

The Center for Electron Nanoscopy in the Technical University of Denmark (DTU Cen) is seeking a TEM / FIB-SEM Research Specialist

DTU Cen invites applications for a TEM / FIB-SEM research specialist for its suite of advanced electron microscopes manufactured by FEI Company.

This is a postdoctoral appointment for up to three years funded by a European Union project entitled "Improved material quality and light trapping in thin film silicon solar cells " with the following primary areas of responsibility:

- Characterization of the microstructures, chemical compositions and electronic properties of layers and interfaces in high-efficiency solar cells grown on a variety of substrates using both focused ion beam sectioning (including electron backscatter diffraction and energy dispersive X-ray analysis) and advanced transmission electron microscopy techniques (including aberration-corrected electron microscopy, high-angle annular dark-field imaging, electron energy-loss spectroscopy and off-axis electron holography).
- If time permits, the development of approaches for examining thin film solar cells in transmission and/ or scanning electron microscopes in gas environments and under conditions of applied electrical bias and *in situ* illumination with light.
- Provision of regular feedback about specimens to project partners.
- Dissemination of research by publishing papers.

The position is full-time (37 hours per week).

Qualifications

Candidates should have academic qualifications equivalent to the PhD level. A good command of English is required.

Employment conditions

The salary and appointment terms are negotiated in accordance with the current collective agreement for Danish University faculty members.

Further information

For further information please contact DTU Cen's Director Rafal Dunin-Borkowski, E-mail rdb@cen.dtu.dk.

Application procedure

Applications should be submitted in English and include a C.V. and covering letter.

You must submit your application online, from the Vacancies page on the website of the Technical University of Denmark (http://www.dtu.dk/English/About_DTU/vacancies.aspx), no later than **11th January 2010**. Please open the link "apply for this job online", fill in the application form and attach your application and CV, including a list of publications.

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

DTU Cen was inaugurated in December 2007 and contains seven electron microscopes in a high-specification building. The building was constructed to provide the best possible operating conditions for the instruments; these include two aberration-corrected monochromated Titan transmission electron microscopes and two dual-beam focused ion beam scanning electron microscopes. DTU is located ten km north of Copenhagen and is one of the largest technical universities in Northern Europe. DTU Cen is one of the smallest of DTU's departments and the youngest, inaugurated in 2007. The language in the department is English.