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LUND UNIVERSITY
Faculty of Science

Faculty Office
Personnel Manager Anders Lindahl

Lund University announces an opening for an

Associate Senior University Lecturer in Hard X-ray Methods for Investigations of Matter

Lund University is Scandinavia's largest institution for education and research in a large number of disciplines, such as engineering, natural sciences, law, social science, economics, medicine, theology and the arts. The University has over 39 000 students and approximately 5 500 employees located in Lund, Malmö and Helsingborg. We have a comprehensive global network and a growing co-operation within the Öresund University framework within Southern Sweden and Eastern Denmark.

The Department of Physics has roughly 250 employees (including PhD-student)s and has a total turnover in excess of 25 M€. The department is a part of both the Faculty of Science and the Faculty of Engineering. Our educational mission is roughly 460 full year equivalents, ~190 at the Faculty of Science and ~270 at the Faculty of Engineering. The Department of Physics is characterized by strong research, a highly international environment with strong international cooperation, substantial external funding, and by extensive collaboration within the department as well as with other parts of the university.

The division of Synchrotron Radiation Research today has 8 teachers/researchers, of which 3 are full professors. The research has substantial funding from the Swedish Research Council and the European Union, among others, and is directed towards fundamental studies of the electronic and geometric structure of solid materials, surfaces, nano-structured materials, molecular materials and clusters primarily by the use of synchrotron radiation and scanning probe based methods. Active collaborations exist with several research groups/divisions within Lund University, e.g. the Nanometer Structure Consortium at Lund University and the Linnaeus Centre "Nanoscience and Quantum Engineering", and at other Swedish and foreign universities. Of special importance for the present position is the division's aim to strengthen expertise in materials science, in particular concerning the use of hard X-ray based methods for materials characterization, and the goal of active participation in the development of hard X-ray based facilities at the national synchrotron radiation laboratory MAX-lab in particular the novel opportunities in the hard X-ray region offered by the MAX IV project.

Please see the home pages of the division (http://www.sljus.lu.se) and the MAX-laboratory (http://www.maxlab.lu.se).

Basic facts regarding the position

Reference no: 3903
Closing date for applications: February 19, 2010
Date of appointment: As soon as possible
Placement: Division of Synchrotron Radiation Research, Department of Physics
Trades unions at Lund University: OFR, SACO and SEKO
Information about the position: Professor Jesper Andersen, +46 (0)46 222 4153, jesper.andersen@sljus.lu.se
Information about conditions of employment and the application process: Faculty Personnel Coordinator Johan Eliasson, +46 (0)46 222 94 58, johan.eliasson@kanslin.lu.se

In addition to the general rules of the University, the following requirements and preferences apply.

Description
The appointment is initially limited to four years, but can be made permanent following an evaluation procedure.

The work tasks are primarily research and teaching on basic and graduate levels, with at least 80 % research. The tasks, as well as the proportion of research and teaching, can be changed over time.

The successful candidate is expected to play a key role in building up active research within the specified field and neighbouring research areas. Hard X-ray methods for investigations of matter to a large extent represents a new research area at the division which the successful candidate is expected to build up and couple to existing research fields at the division. The successful candidate is also expected to approach the new possibilities offered by MAX IV. The position also involves applying for external funding and developing cooperation with other university units and other governmental organisations, involved in this type of research. The proportion between teaching and research can change over time and other duties can be included.

The teaching comprises courses on all levels within the field, as well as supervision of Bachelor, Master and PhD students. The successful candidate is expected to participate in the development of new courses within the field at the bachelor's level as well as at the advanced level.

Qualifications
To be eligible for an appointment as associate senior lecturer, a person must, according to Chapter 4, Sect 8a of the Higher Education Ordinance (SFS 1998:1003), have successfully completed a PhD degree or have corresponding scientific competence in a relevant subject area. A person who holds a foreign degree that is deemed equivalent to a doctorate shall be qualified for appointment as associate senior lecturer.

Priority should be given to candidates who have completed their degree no more than five years before the last date for applications. Candidates who have completed their degree earlier than this should receive equal priority if special grounds exist, for example leave of absence because of sickness or parental leave.

The main criteria for the position are pedagogic and scientific skills. Emphasis will also be put on the extent to which the applicant can contribute to the development of the education and establishment of a new and active research profile within hard X-ray methods for investigations of matter at the Department. Documented experience of collaboration is also of great importance. Experience of planning, developing, and conducting research and education is considered a merit.

The successful candidate must have documented experience in the use of hard X-ray based methods for the characterization of materials. Documented experience in method - and/or instrumental development within this area is considered a further merit. Previous experience in the use of synchrotron radiation is a merit. Emphasis will be put on the extent to which the applicant has experience with methods relevant to established research areas and materials systems at the Division.

Regulations for evaluation of qualifications for teaching positions are given in *chapter 4 sekt 15 Higher Education Ordinance (SFS 1998:1003)*, in *Lund University Teacher Appointment Regulations*, (http://www3.lu.se/pers/Regler/aolu02_en.pdf) and in the *Strategic plan* of Lund University (http://www.lu.se/upload/LUPDF/Om_LU/Strategicplan_2007_2011.pdf).

The University strive to achieve an even gender balance. Therefore, applications from women, as well as from men, are encouraged.

Promotion to a permanent position as senior lecturer
An associate senior lecturer shall on application be promoted to a permanent position as senior lecturer, if he or she is qualified for such an appointment and is in addition deemed suitable in the light of the grounds of assessment established by the institution for promotion to senior lecturer.

The assessments for promotion to a permanent position are:

- Well documented scientific competence or other skills important for the subject of the position or the tasks included.
  Commentary: The Faculty of Science will place great emphasis on the applicant having been appointed to docent (habilitation).
- Well documented pedagogical skills.
  Commentary: The Faculty of Science will place great emphasis on the applicant having shown interest for pedagogical development, for example by attending classes in university teaching, and an ability to teach in Swedish and English.
- Good standing as a scientist, nationally and internationally.
  Commentary: The Faculty will, with consideration to the character of the subject, place great emphasis on the ability to successfully apply for research grants from national and/or international funders.
- Ability to advise graduate students.
  Commentary: When judging the ability to advise students, the Faculty will also place emphasis on the ability to advise master's theses.
- Ability to develop, lead and carry out education and research,
- Good academic leadership abilities and other personal abilities of importance for the position.
- Ability to interact with society and inform on research and development.

An application for promotion to a permanent position as senior lecturer is to be submitted to the relevant teacher's appointment board **at the latest 8 months** before the appointment as assistant senior lecturer ends. The application for promotion is to be judged by the

teacher's appointment board after acquisition of the opinion of at least two experts on the subject.

Required content of the application
The Faculty Board has specified instructions for the application and its accompanying documents. These can be found at the Internet address:
http://www.naturvetenskap.lu.se/o.o.i.s/11729
(http://www.naturvetenskap.lu.se/anstallning)

Information can also be obtained upon request by e-mail or ordinary mail.

By commission

Anders Lindahl