and maintenance personnel in planning work activities to help ensure that the appropriate balance between accomplishing the research mission, occupational radiological protection, and regulatory compliance is reached.

Major Duties/Responsibilities

The position is matrixed to the Neutron Sciences Directorate and reports to the NRPD Radiological Protection Operations (RPO) Group Leader for Neutron Sciences Facilities. The successful candidate will initially function in a transition role supporting the current SNS RSO as the designated succession candidate. Assumption of full SNS RSO responsibilities is expected to occur in 2017. The position will also assume some additional Program Health Physicist responsibilities under Neutron Sciences RPO Group Leader direction and may also serve on the ORNL Emergency Operations Center support team as assigned. Future assignments may include participating in the design and radiological safety aspects of the project for the second SNS target station.

Routine SNS RSO responsibilities may include the following:

- Ensuring that SNS is in a radiologically safe configuration
- Approve, document, and confirm that SNS configuration controlled shielding is in an approved configuration and appropriately secured
- Manage the configuration control program for shielding, i.e., Radiation Safety (RS) Hold process
- Authorize placement, settings, installation, and removal of credited radiation monitors
- Establish radiation safety policy and management practices for SNS

- Carry out responsibilities assigned to the RSO in the Safety Analysis Document (SAD) and Accelerator Safety Envelope (ASE) – primarily concerned with shielding configuration and radiation doses
- Authorize beam operations above 100 kW after maintenance periods; certify that shielding, postings, and radiological safety personnel are ready for full-power beam on target
- Support application of ORNL radiation safety and ALARA policy and procedures to SNS, and review proposed changes or variations to established safe practices
- Act as radiological engineer during job planning; provide ALARA guidance during job planning
- Review and approve SNS procedures with radiological impact, including Personnel Protection System (PPS) certification procedures
- Serve as the Secretary for the SNS Radiation Safety Committee
- Serve as a member of the Instrument Systems Safety Committee (ISSC) and associated Instrument Readiness Reviews (IRRs); serve as primary author of the shielding, safety systems, and configuration control sections of IRR reports
- Availability to be on call 24/7 to evaluate hazards for unexpected events and to authorize actions

Qualifications Required

- Candidates with a demonstrated technical leadership working at a National Laboratory or large-scale research institution having a broad range of applied nuclear and radiological operations experience; including work with research accelerators, neutron scattering science research, or research reactors will have a competitive advantage
- A Bachelor's of Science degree (Master's or PhD preferred) in Physics, Nuclear Engineering, Radiation Protection or equivalent scientific discipline.
- A minimum of 5 years of professional level experience in radiological protection (an emphasis in accelerator safety programs is preferred)
- Certification by the American Academy of Health Physics is preferred (or on track toward acquiring CHP certification)
- Capable of obtaining and maintaining a minimum of a DOE L-clearance
- This position is a Workplace Substance Abuse program (WSAP) testing designed position which requires passing a pre-placement drug test and participation in an ongoing random drug testing program in which employees are subject to being randomly selected for testing. The occupant of this position will also be subject to an ongoing requirement to report to ORNL any drug-related arrest or conviction or receipt of a positive drug test result.

To apply for this position, please visit jobs.ornl.gov

Contact during the Spokane HPS Meeting: Michael W. Stafford, Director, Nuclear & Radiological Protection Division - staffordmw@ornl.gov

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