Researcher in Semiconductor physics

Job description

Position as Researcher available at The Department of Physics/ Centre for Materials Science and Nanotechnology, University of Oslo (UiO), Norway.

The position is for a period of 2 years, with a preferred starting date in summer 2020.

Project description

The Semiconductor physics section/LENS (Light and Electricity from Novel Semiconductors) under the Department of Physics/Centre for Materials Science and Nanotechnology is responsible for the operation of the Micro and Nanotechnology laboratory (MiNaLab) at UiO. MiNaLab is among the largest single experimental facilities at UiO, and partner of the national infrastructure project NorFab (Norwegian Micro- and Nanofabrication facility), partly funded by the Norwegian Research Council.

The position is supported by the Norwegian Research Centre for Sustainable Solar Cell Technology (FME-SUSOLTECH) in collaboration with the University of Oslo. The Centre joins the major research groups and important industry partners in the PV sector in Norway and it is partly funded by the Research Council of Norway. The main objective is to give current and future companies in the Norwegian PV industry long-term access to world leading technological and scientific expertise. The Centre has a research infrastructure covering the whole value chain. The infrastructure at University of Oslo includes the Micro- and Nanotechnology Laboratory (MiNaLab) with a clean room area in excess of 400 m2 as well as a park of modern characterization facilities.

The position is dedicated to opto-electronic characterization of solar grade silicon. The work will focus on characterization of impurities, such as hydrogen and oxygen, in silicon. FTIR is anticipated to be the prime technique.

Qualification requirements

The Faculty of Mathematics and Natural Sciences has a strategic ambition is to be among Europe’s leading communities for research, education and innovation. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

- Applicants must hold a degree equivalent to a Norwegian doctoral degree in within materials science or physics. Doctoral dissertation must be submitted for evaluation by the closing date. Only applicants with an approved doctoral thesis and public defence are eligible for appointment.
- Documented experience in FTIR (e.g. in form of publications in refereed journals)
- Fluent oral and written communication skills in English.

We offer

- salary NOK 523 200 - 627 700 per annum depending on qualifications in position as Researcher (position code 1109)
- a professionally stimulating working environment
- attractive welfare benefits and a generous pension agreement, in addition to Oslo’s family-friendly environment with its rich opportunities for culture and outdoor activities

How to apply

The application must include

- Cover letter (statement of motivation, summarizing scientific work and research interest. Including a short description of scientific interests and the motivation for applying for the position.)
- CV (summarizing education, positions, and academic work - scientific publications and other qualifying activity)
- Copies of educational certificates, academic transcript of records and letters of recommendation
- A complete list of publications and up to 5 academic works that the applicant wishes to be considered by the evaluation committee
- Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number)

The application with attachments must be delivered in our electronic recruiting system, please follow the link "apply for this job". Foreign applicants are advised to attach an explanation of their University’s grading system. Please note that all documents should be in English (or a Scandinavian language).

In assessing the applications, special emphasis will be placed on the documented, academic qualifications and the candidates’ motivation and personal suitability. Interviews with the best-qualified candidates will be arranged.

It is expected that the successful candidate will be able to complete the project in the course of the period of employment.
Formal regulations

According to the Norwegian Freedom of Information Act (Offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure.

The University of Oslo has an agreement for all employees, aiming to secure rights to research results etc.

The University of Oslo aims to achieve a balanced gender composition in the workforce and to recruit people with ethnic minority backgrounds.

Contact information

For further information please contact: Eduard Monakhov, e-mail: eduard.monakhov@fys.uio.no

For technical questions about the recruitment system, HR Adviser Ørjan Pretorius, email: orjan.pretorius@mn.uio.no

About the University of Oslo

The University of Oslo is Norway’s oldest and highest rated institution of research and education with 28 000 students and 7000 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

Centre for Materials Science and Nanotechnology (SMN) is an interdisciplinary focus field for material and energy research at the University of Oslo. SMN has focused on basic research in renewable energy and environmentally friendly use of fossil energy sources. The center consists of research groups from the Department of Physics (Fi) and Chemistry (Ki), has about 100 employees from around the world and manages more than 80 projects funded by the EU, the RCN and others.

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