



PhD Research Fellowship in Soft Matter and Interface Science

Job description

The fellowship is for a period of 3 years. Starting date: as soon as possible. No one can be appointed for more than one fixed-term period at the same institution.

The project is aimed at building cell-like compartments which can respond to pre-determined physical and chemical cues in the environment such as chemoattractants, heat or magnetic fields. The purpose is to develop a proof of concept which can in the future be assembled and programmed to track and deactivate hazards such as pathogenic microorganisms, migrating cancerous cells, plastics micro-particles, or heavy metal sediments. The experiments involve the manipulation and characterization of biological membranes. Major parts of the project contain fabrication of liposomes and 2D lipid films; design, fabrication and characterization of engineered surfaces, micromanipulation of surface-adhered bio-objects using glass capillaries or microfluidic chips and the observation of the responses mainly by optical or surface microscopy.

Qualification requirements

- By the start date of the PhD position, the candidate must hold a master's degree or equivalent (or must have handed in the master's thesis) in chemistry, materials science, physics or biology (required)
- Experience with biological samples/cell culturing (preferred)
- Practical knowledge of microfabrication procedures/clean room experience (preferred)
- Working knowledge of image analysis (Matlab, Python or similar) Preferably: successfully completed programming education during undergraduate studies (preferred)
- Practical knowledge of light and surface microscopy (preferred)
- Advanced level English in reading, writing and speaking (required)

[Gözen group](#) is both affiliated with the NCMM at the Faculty of Medicine and the Department of Chemistry at the Faculty of Mathematics and Natural Sciences. The candidate is expected to enroll in the PhD program at the Faculty of Mathematics and Natural Sciences, which has a strategic ambition of being a leading research faculty. 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.

This position is funded by UiO:Life Science and the purpose of the fellowship is research training, leading to the successful completion of a PhD degree.

The fellowship requires admission to the [PhD programme at the Faculty of Mathematics and Natural Sciences](#). The application to the PhD programme must be submitted to the department no later than two months after taking up the position.

[For more information about Doctoral degree and PhD](#)

We offer

- salary NOK 449 400 - 505 800 per annum depending on qualifications in a position as PhD Research fellow, (position code 1017)
- 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 stating the motivation for applying for this position
- 1-2 page essay (including figures and references) summarizing one project idea of candidate's own, in the context of the announced project description: purpose, methods to be used, expected outcome
- CV (summarizing education, positions and academic work - scientific publications)
- Copies of educational certificates, transcript of records and letters of recommendation
- [Documentation of English proficiency](#)
- List of publications and academic work 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)

[Further information about the group.](#)

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.

When evaluating the application, emphasis will be given to the essay and the applicant's academic and personal prerequisites to carry out the project. Applicants may be called in for an interview.

Formal regulations

Please see the [guidelines and regulations](#) for appointments to Research Fellowships at the University of Oslo.

No one can be appointed for more than one PhD Research Fellowship period at the University of Oslo.

According to the Norwegian Freedom and 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 appointment may be shortened/given a more limited scope within the framework of the applicable guidelines on account of any previous employment in academic positions.

The University of Oslo has an [agreement](#) for all employees, aiming to secure rights to research results etc.

Contact information

Regarding the scientific inquiries please contact: Dr. Irep Gözen, phone: +4722840596, e-mail: irep@uio.no

The inquiries regarding the technical aspects of the application can be directed to Ragni Indahl, e-mail: ragni.indahl@ncmm.uio.no or Nina Modahl, e-mail: ninam@ncmm.uio.no

About the University of Oslo

The University of Oslo is Norway's oldest and highest ranked educational and research institution, with 28 000 students and 7000 employees. With its broad range of academic disciplines and internationally recognised research communities, UiO is an important contributor to society.

Centre for Molecular Medicine Norway (NCMM) was established in 2008 and is the Norwegian node in the Nordic EMBL Partnership for Molecular Medicine. NCMM is a joint venture between the University of Oslo, Health Region South-East and the Research Council of Norway. From 2017 NCMM is merged with the Biotechnology Centre of Oslo and now has altogether 11 research groups. The overall objective of NCMM is to conduct cutting edge research in molecular medicine and biotechnology as well as facilitate translation of discoveries in basic medical research into clinical practice.

Jobbnorge-ID: 169304, Søknadsfrist: Søknadsfristen er gått ut