Associate Professor in Semiconductor Physics

A permanent position in experimental Semiconductor Physics is available at Physics Department of University of Oslo 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.

Present activities and interests at the Semiconductor Physics Group include (in random order) photovoltaics, thermoelectric materials and systems, light emitting materials and structures, semiconductor-based quantum technology, 2D materials, radiation detectors and MEMS. The successful candidate is expected to propose new projects within "Semiconductor Materials, Nanophysics and Quantum Technology" and/or strengthen one or more of these activities.

The successful candidate is expected to initiate, carry out and lead experimental research activities within her/his field. She/he is expected to acquire external funding to new research projects, to supervise PhD and MSc candidates, and to participate in teaching.

The infrastructure managed by the Semiconductor Physics Group is based on the Micro- and Nanotechnology Laboratory (MiNaLab) with a clean room area in excess of 400 m^2, 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, Hall, LFA, XRD, XPS/ARPES, Seebeck, 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
- ✓ Proven ability to collaboration across established academic disciplines and 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.