

ORNL Publications

External Publication

Job Posting Title

Postdoctoral Research Associate - Applications of Polarized Neutron Scattering to Quantum Materials / NB50685151

Posted Date

09/17/2018

End Posting Date

10/15/2018

Purpose

The Neutron Scattering Division (NSD) in the Neutron Sciences Directorate at ORNL operates 30 instruments to study a diverse range of materials using elastic and inelastic neutron scattering, small angle neutron scattering, neutron reflectometry and neutron imaging techniques. Instruments are located at both HFIR and SNS. Scientific research areas include quantum materials, soft matter and polymers, catalysis and interfacial chemistry, materials and engineering, biological materials and systems and applications of computing, modeling and data analytics to analysis of neutron scattering data. This is an excellent opportunity to join an interdisciplinary team that performs experiments, high performance computing, and theory.

The Neutron Scattering Division has immediate openings for one or two postdoctoral associates to work on quantum materials using neutron scattering, especially polarized neutron diffraction. These positions represent an excellent opportunity to study quantum matter using neutron scattering in a stimulating multidisciplinary environment at Oak Ridge National Laboratory.

Major Duties/Responsibilities

- * Studying quantum matter in frustrated magnetic materials by neutron scattering and developing polarized neutron diffraction techniques under complex sample environments.
- * Publish scientific papers resulting from this research and present results at appropriate national and international meetings.
- * Develop scientific methods and innovative technologies that further the capabilities of the neutron scattering user program.
- * Ensure compliance with environment, safety, health and quality program requirements
- * You will be expected to commit to ORNL's Research Code of Conduct by holding yourself and others to the highest scientific, professional, and ethical standards in a manner that fosters mutual respect and enhances the reputation of the individual researcher, his/her colleagues, and the Oak Ridge National Laboratory in its mission to address the Department of Energy's and the nation's scientific and technical challenges.

Qualifications Required

Basic Qualifications:

- * Ph.D. in Physics, Chemistry, Materials Science.
- * Good interpersonal, communication, and presentation skills.
- * Demonstrated ability to communicate research results in peer-reviewed publications.
- * All degree requirements must be complete before the appointment can begin
- * Your application should be within five years of receiving your doctorate degree.

Preferred Qualifications:

- * Good knowledge of diffraction methods
- * Experience with neutron scattering
- * Computer coding skills for data analysis and visualization
- * Self-motivated
- * Excellent communication and presentation skills
- * Demonstrated ability to interact effectively with colleagues at all levels and in multi-disciplinary teams

Other Requirements:

Please provide a list of publications when applying for this position. A minimum of 2 letters of reference are required and can be uploaded to your profile.

The date of your application must be within 5 years of the most recent degree, and all degree requirements must be complete before starting the appointment. Certain exceptions may be considered. This position is a temporary, full-time assignment for 24 months. 3rd year extensions may be approved based upon performance, funding, and urgency for further research.

*Employment is contingent upon the results of a pre-employment drug screen which must be administered and cleared before employment can begin.

This position will remain open for a minimum of 5 days after which it will close when a qualified candidate is identified and/or hired.

We accept Word(.doc, .docx), Excel(.xls, .xlsx), PowerPoint(.ppt, .pptx), Adobe(.pdf), Rich Text Format(.rtf), HTML(.htm, .html) and text files(.txt) up to 2MB in size. 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 ORNLRecruiting@ornl.gov.

Notice: If the position requires a Security Clearance, reviews and tests for the absence of any illegal drug as defined in 10 CFR 707.4 will be conducted by the employer and a background investigation by the Federal government may be required to obtain an access authorization prior to employment and subsequent reinvestigations may be required.

If the position is covered by the Counterintelligence Evaluation Program regulations at 10 CFR 709, a counterintelligence evaluation may include a counterintelligence-scope polygraph examination.

ORNL is an equal opportunity employer. All qualified applicants, including individuals with disabilities and protected veterans, are encouraged to apply. UT-Battelle is an E-Verify Employer.