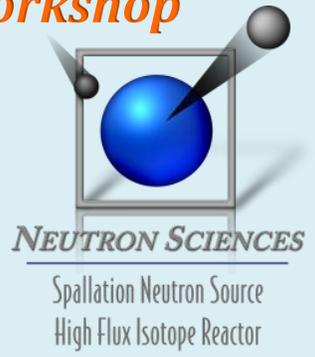


# JINS Joint Institute for Neutron Sciences

## 2<sup>nd</sup> Annual Neutron Scattering For Novices Workshop

May 16, 2012

Oak Ridge National Laboratory (ORNL) • Oak Ridge, TN



The Joint Institute for Neutron Sciences and the Neutron Sciences Directorate at ORNL will host a practical workshop on the 16<sup>th</sup> of May to introduce the capabilities and opportunities of neutron scattering to scientists with little or no neutron scattering experience.

### What can you do with neutrons?

Neutron scattering is a powerful suite of scientific tools for determining atomic and spin structure and dynamics and is widely used in condensed matter physics, materials science, materials chemistry, polymer science, biological sciences, and engineering. This workshop will include panel discussions, with the goal of allowing all participants an opportunity to explore how they might apply neutron methods to address the challenges in their research. By the end of the Workshop, the attendees should have the vision and knowledge to prepare their own beam line proposal for performing experiments at the HFIR and SNS at ORNL or other neutron facilities.

### Scope:

- Presenting examples of scientific problems that have been solved by neutrons in determining hard and soft matter structure and dynamics
- Thematically arranged breakout lecture sessions (Condensed Matter, Soft Matter, Biology)
- Working lunch allowing one-on-one discussions with instrument scientists to identify how neutrons can be used to solve participants' scientific problems
- Parallel thematic round table discussions led by expert panels
- Detailing the process of writing a proposal to obtain neutron scattering time
- Elaborating the process of planning and executing an experiment
- Hands-on experimental training

### Target Audience:

Faculty members, research scientists, and postdocs are welcome to apply. Senior PhD students may also be considered subject to availability of funds for the workshop. Once accepted, travel and lodging expenses will be reimbursed if coming from *an EPSCoR state*.

**Workshop Website:** <http://jins.tennessee.edu/novicesworkshop2012.html>

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