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Postdoctoral position in materials physics

2013-02-14

at the Department of Physics and Astronomy.

Application no later than 2013-04-07. UFV-PA 2013/432

Full time position during two years. Starting date May 1, 2013 or as agreed upon.

Surface dynamics explored with neutron scattering

Project description: Neutron scattering techniques offer two striking possibilities: First, neutrons are characterised by a high penetration power for many materials including application relevant elements and alloys. Second, the option of contrast enhancement through hydrogen-deuterium isotope mixing is of a distinctive advantage. But even more important is the low energy of neutrons resulting in a high energy resolution achieved on specialised neutron instrumentation and diminishing beam damage to the sample. A comprehensive study of the structure and the dynamics of the near interface region of liquids and membranes should take full advantage of neutron scattering techniques.

The work will be based within the Materials Physics group (<http://material.fysik.uu.se/>) which has a long experience in neutron scattering techniques.

The successful candidate will perform surface sensitive quasielastic and inelastic neutron scattering in test experiments and computer simulations. The effort will result in the planning of a neutron scattering instrument dedicated to resolve surface dynamics by combining the time structure of the future spallation source ESS with energy analysis from crystal diffraction or refraction.

Qualifications required: To qualify for a postdoctoral position the applicant must have a PhD degree (received not longer than 3 years before the deadline for application) with a major in physics. We are looking for a devoted, motivated, and hard-working candidate willing to work in a stimulating research field. To become successful the candidate must have a deep interest in material physics and in particular in the field of neutron scattering. Deep knowledge of neutron instrumentation and basic knowledge of ray tracing simulations is indispensable to be successful in this project.

The PostDoc work is connected to experiments at large international facilities. Ability to collaborate and the willingness for traveling is therefore of importance. Excellent knowledge of the English language is mandatory and basic knowledge of Swedish would strengthen your application.

How to apply: The application should be written in English and must include a statement of research interest (clearly linking to the proposed research project), a CV, copies of exams, degrees and grades, a copy of your PhD thesis, published articles and letters of recommendation. Incomplete applications will not be considered.

For more information, please contact: Max Wolff, max.wolff@physics.uu.se. Union representatives: Anders Grundström, Saco-rådet, tel. 018-471 5380, Carin Söderhäll, TCO/ST, tel. 018-471 1966 och Stefan Djurström, Seko, tel. 018-471 3315.

You are welcome to submit your application **no later than April 7, 2013. UFV-PA 2013/432.** Use

the link below to access the application form.

[Postdoctoral position in materials physics](#)



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