UiO : 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.

Postdoctoral research fellows in Systems Immunology

Two three-year Fellowship positions for a Postdoctoral research Fellow (SKO 1352) with background in either experimental or computational systems biology are available at the Department of Immunology (University of Oslo). The positions are available from January 2018 with a flexible start, ideally in the first quarter of 2018.

The positions are located in the research group of Associate Professor Victor Greiff, who will start his research group at the Department of Immunology, Institute of Clinical Medicine, in January 2018.

The announced positions are part of the University of Oslo's effort to further strengthen and develop the world-leading research community on human immunology and autoimmunity that has emerged at the Department of Immunology through the Centre for Immune regulation (CIR). (The University of Oslo's five world-leading research communities).

The focus of Dr. Greiff's research group will lie on the quantitative understanding of immune repertoire diversity and specificity using high-throughput immunogenomics and immunoproteomics coupled to high-dimensional and high-performance computational biology and machine learning. Recent publications by Dr. Greiff can be found on google scholar.
The main objective of appointment to the position of Postdoctoral Fellow is to qualify researchers for work in top academic positions within their respective area of study. No one can be appointed for more than one specified period as a Postdoctoral research Fellow at the same institution.

Job description

Position 1: Development of single-cell antibody immunogenomics and immunoproteomics methods to enable the high-throughput investigation of the diversity and specificity of antibody repertoires.

Position 2: Development of bioinformatics, computational biology and machine learning approaches to preprocess, analyze and interpret large-scale immune repertoire data with application to in silico immunoprofiling and discovery of novel immunodiagnostics and immunotherapeutics.

The specific aims of each topic are flexible and will be developed jointly by the postdoctoral researcher and the PI.
Both positions will be expected to supervise junior staff including PhD students, participate in collaborations as well as contribute to the writing of research proposals for research grants.

Requirements

For appointment as a Postdoctoral research Fellow, the applicant must hold PhD degree (or other corresponding education equivalent to a Norwegian doctoral degree).

For **Position 1**, a PhD in biology, immunology, molecular biology, experimental systems biology, or a related field is required. Broad knowledge and experience in immunological techniques including flow cytometry, ELISA, ELISPOT, functional assays, high-throughput sequencing. Experience in proteomics sample preparation technologies and a working knowledge of statistics and good computational skills (R, python) are considered strong advantages.

For **Position 2**, a PhD in a quantitative discipline is required (Bioinformatics, Computer Science, Statistics, Physics, Applied Mathematics, or a related field). Expertise in developing and maintaining code handling large amounts of transcriptomics and proteomics data as well as

expertise in high performance computing and machine learning is expected. Immunological knowledge is considered a strong advantage.

Please also refer to the regulations pertaining to the conditions of employment for Postdoctoral research Fellows:
http://www.uio.no/english/about/regulations/personnel/academic/regulations-employment-conditions-postdoc.html

The candidate must be fluent in written and spoken English.

We offer

A challenging and friendly working environment.
Salary based on salary level 57-65 (486 100 NOK-569 000 NOK, depending on qualifications).
Favorable pension arrangement.
Attractive welfare benefits.

Submissions
The application should include:

- **Application letter**, including a ½ page motivation statement and research interests.
- **CV** (summarizing education, positions, academic work-scientific publications and other relevant activity).
- Code samples (only Position 2).
- Copies of **educational certificates and grades**.
- **Letters of recommendation.**
- A list of **publications and academic work** that the applicant wishes to be considered by the evaluation committee (publications themselves should not be enclosed).
- Names and contact details of **2-3 referees** (name, relation to candidate, e-mail and telephone number).

The application with attachments is to be delivered in our electronic recruiting system Jobbnorge.
The application with the required attachments should preferably constitute as few files as possible, preferably 1-2 files.
In accordance with the University of Oslo´s equal opportunities policy, we invite applications from all interested individuals regardless of sex or ethnicity.

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.

Starting date: January-March 2018

Contact person:
Associate Professor Victor Greiff,
Maria Nesteby (only inquiries regarding the application), tlf: 47 22844686,

Jobbnorge ID: 141019, Deadline: Sunday, October 15, 2017