PhD-research Fellowship in Experimental cardiology

Job description

Applications are invited for a 3-4 year PhD-research Fellowship as PhD Candidate in Experimental cardiology to be based at the Department for Molecular Medicine (Physiology), University of Oslo (UiO).

The Research fellowship is funded by UiO and will be linked to the “HeartTarget”-project, where the overall aim is to obtain system based understanding of heart failure with preserved ejection fraction (HFpEF), and use this knowledge to develop targeted therapies for this disease. Overall, the project will combine state-of-the-art animal models of heart disease with multi-omics approaches such as transcriptomics, epigenomics and proteomics, in combination with machine learning assisted bioinformatics analyses, and eventually test novel therapies deduced from these analyses in HFpEF models. The Research Fellow hired will do a combination of preclinical work in HFpEF-models, obtain multi-omics datasets and early bioinformatics analyses in close collaboration with other members of the group, and in active collaboration with leading scientists at national and international level. Parts of the PhD thesis will be focused on method optimizations necessary for the project especially in preclinical models. Short research stays in collaborating labs is a possibility for the hired Research Fellow. [https://www.med.uio.no/imb/forskning/grupper/eksperimentell-kardiologi/](https://www.med.uio.no/imb/forskning/grupper/eksperimentell-kardiologi/)

More about the position

The fellowship period is up to 4 years, with 3 years devoted to research education. The position entails a compulsory work load of 25% that consists of teaching and supervision duties and research assistance. The fellowship period is devoted to carrying out a project entitled HeartTarget: Defining targeted treatment options for heart failure with preserved ejection fraction (HFpEF).

The research fellow must take part in the Faculty’s 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.

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. For more information, please see our web site: [https://www.med.uio.no/forskning/phd/](https://www.med.uio.no/forskning/phd/)

Qualification requirements

- A Master’s degree (120 ECTS) or an equivalent qualification in life sciences, bioinformatics or similar, minimum grade B (ECTS grading scale) or equivalent. The Master’s degree must include a thesis of at least 30 ECTS.
- Possibility to perform preclinical work at independent level required in the HeartTarget project, including FELASA approval or comparable qualifications
- Ability to perform bioinformatics analyses in the HeartTarget project
- Ability to perform bioinformatics analyses in the HeartTarget project, such as whole genome transcriptomics data (using Python or similar).

In addition, the following qualifications will be considered positively:

- Competence in preclinical cardiology, including standard phenotyping (such as cardiac imaging and hemodynamic evaluation), surgical procedures, biopsies and blood sampling.
- Experience with method optimization relevant to the HeartTarget project
- Programming and handling of big data relevant to the HeartTarget project.
- Experience with work with machine learning will be considered positively
- Fluent oral and written communication in a Scandinavian language
- Teaching qualifications

Personal skills

- Highly motivated and accurate candidate
- Good problem solving skills
- Ability to work both independently and as integrated member of interdisciplinary teams
- Good communication skills including interpersonal and teaching abilities

We offer

- salary NOK 479 600 - 523 200 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 statement of motivation and research interests
- CV (summarizing education, positions and academic work)
- Copies of educational certificates (academic transcripts only)
- A complete list of publications and academic works
- List of reference persons: 2-3 references (name, relation to candidate, e-mail and phone 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).

When evaluating the application, emphasis will be given to the eventual “project description” 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 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.

Contact information

Associate Professor Jan Magnus Aronsen, Laboratory of Experimental Cardiology, Telephone: +47 99268241, E-mail: j.m.aronsen@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 Basic Medical Sciences overall objective is to promote basic medical knowledge in order to understand normal processes, provide insight into mechanisms that cause illness, and promote good health. The Institute is responsible for teaching in basic medical sciences for the programmes of professional study in medicine and the Master's programme in clinical nutrition. The Institute has more than 300 employees and is located in Domus Medica.

Jobbnorge-ID: 185147, Søknadsfrist: 30. april 2020