

**Opportunity Title:** ORNL Neutron Scattering Post-Master's Research Associate

**Opportunity Reference Code:** ORNL18-07-NSD

**Organization** Oak Ridge National Laboratory (ORNL)

**Reference Code** ORNL18-07-NSD

**Description** The Neutron Sciences Directorate (NScD) at Oak Ridge National Laboratory 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 24 instruments for neutron scattering research, each year carrying out 1000 experiments in the physical, chemical, materials, biological and medical sciences for 2000 visiting scientists. 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 Scattering Division (NSD) invites applications for a M.S. biochemist/molecular biologist to join the Large Scale Structures Group at Oak Ridge National Laboratory (ORNL).

Major Duties/Responsibilities:

\*Responsible for protein production, protein labeling, purification, development of novel labeling strategies

\*Assist in protein crystallography, small-angle scattering studies

\*Assist in preparation of scientific papers

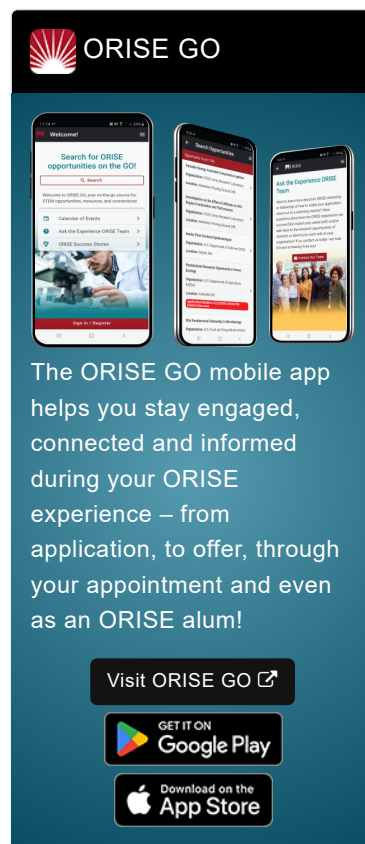
\*Ensure compliance with environment, safety, health and quality program requirements

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

## Qualifications

A M.S. degree and several years of work experience in the biological sciences (biochemistry, molecular biology, biotechnology) is required. The successful candidate will have understanding and experience of molecular biology and preparative biochemical techniques, including expression and purification of recombinant proteins from bacterial and eukaryotic sources. Expertise with recombinant DNA techniques including PCR, DNA cloning, mutagenesis, and protein expression is required. Additional expertise in membrane protein expression/purification would be a distinct advantage. The candidate should be self-motivated, have good interpersonal communication and presentational skills as well as a demonstrated ability to work effectively with staff at all levels within a multi-disciplinary team.

The ORNL Postgraduate Research Associates Program is administered by 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).



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- Eligibility**
- **Degree:** Master's Degree received within the last 60 month(s).
- Requirements**
- **Discipline(s):**
    - **Chemistry and Materials Sciences** ([12](#) 👁)
    - **Engineering** ([1](#) 👁)
    - **Environmental and Marine Sciences** ([1](#) 👁)
    - **Life Health and Medical Sciences** ([45](#) 👁)
    - **Physics** ([2](#) 👁)

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