PhD Research Fellowship in Extracellular Vesicles and Immunotherapy

Job description

A three-year full time PhD Research Fellowship in Extracellular Vesicles and Immunotherapy (position code 1017) is available at the Department of Pharmacology, Institute of Clinical Medicine, The Faculty of Medicine, University of Oslo (UiO).

More about the position

The candidate will work on a project to develop extracellular vesicles from NK cells as nanovehicles for cancer therapy. The project is funded by the Norwegian Research Council’s NANO2021 program. NK cells are increasingly exploited in immunotherapeutic therapies against cancers, due to their broad recognition of stress-induced self proteins on the surface of cancer cells. As NK cells have poor ability to infiltrate solid tumors, we will exploit the possibility to utilize NK-cell derived exosomes as a therapeutic product, with the hypothesis that NK-exosomes loaded with cytolytic cargo can infiltrate solid tumors. The work will involve design and production of an optimal NK-exosomal product, and testing using in vitro and in vivo cancer models. The work includes in vitro culture of primary human cells and cell lines, molecular biology, diverse immunological assays advanced flow cytometry, tumor spheroid models, and in vivo experimentation. The candidate is expected to collaborate with national/international partners and be prepared to travel.

The candidate will work in the research group of professor Marit Inngjerdingen at Department of Pharmacology, Institute of Clinical Medicine. The Inngjerdingen research group is focusing on innate lymphocytes and how they may control inflammation and cancer.

The applicant must, in collaboration with her/his supervisor, within 3 months after employment, have worked out a complete project description to be attached to the application for admission to the doctoral program.

The research fellow must take part in the Faculty of Medicine approved PhD program and is expected to complete the project within the set fellowship period. The main purpose of the fellowship is research training leading to the successful completion of a PhD degree.

Qualification requirements

- Master degree-level education or equivalent within the fields of immunology, cell biology, or molecular biology.
- Experience with cell culture, flow cytometry, and/or immunological techniques is an advantage.
- Candidates must be highly motivated and structured, with excellent laboratory skills and good collaborative qualities.
- Candidates must have fluent oral and written communication skills in English.

We offer

- An exciting research environment with opportunities for academic development.
- Pay Grade 54-59, from NOK 479 600 to NOK 523 200, 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:

- Application letter describing the applicant’s qualifications and motivation for the position
- CV (summarizing education, positions and academic work)
- A complete list of publications and/or the Master thesis abstract
- Copies of educational certificates, transcript of records
- Letters of recommendation or 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 links “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).

Applicants who are invited for an interview are asked to provide educational certificates, diploma or transcript of records.

Formal regulations

Utlysningstekst (186305).pdf - Generert fra Jobbnorge.no den 6. mai 2020 kl. 05:16
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 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 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.

The position is available from July 1st 2020.

**Contact information**

- Professor Marit Inngjerdingen, e-mail: mariti@medisin.uio.no
- HR Adviser Karoline Berg-Eriksen (questions regarding the online application form), e-mail: Karoline.berg-eriksen@medisin.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.

The Institute of Clinical Medicine (Klinmed) is one of three institutes under the Faculty. Klinmed is responsible for the Faculty's educational and research activities at Oslo University Hospital and Akershus University Hospital. With about 800 employees spread over approximately 425 man-labour years, Klinmed is the university's largest institute. Our activities follow the clinical activity at the hospitals and are spread across a number of geographical areas.