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Engineer position at Micro and Nanotechnology Laboratory (MiNaLab)

About the position

A permanent position as cleanroom engineer (Head or Senior Engineer, depending on candidate's qualifications) within the field of Semiconductor physics/technology is available at The Department of Physics / Centre for Materials Science and Nanotechnology.

Job/ project description:

The Semiconductor Physics division / 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). MiNaLab is an advanced research infrastructure and is among the largest single experimental facilities at UiO. MiNaLab is operated in partnership with SINTEF, and is a partner in the national infrastructure project Norwegian Micro- and Nanofabrication Facility (NorFab), partly funded by the Research Council of Norway.

Research and education at the UiO part of MiNaLab (UiO-MiNaLab) combines materials science, micro- and nanotechnology for applications in Electronics, Energy and Life Sciences. These activities are carried out both by the Semiconductor Physics Section itself and by external - academic and industrial - users of the lab. To conduct the activity, UiO-MiNaLab is equipped with more than 40 advanced instruments, with an investment cost in the range of 100 MNOK. These instruments include ARPES, XRD, SEM, SIMS, Hall effect, SPM, Magnetron sputtering, PLD and ALD. See <http://www.norfab.no/lab-facilities/uio-minalab/> for more details. Currently, the UiO-MiNaLab staff comprises a full-time Lab Manager, a research infrastructure coordinator, 3 full-time Engineers, and a 25% of the full-time Administrative Officer.

To support laboratory users, running and maintaining of the cleanroom infrastructure and nearby characterization laboratories, we seek a cleanroom engineer for a permanent position. The engineer will report to the UiO-MiNaLab Lab Manager.

Work tasks

Depending on the candidate, the responsibilities may include:

- Maintenance of advanced scientific instrumentation, including vacuum systems.
- User training, both on processes/equipment, and on lab safety.
- Assisting users/researchers in process/equipment related troubleshooting.
- Support users to perform processing and characterization.
- Take part in the procurement of new equipment - testing, specification and qualification.
- Administrative tasks connected to MiNaLab-operation.

The position will be an integral part in the ongoing research and education through support of the infrastructure users together with a team of two senior engineers and scientific staff. There will be daily contact with both students and researchers; therefore, the personal suitability to cooperate and communicate, especially with students, is essential. The accumulated knowledge obtained in this position will be shared with colleagues, cleanroom users and our international network, e.g., as part of the Nordic Nanolab Expert Network. This network also provides a very good opportunity to interact and learn from other highly experienced cleanroom engineers working within the Nordic countries.

Qualification requirements

- The Head engineer title requires minimum a **Bachelor's Degree** in Physics, Chemistry, Materials Science, Nanotechnology, Electrical or Chemical engineering, or similar. Work experience can compensate for formal qualifications.
- The Senior engineer title requires minimum a **Master's Degree** in Physics, Chemistry, Materials Science, Nanotechnology, Electrical or Chemical engineering, or similar. Work experience can compensate for formal qualifications.

The successful candidate must have:

- Training in/documented background from maintenance of advanced instrumentation.
- Excellent communication skills, both oral and written, in English. Fluent knowledge of one of the Scandinavian languages can be an advantage due to close interaction with students at both bachelor and master level.
- Personal skills: Outgoing, service minded, safety-oriented and good cooperative skills. Weight will be put on personal suitability, including curiosity to learn new things.
- Ability to work in a structured, independent, documented and solution-oriented manner.

Desirable qualities:

- Background from an internationally leading cleanroom infrastructure will be highly beneficial.
- Experience with maintenance of vacuum systems.
- Experience in processing/characterization of materials with advanced instrumentation, such as those mentioned in the job description.
- Programming skills, e.g., by LabView or Raspberry Pi.

We offer

- Salary NOK 474 500 - 597 000/ 516 400 - 643 000 per annum depending on qualifications in position as Head engineer / Senior engineer (position code 1087/1181)
- Attractive [welfare benefits](#) and a generous pension agreement
- Professionally stimulating working environment
- Career development programs
- Oslo's family-friendly surroundings with their rich opportunities for culture and outdoor activities

We furthermore offer a vibrant international academic environment that enables for scientific publications and patents, presentations towards industry, start-up companies and other research fields within UiO, and popular-science publications in the media and social media platforms.

How to apply

The application must include:

- Cover letter (statement of motivation)
- CV (summarizing education, positions and other qualifying activity)
- Copies of educational certificates, academic transcript of records and letters of recommendation
- Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number)

Foreign applicants are required to attach an explanation of their University's grading system. Please remember that all documents should be in English or a Scandinavian language. Applications with documents missing will not be considered further. Original documentation may be requested.

Evaluation:

An expert committee will evaluate the applications. Information and materials that should be considered by the committee must be submitted within the deadline. Applicants will normally be called in for interview.

Formal regulations

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

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.

In accordance with the University of Oslo's equal opportunities policy, we invite applications from all interested individuals regardless of gender or ethnicity. The University of Oslo has a goal of recruiting more women in academic positions. Women are encouraged to apply.

Contact information

For questions please contact either Eduard Monakhov, edouard.monakhov@fys.uio.no or Vegard Skiftestad Olsen, v.s.olsen@smn.uio.no.

For technical questions regarding the recruitment system, please contact HR Adviser Elin Thoresen, e-mail: elin.thoresen@mn.uio.no, phone +47 22 85 71 96.

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.

The research at the **Department of Physics** covers a broad range of subfields within physics and technology: From space research to medical physics. A good proportion of the research is interdisciplinary, and conducted in close cooperation with collaborators in Norway and abroad.

Education and teaching are other essential activities. We offer a broad range of courses, and the Department is involved in several study programmes at bachelor's and master's level. Some of the best lecturers in Norway are amongst our employees, and we are proud of our prizewinning teaching and learning environment. The Department has 200 employees, of which 50 are permanent scientific positions. On a yearly basis 20 students complete their Ph.D. and 50 finish their M.Sc. degree.

Tilleggsinformasjon

Arbeidssted:

Postboks 1029 Blindern 0315 Oslo (Oslo Kommune)