

Instrument Scientist Position at SNS

Summary:

The Neutron Sciences Directorate at Oak Ridge National Laboratory (ORNL) invites applications for an Instrument Scientist. With the world's highest flux reactor-based neutron source (the High Flux Isotope Reactor) and the world's most intense pulsed accelerator-based neutron source (the Spallation Neutron Source), ORNL has become the world's foremost center for neutron science. Research at these facilities will encompass the physical, chemical, materials, biological, and medical sciences and will provide opportunities for up to 2000 researchers each year from industry, research facilities, and universities all over the world. To learn more about Neutron Sciences at ORNL go to: <http://neutrons.ornl.gov>.

Responsibilities & Qualifications:

The successful candidate will be a team member to provide operational support for the new VULCAN diffractometer at the Spallation Neutron Source and to develop a vigorous scientific program associated with the instrument. To be commissioned in 2008, VULCAN is designed to tackle a broad range of problems in materials science and engineering, including stress mapping in structural components, in-situ multi-axial loading study of deformation behaviors, in-situ investigation of processing and synthesis, and structural evolution during phase transformation.

Major duties and responsibilities:

- Will work with VULCAN Lead Instrument Scientist and Scientific Associate to provide user support for VULCAN. This will include helping users to develop user proposals, conduct experiments, and analyze data.
- Will maintain the instrument and coordinate with support groups to make sure that the instrument is ready for each user experiment.
- Will work with other staff and research groups at ORNL to conduct world leading research using VULCAN and related instruments at ORNL.
- Will work with the VULCAN team to conceive, plan, and execute upgrades of the instrument. This will include both hardware and software.
- Will take part in development of new methods for making engineering diffraction measurements and interpretation of the data
- Will ensure compliance with environmental, safety, health, and quality program requirements including ISMS
- Will maintain a strong commitment to the implementation and perpetuation of laboratory values and ethics.

The successful candidate must have a Ph.D. plus postdoctoral experience in material science, physics, mechanical engineering, or related fields, involving neutron and/or x-ray diffraction, or equivalent combination of training and experience, is required. Strong written and oral communication skills and the desire to work in a team environment on technically and scientifically challenging problems are required. Experience with instrument, software and programming development, particularly at a neutron or x-ray synchrotron facility, is desirable. Software and programming skills for object oriented and specific diffraction problems are a plus.

ORNL offers competitive salaries and comprehensive benefits.

This position will remain open for a minimum of three weeks after which it will close when a qualified candidate is identified and/or hired.

Please submit your resume, references, and publication list in one file. We only accept Microsoft Word documents. Resumes from third party vendors will not be accepted; these resumes will be deleted and the candidates submitted will not be considered for employment.

If you have trouble applying for a position, please email Helpdesk@icims.com.

UT-Battelle is committed to achieving its strategic business objectives by attracting, retaining and developing a diverse workforce.

To apply, visit <http://jobs.ornl.gov>

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