

PhD POSITION
Theory and Modeling Research Division
at Linköping University, Sweden

A PhD position in theoretical condensed matter physics is available at the Department of Physics, Chemistry and Biology, Linköping University, Sweden.

Linköping University is a recognized leader in Sweden in the field of materials science and nanotechnology, with several Strategic Centres set up recently, where theory and experiment are deeply interconnected. The goal of the project is to develop theoretical understanding of an effect of alloying on thermodynamic and mechanical properties of materials. The obtained knowledge will be used for the design of novel multicomponent hard thin film coatings based on transition metal nitrides. The position is a part of the project, supported by the Swedish Foundation for Strategic Research. The theory group is participating in the development of the simulation tools for the electronic structure calculations, molecular dynamics and statistical mechanics simulations.

We are looking for a strong motivated candidate with very good knowledge of physics. Experience in first-principles calculations and/or statistical mechanics/molecular dynamics simulations, as well as programming skills in Fortran and /or C++ are desirable.

Interested candidates should submit their applications before December 15, 2009 to Prof. Igor A. Abrikosov, Head of Theory and Modeling Division, Department of Physics, Chemistry and Biology (IFM), Linköpings University, SE-581 83 Linköping, Sweden, e-mail: igor.abrikosov@ifm.liu.se, <http://cms.ifm.liu.se/theomod/theophys/>