

Postdoctoral Research Associate in Accelerator Physics

**Neutron Scattering Sciences Division
Research Accelerator Division
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL08-125-RAD

Project Description:

Participate in SNS power ramp-up activities including control room beam studies, analysis of beam loss mechanisms, development of new techniques for measuring beam properties, beam modeling and identification of equipment limitations. Plans, develops and commissions hardware systems such as laser diagnostics or laser collimation systems to understand and mitigate beam loss.

- Participates in the control room beam study activities in support of the power ramp-up.
- Performs beam measurements, performs analysis of data including beam modeling to understand beam loss mechanisms and propose loss mitigation possibilities.
- Summarizes work in publications, conference proceedings and laboratory reports.
- Ensures individual compliance with environment, safety, health and quality program requirements including ISMS.
- Maintains a strong commitment to the implementation and perpetuation of values and ethics.

Reports to the SNS Accelerator Physics Group Leader. Will work closely with other members of the Physics Team within the Accelerator Physics Group. Will interface with physicists, post-docs, engineers, students, technicians, and operators in the various technical groups within the Accelerator Systems Division and the other SNS divisions. Maintains communication with the partner laboratories.

Qualifications:

A PhD in Accelerator Physics or related field is required. This is a post-doctoral level staff position. Experience performing beam studies, and with beam modeling is desirable. Ability to collaborate in a team setting with a group of physicists and engineers in the operation and power ramp-up of an accelerator required. Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment.

Technical Questions:

Contact Dr. John Galambos, E-mail: galambosjd@ornl.gov. Please reference the position title and number when corresponding about this position.

How to Apply:

Qualified applicants must apply online at https://www2.ornl.gov/ORNL_POST/. All applicants will need to register before they can begin the online application. For complete instructions, on how to apply, please see the instructions at <http://www.ornl.gov/orise/edu/ornl/ornl-pdpm/application.htm>. When applying for this position, please reference the position title and number. Note: Applicants will be evaluated on a continuing basis. Salaries and benefits will be competitive.

The postdoctoral position will be offered through the Oak Ridge Institute for Science and Education (ORISE) Oak Ridge National Laboratory Postdoctoral Research Associates program <http://www.ornl.gov/orise/edu/ornl/ornl-pd/ornlpdoc.htm>. These positions is open to all qualified candidates without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.