

Opportunity Title: ORNL Molecular/Structural Biology Post-Master's Research Associate

Opportunity Reference Code: ORNL18-96-NSD

Organization Oak Ridge National Laboratory (ORNL)

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Description The Neutron Scattering Division at Oak Ridge National Laboratory (ORNL) invites applications for a Post-Master's Research Associate in molecular biology or structural biology. The Research Associate will join the laboratory that supports the biological neutron scattering user program at the SNS/HFIR complex. The successful candidate will join a multi-disciplinary research team investigating the structure and function of protein complexes and assemblies relevant to the energy and environment and biomedical sciences. These projects involve multi-task efforts in molecular biology, protein crystallography, small-angle scattering and computational modeling. The successful candidate will have access to leading small-angle neutron scattering and neutron diffraction facilities, biofermentation laboratories, crystallization and biophysical characterization laboratories, and state of the art small-angle X-ray scattering and diffraction instrumentation.

Major Duties/Responsibilities:

*Responsible for protein production, protein labeling and purification

*Assist in protein crystallization and crystallography, and with small-angle scattering studies

*Assist in preparation of scientific papers on this collaborative research

*Assist in maintaining laboratory equipment

*Ensure compliance with environment, safety, health and quality program requirements.

*Maintain strong commitment to the implementation and perpetuation of values and ethics

*Physical requirements for this job include the use of hand and eye protection gear, kneeling, sitting for extended periods of time, and extensive work at chemical laboratories

Qualifications A master's degree in protein chemistry, biophysics or structural biology is required. The candidate should have a proven track record in molecular biology techniques including cloning, protein expression and purification, and in biophysical characterization techniques. Previous experience in crystallization and structural analysis will be an asset. The candidate should be self-motivated, have excellent interpersonal, communication and presentation skills, and a demonstrated ability to interact effectively with staff at all levels within a multi-disciplinary team.

Additional experience in expression and production of membrane proteins, eukaryotic expression systems, and cell-free protein synthesis would be a distinct advantage.

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Oak Ridge Associated Universities through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education (ORISE).

- Eligibility**
- Requirements**
- **Degree:** Master's Degree.
 - **Discipline(s):**
 - **Life Health and Medical Sciences** ([5](#) )
 - **Physics** ([1](#) )

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