

## **Application Specialist for electron microscopy facility with focus on TEM – permanent position**

DTU Nanolab, a core facility at the Technical University of Denmark, is seeking a highly skilled application specialist to join our dynamic team. As a specialist, you will have the opportunity to work with state-of-the-art technical equipment, including our suite of Electron Microscopes and Focused Ion Beam equipment. Your primary responsibilities will include introducing and training students and researchers on the equipment and ensuring that it is well-maintained and operational at all times.

DTU Nanolab runs a cutting-edge facility equipped with advanced electron microscopes and top-of-the-line equipment that cater to diverse scientific disciplines. Our facility is equipped to handle a wide range of applications including materials science and biological sample preparation and investigation. The current microscopes include two dual-beam, three scanning electron microscopes (SEMs), two aberration-corrected transmission electron microscopes (TEMs) and a conventional TEM (all by ThermoFisher Scientific) equipped with different analytical techniques. We just recently installed a new ThermoFisher Spectra Ultra double corrected and monochromated TEM, the first of this type in the Nordic area.

### **What we are looking for**

We are seeking a highly skilled, curious, and dedicated application specialist with good communication skills to join our technical support team. We are a multi-gender workplace and strongly encourage candidates of all genders to apply.

The successful applicant must have a proven track record in electron microscopy, and preferably, high-end transmission electron microscopy, including aberration corrected TEM/STEM, monochromator, EELS/EFTEM, iDPC, and 4D-STEM. Candidates with experience in related equipment such as detectors and preparation equipment will also be considered based on their background. As we are working with different tools combining multiple areas, you must be comfortable navigating challenging environments and solving complex problems.

The successful applicant will be flexible in their approach to daily work tasks, able to work independently, and proactive in tackling assignments.

You will work as a part of a dynamic technical team. The team is part of the core technical staff of DTU Nanolab and is responsible for tools being operational as well as providing new users training on microscope operation and basic techniques. Furthermore, collaborations with our research staff are encouraged.

### **Primary areas of responsibility**

Act as a primary contact for a number of tools, which includes:

- Operate and instruct users mainly on our transmission electron microscopes
- Maintain, troubleshoot, install, and upgrade equipment including TEM, FIB, SEM, and sample preparation tools
- Help keeping the facilities and labs running
- Communicate/liaise with national and international suppliers
- Be involved in keeping a safe workplace for all that work at the facility

## What we offer

DTU Nanolab is an international environment, which is interesting and challenging. We focus on research, teaching, scientific advice and innovation for the benefit of DTU and society. We have an informal work atmosphere, where people are curious to learn new things. DTU Nanolab offers great flexibility in the position and expects a certain flexibility if needed from you as well.

## Salary and appointment terms

The position is permanent and full-time (37 hours per week). Starting date as soon as possible (according to mutual agreement). The workplace is DTU Lyngby Campus.

Salary and appointment terms are in accordance with either the collective agreement with the Danish Confederation of Professional Associations (AC), or the OAO-S Joint Agreement and the organization agreement for Laboratory Technicians and IT staff (HK/Stat), for Craftsmen and Technicians, for Engineering Assistants and Research Technicians at research institutions, etc., or other relevant agreement.

## Application and contact

Please submit your online application no later than **19 Januar 2024 (local time)**. You can apply for the position online at <http://www.career.dtu.dk/> via the "Apply now" link, fill out the form and attach your motivated application (in English), CV and exam certificates.

If you would like additional information about the position, please contact Head of Microscopy Support Jens Kling, [jenk@dtu.dk](mailto:jenk@dtu.dk). Read more about DTU Nanolab at [www.nanolab.dtu.dk](http://www.nanolab.dtu.dk).

Applications received after the deadline will not be considered.

All interested candidates irrespective of age, gender, race, disability, religion or ethnic background are encouraged to apply.

*DTU Nanolab is a common infrastructure and research facility located at and fully owned by the Technical University of Denmark, DTU. The core facilities consist of a large cleanroom and a state-of-the-art electron microscopy center inaugurated in 2007. The research activities carried out at DTU Nanolab span from nano- and microfabrication with Silicon-based materials, carbon and polymers to the highly sophisticated analysis of nanoscale materials in hard and soft matter. Since 2018, DTU Nanolab is extended to provide expertise in soft matter from small molecule complexes to biological cells.*

## *Technology for people*

*DTU develops technology for people. With our international elite research and study programmes, we are helping to create a better world and to solve the global challenges formulated in the UN's 17 Sustainable Development Goals. Hans Christian Ørsted founded DTU in 1829 with a clear vision to develop and create value using science and engineering to benefit society. That vision lives on today. DTU has 13,400 students and 5,800 employees. We work in an international atmosphere and have an inclusive, evolving, and informal working environment. DTU has campuses in all parts of Denmark and in Greenland, and we collaborate with the best universities around the world.*