Academic Technical position at Department of Chemistry, Aarhus University: Scanning and transmission electron microscopy within materials science

The Department of Chemistry is seeking applications for an academic candidate (AC-TAP). The position includes scientific, administrative and teaching tasks at the Department of Chemistry within materials chemistry.
The intended start date for this appointment is June 1st, 2025 or as soon as possible.

Application Deadline:
06 April 2025

Faculty:
Faculty of Natural Sciences

Institute/Faculty:
Department of Chemistry

Academic contact person:
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Vacant positions:
1

Hours per week:
37

Expected date of accession:
01/06/2025

Job description

The candidate is expected to contribute to:

- Installation, maintenance, user training, and management of the scanning and transmission electron microscope facility for materials science at iNANO and Department of Chemistry.
- Assistance and support of users in various aspects of scanning electron microscopy (SEM), FIB-SEM, and transmission electron microscopy (TEM) experiments and data analysis.
- Management of additional sample environments, sample preparation methods, computing facilities, etc.
- Management of commercial and in-house developed analysis and simulation software for EM studies.
- Management of the booking system, data backup, and data distribution.
- Participate in teaching relevant laboratory courses.
- Various tasks related to the Department of Chemistry.

The position is affiliated with the Center of Excellence, Center for Sustainable Energy Materials. The candidate will be part of a technical team with other academic technicians, who support research in materials chemistry at the Department, and who share some of the daily duties in support, maintenance and continuous development of the suite of instruments in the field of materials chemistry.

The electron microscopy facility currently includes three instruments: A TFS Talos 200F equipped, among other features, with a Quantum Detectors 4-chip Merlin hybrid pixel detector, a Tescan Clara UHR SEM equipped with EDX and EBSD detectors and a TFS Versa 3D Focused Ion Beam SEM.

Your profile

Candidates are expected to have a solid background in electron microscopy, including experience with SEM, STEM, TEM, STEM-EDX, and 4D-STEM. Abilities to process data through Python programming will be viewed favorably. A thorough technical understanding of various EM-based experiments and the ability to set up non-standard, e.g. (4D)-(S)TEM, experiments and data collection is beneficial.

The candidate should hold a PhD in chemistry, crystallography, chemical engineering, nanoscience, physics, or a related field. Experience in training or teaching people on electron microscopes is a benefit.

We offer a job opportunity in a vibrant and inspiring research and education environment with an informal atmosphere. The ideal candidate will be a team contributor with the ability to oversee own tasks and maintain an organized approach. You appreciate engaging with colleagues across various roles, including scientific, academic, and technical-administrative staff, and you enjoy interaction with students at all levels. We expect that you can structure your time and significant tasks efficiently on your own.

You are proficient in English. Candidates who do not speak Danish, are encouraged to follow Danish courses.

We offer the opportunity to work in a distinguished scientific and educational

environment and to support your development, e.g. through courses and conference participation.

For further information on the position please contact Assist. Prof. Espen D. Bøjesen (tel +45 8715 0362, Espen.bojesen@inano.au.dk).

Place of work

The place of work is Langelandsgade 140, 8000 Aarhus C, and the area of employment is the Department of Chemistry, Aarhus University and related departments.

Formalities and salary range

Salary and terms as agreed between the Danish Ministry of Taxation and the Confederation of Professional Unions.

Aarhus University's ambition is to be an attractive and inspiring workplace for all and to foster a culture in which each individual has opportunities to thrive, achieve and develop. We view equality and diversity as assets, and we welcome all applicants.

The application must be submitted via Aarhus University's recruitment system, which can be accessed under the job advertisement on Aarhus University's website.

Aarhus University

Aarhus University is an academically diverse and research-intensive university with a strong commitment to high-quality research and education and the development of society nationally and globally. The university offers an inspiring research and teaching environment to its 38,000 students (FTEs) and 8,300 employees, and has an annual revenues of EUR 935 million. Learn more at www.international.au.dk/