

Draft announcement:

Associate Professor in Semiconductor Physics

A permanent position in experimental Semiconductor Physics is available at Physics Department at an Associate Professor level (SKO 1011). In accordance with the university's appointment regulations, an associate professor may subsequently apply for a promotion to a full professor rank as soon as the corresponding qualification is attained.

The successful candidate is expected to initiate, carry out and lead experimental research activities within the field of "Semiconductor Materials, Nanophysics and Quantum Technology". She/he is expected to acquire external funding to new research projects in this area, to supervise PhD and MSc candidates, and to participate in teaching.

The infrastructure managed by the Semiconductor Physics Group at the Physics Department of University of Oslo is based on the Micro- and Nanotechnology Laboratory (MiNaLab) with a clean room area in excess of 400 m², as well as a park of modern growth and characterization facilities. The growth facilities include ALD, MOCVD, and magnetron sputtering (including an UHV cluster system to be installed during 2018). The key characterization tools are (in arbitrary order): SIMS, FTIR, PL, XRD, XPS/ARPES, DLTS, SPM, CL etc.

Requirements, Desired Qualification and Personal Skills

The successful candidate must have the following requirements:

- ✓ A PhD degree in Physics
- ✓ In-depth knowledge of semiconductor physics; strong documented research competence within this field
- ✓ Pedagogical skills and an ability to take active part in teaching
- ✓ Leadership and collaborative skills

The following qualifications will be given particular weight in the assessment (in priority order):

- ✓ Documented research competence and interests in areas complying with the infrastructure at UiO-MiNaLab
- ✓ Strong academic qualifications and strong record of international peer-reviewed publications in journals with high impact factors in the scope of the position (with emphasis on the past five years record)
- ✓ Participation in international research consortia, projects, or organizations; experience of collaboration across established academic disciplines, as well as an ability to build national and international networks

- ✓ Pedagogical experience on master or bachelor levels; ability to supervise and inspire students
- ✓ Documented experience in project writing and management/co-management
- ✓ Communication skills, interpersonal skills and public outreach skills

Teaching languages are both Norwegian and English. Good oral and written command of English or a Scandinavian language is required.