

PhD Position in Physics



The thin film and semiconductor physics group at the Science Institute University of Iceland and the Department of Physics and Astronomy at the University of Århus, Denmark, have one vacant position for a PhD student in Defect-related magnetism in wide-bandgap semiconductors. The main focus of the research work will be sample preparation and characterisation for study with ^{57}Fe emission Mössbauer spectroscopy following implantation of radioactive ^{57}Mn . The Mössbauer measurements are performed at the ISOLDE facilities at CERN, Switzerland.

Qualifications

- The student must have completed a MSc degree or an equivalent degree in physics or electrical engineering.
- Experience with one or more of the following fields is required: Thin film growth, characterisation and clean-room fabrication and/or Mössbauer spectroscopy.
- Ability to work independently and responsibly is essential.
- Good communication skills and excellent English skills are required.

Terms

The PhD student will be project-funded employee of the Science Institute at the University of Iceland. The period of employment is 3 years with a possibility of extension, depending on successful project funding. The student will stay 60% of the time in Iceland, 20% in Århus and 20% at CERN. We offer an exciting and challenging job in an international research environment. Iceland offers unique vacation possibilities (<http://www.visiticeland.com>) and good airline connections to Europe and North America.

Application

Please e-mail your CV to Prof. H.P. Gunnlaugsson (hpg@phys.au.dk). Please include a publication list and names/e-mail addresses of at least two senior academic persons who are able and willing to give references. Supplementary documentation will be required from selected applicants. Applicants from outside the EU/EEA should allow for up to 3 months for handling of immigration documents. The application deadline is May 10th 2008.

University of Iceland Profile

The Science Institute is an independent research institution affiliated with the University of Iceland. The thin film- and semiconductor physics group are lead by Senior Research Scientist Sveinn Ólafsson (sveinol@hi.is) and Prof. Haflíði Pétur Gíslason (haflidi@raunvis.hi.is).

The ^{57}Mn collaboration at ISOLDE/CERN

The collaboration consists of scientists from institutes in Europa (Denmark, Iceland, Belgium, Germany and Italy) and South Africa. The aim of the group is to utilize the ^{57}Mn beam at ISOLDE/CERN for Mössbauer studies of specific materials. Given the current high interest in Diluted Magnetic Semiconductors, this has been the main subject of the group in recent years.