

ORNL Publications

External Publication

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Shull Fellowship / NB50605012

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Purpose

The Neutron Sciences Directorate (NScD) at Oak Ridge National Laboratory (ORNL) operates the High Flux Isotope Reactor (HFIR), the United States' highest flux reactor based neutron source, and the Spallation Neutron Source (SNS), the world's most intense pulsed accelerator based neutron source. Together these facilities operate 30 instruments for neutron scattering research, each year carrying out in excess of 1,000 experiments in the physical, chemical, materials, biological and medical sciences. HFIR also provides unique facilities for isotope production and neutron irradiation. To learn more about Neutron Sciences at ORNL go to: <http://neutrons.ornl.gov>.

The Neutron Sciences Directorate at Oak Ridge National Laboratory (ORNL) <http://neutrons.ornl.gov> invites applications for the Clifford G. Shull Fellowship Program. This postdoctoral Fellowship Program, named for the 1994 Nobel Prize winner in Physics, is aimed at attracting outstanding early career researchers to continue on a path of scientific excellence while substantially contributing to ORNL and U.S Department of Energy missions and goals in neutron scattering science. The Shull Fellowship is open to all fields of science and engineering that utilize neutron techniques and/or advance neutron science including the physical, chemical, materials, biological, nuclear, and medical sciences.

Major Duties/Responsibilities

Shull Fellows carry out and develop research programs in a variety of disciplines (e.g. hard and soft condensed matter physics, biology, engineering, and materials chemistry) to enhance the knowledge of the structure and/or dynamical behavior of materials using neutron scattering as a primary tool; educate and promote the use of neutron scattering to new user communities; publish research results in scientific journals; and assist Spallation Neutron Source and High Flux Isotope Reactor scientists in the development of new instrumentation and optimized neutron sources to meet research program goals. This position is a fully-funded 24 month assignment, with an additional twelve months extension possible based on performance, with research support funding for travel, and materials and supplies. Shull Fellows are expected to contribute to the long term scientific mission of the Neutron Sciences Directorate in one or more of the areas of Quantum Materials, Materials Synthesis and Performance, Soft Molecular Matter, Biosciences, Advanced Neutron Sources, and Neutron Instrumentation and Optics.

Qualifications Required

A PhD. in condensed matter physics, chemistry, materials science and engineering, biology, or related field is required. Previous experience in neutron or X-ray scattering is highly desired; however, outstanding candidates possessing related expertise are also encouraged to apply. Previous postdoctoral experience is highly desired. Strong written and oral communication skills as evidenced by a significant publication record and the desire to work in a team environment on scientifically challenging problems are essential.

Additional Requirements:

The candidate must have completed their Ph.D. before his or her agreed upon start date. Qualified candidates must have received their Ph.D. no more than five years before the application submission date.. Current ORNL postdoctoral appointees and staff members cannot be considered.

In addition to a CV, to complete the application, those interested must submit three letters of recommendation and a short (2-3 page) statement of research specifically describing the role that neutron scattering will play in achieving their research goals. Letters of recommendation and research statements can be sent via email to shullfellows@ornl.gov or uploaded to your online application.

For questions regarding the Shull Fellowship, you may contact Steve Cherry at cherrysj@ornl.gov.

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.