



University of
Stavanger

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Department of Mechanical and Structural Engineering and Materials Science

The University of Stavanger (UiS) has about 10,100 students and 1,400 employees. The University is located in the third largest urban region, with a dynamic labor market and exciting cultural and leisure activities. We are the only Norwegian member of the European Consortium of Innovative Universities. The university has high ambitions. We will be a driving force in the development of knowledge in the region, and an international research university with an emphasis on innovation. Together with our staff and students, we will challenge the well-known and explore the unknown.

Department of Mechanical and Structural Engineering and Materials Science is part of the Faculty of Science and Technology. The department carries out research and offers study programs in Offshore Technology, Marine and Subsea Technology, Industrial Asset Management, Structural Engineering and Mechanical Engineering. The department has a high international profile with students and staff from around the world. There are currently 60 employees including research fellows and postdocs, and 660 students at the department.

Research fellow in Materials Science

The University of Stavanger invites applications for a doctorate scholarship in Materials Science at Department of Mechanical and Structural Engineering and Materials Science, Faculty of Science and Technology.

This is a trainee position that will mainly give promising researchers an opportunity for professional development leading to a doctoral degree.

The research fellow will be appointed for three years with only research duties or four years with research and 25% compulsory duties. The position is vacant from January 2016. The appointee can accede when he/she is admitted to the PhD program in Offshore Technology (specialization in Mechanical Engineering and Materials Science) with an agreement to complete the doctorate within the duration of the scholarship.

The faculty have ambitions of to increase the research activity on environmentally friendly energy. The given PhD position, concerning thermoelectric materials, is linked to this ambition. The title of the project is "structure of thermoelectric materials" Thermoelectric materials can be used to convert temperature differences into electrical power using the thermoelectric effect. It also works the other way around, creating cooling/heating from electrical power.

In the research project we will deal with interaction between microstructure of thermoelectric materials and their thermoelectric properties.

The post holder should work mainly with a JEOL 2100 TEM instrument. Structure determination from electron diffraction data collected by the rotation method in the TEM instrument will be the basis for the thesis. Improvement of the method, experimental as well as theoretical will be essential. A background in transmission electron microscopy, diffraction as well as experience from a programming language is a benefit.

The position is founded by Norwegian Ministry of Education and Research.

Applicants must have a strong academic background with a five-year master degree within materials science/materials technology, physics, chemistry or nanotechnology, preferably recently, or possess corresponding qualifications which could provide a basis for successfully completing a doctorate. Both the grade for the master's thesis and the weight average grade of the master's degree must individually be equivalent to or better than a B grade.

By rating it will be placed on the applicant's potential for research in the field, as well as that person's individual prerequisites for research education.

The appointee must be able to work independently and as a member of a team, be creative and innovative. The research fellow must have a good command of both oral and written English.

This fellowship position is important for obtaining a scientific position at a University.

The doctorate will mainly be carried out at the University of Stavanger, apart from a period of study abroad at a recognized and relevant centre of research.

The research fellow is salaried according to the State Salary Code, l.pl 17.515, code 1017, LR 20, ltr 50, of NOK 430 500 per annum.

The position provides for automatic membership in the Norwegian Public Service Pension Fund, which guarantees favourable retirement benefits. Members may also apply for home investment loans at favourable interest rates.

Project description and further information about the position can be obtained from Professor Vidar Hansen, telephone +47 51 83 21 54, email vidar.hansen@uis.no. Information about the appointment procedures can be obtained from Helga Bøe, telephone +47 51 83 21 84, email helga.h.boe@uis.no

The University is committed to a policy of equal opportunity in its employment practices. The University currently employs few female research fellows within this academic field and women are therefore particularly encouraged to apply.

Certificates/diplomas, references, list of publications and other documentation that you consider relevant, should be submitted as attachments to the application. Please upload all attachments as separate files. If the attachments exceed 15 MB altogether, they will have to be compressed before uploading.

Jobbnorge ID: 115646, Deadline: 1/7/2016