

Postdoctoral Position in Polarized Neutron Scattering at Indiana University

The Low Energy Neutron Source (LENS) at the Indiana University Cyclotron Facility (IUCF) is seeking a postdoctoral associate to work on a project to upgrade one of the country's foremost polarized neutron reflectometers, ASTERIX at the Los Alamos Neutron Science Center (LANSCE). The associate will be based at the IUCF and will work to design, simulate, assemble and test new components for ASTERIX. Included in the hardware will be a new wide-angle polarization analyzer, a two-dimensional position-sensitive neutron detector and spin flippers for a Spin Echo Resolved Grazing Incidence Scattering (SERGIS) option. The associate will be encouraged to pursue, in parallel, her/his own research agenda using one of the instruments at LENS (Small Angle Neutron Scattering and SERGIS) and/or by submitting competitive proposals to national neutron user facilities.

A PhD in physics, materials science, chemistry, engineering or similar field is required. A knowledge of neutron scattering is required, and experience with polarized neutron scattering, especially for reflectometry, will be an advantage. Successful experience with the design and fabrication of equipment for research is highly desirable. While there is no requirement for the research interests of applicants, preference will be given to those whose research can benefit from the use of SERGIS or polarized neutron reflectometry.

The position is for a two year term. Letters of application, curricula vitae and the names of at least three references should be sent to Dianne Dupree, IUCF, 2401 Milo B. Sampson Lane, Bloomington, IN 47408, or to didupree@indiana.edu <<mailto:didupree@indiana.edu>>. Inquiries about the position may also be directed to Prof. Roger Pynn at rpynn@indiana.edu <<mailto:rpynn@indiana.edu>>. Indiana University is an Affirmative Action, Equal Opportunity Employer committed to excellence through diversity. The University actively encourages applications of women, minorities, and persons with disabilities.