SwedNess Graduate School PhD Postions

SwedNess, which is a graduate school for neutron scattering operated by six of Sweden's largest academic institutions/universities. The school is fully funded by the Swedish Foundation for Strategic Research (SSF) and aims to educate a new generation of highly skilled neutron experts.

The research project covers a broad range of scientific fields of high interest for both academia and industry. Within SwedNess the focus will be on excellence in science, high-level education as well as national- and international networking, which includes hands-on training at facilities around the world. Each PhD-student is fully funded from the start, including salary and a sufficient running budget. The latter facilitates so all students will have the possibility to routinely travel to external experiments and to make study visits at international facilities, institutions and conferences. In addition, for each PhD-student, there is a mandatory extended international stay of 2-6 months at a state-of-the-art neutron facility or distinguished research group.

We are now opening the first 10 PhD-positions (click on the research titles for more information):

Exploration of the pressure-induced amorphization and glassy states of clathrate hydrates
Project supervisor: Ulrich Häussermann, Stockholm University

Novel neutron multilayer optics by dynamic scattering length density tailoring during growth
Project supervisor: Jens Birch, Linköping University

Can neutron scattering elucidate mechanisms behind bone damage
Project supervisor: Hanna Isaksson, Lund University

Understanding high-temperature structural materials through in-situ neutron scattering
Project supervisor: Magnus Hörnqvist Colliander, Chalmers University

Neutron Diffraction for Time Resolved Investigations of Anionic Redox Materials for Lithium and Sodium Ion Batteries
Project supervisor: Kristina Edström, Uppsala University

Novel electrolytes for next generation batteries: revealing ion transport mechanisms through neutron scattering
Project supervisor: Aleksandar Matic, Chalmers University

3D-printed alloys revealed – structure/property relations in additive manufacturing as seen with neutron scattering
Project supervisor: Martin Häggblad Sahlberg, Uppsala University

Imposing curvature on biological membranes – using nanoscience to help understand immune response
Project supervisor: Tommy Nylander, Lund University

Neutron scattering studies to optimize sintering of novel hard metals
Project supervisor: Peter Hedström, KTH Royal Institute of Technology

Residual stress management in 3D-printing
Project supervisor: Ru Lin Peng, Linköping University

If you require additional information:

Contact: Camilla Dann (SwedNess Administration)

Email: info@swedness.se

Website: http://www.swedness.se/

You can apply for any (or several) of the different projects found in the list above. Please note that the application(s) should be submitted on each university's own website.

Application Deadline: 31st January 2017