PhD Research Fellow in Bioinformatics

Job description

Position as PhD Research Fellow in bioinformatics available at Department of Biosciences, University of Oslo.

The fellowship will be for a period of 3 years, with no compulsory work or for a period of 4 years, with 25% compulsory work (teaching responsibilities at the department) contingent on the qualifications of the candidate and the teaching needs of the department.

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

Starting date no later than 01.10.2020.

A fully funded PhD Research fellowship is available at the Section for Genetics and Evolutionary Biology (EVOGENE), Department of Biosciences, University of Oslo. The position will also be associated with the newly established Centre for Bioinformatics and the UiO:Life Science initiative at the University of Oslo.

The successful candidate will work on development of computational models and tools to understand epigenetic genome regulation, with a particular focus on the three-dimensional (3D) organization of the genome. The work will be carried out in a cross-disciplinary environment in close collaboration with evolutionary biologists, biostatisticians, and other bioinformaticians. The candidate is expected to draw on the expertises both within the Department and the Centre for Bioinformatics.

The candidate will be supervised within the recently established research group of Associate Professor Jonas Paulsen. The emphasis of the group is to understand the evolutionary basis of 3D genome regulation. Read more about the newly established group here.

Qualification requirements

The Faculty of Mathematics and Natural Sciences has a strategic ambition to be among Europe’s leading communities for research, education and innovation. 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.

Qualification requirements:

- Master’s degree or equivalent in bioinformatics, computational biology, informatics, biostatistics or a related field
- Foreign completed degree (M.Sc.-level) corresponding to a minimum of four years in the Norwegian educational system
- Proficiency in programming (preferably Python and/or C++)
- Proficiency in UNIX/Linux and Bash/Shell scripting
- Knowledge of statistical data analysis and/or machine learning, including the use of R
- Excellent English written and verbal communication skills

The following qualifications will be considered desirable:

- Experience with the use of HPC systems
- Experience in software development, and in applying machine learning techniques
- Experience with (or interest in) analysis of genomics data sets, including data from high-throughput sequencing techniques
- Knowledge (or interest) in molecular/cellular biology and evolution

Candidates without a Master’s degree have until 30 June, 2020 to complete the final exam.

Grade requirements:

The norm is as follows:

- the average grade point for courses included in the Bachelor's degree must be C or better in the Norwegian educational system
- the average grade point for courses included in the Master’s degree must be B or better in the Norwegian educational system
- the Master’s thesis must have the grade B or better in the Norwegian educational system
- Fluent oral and written communication skills in English
- English requirements for applicants from outside of EU/EEA countries

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 see:

http://www.uio.no/english/research/phd/
http://www.mn.uio.no/english/research/phd/
**Personal skills**

We seek an outstanding, independent and highly motivated candidate with a strong interest in developing and applying computational models to understand biological systems.

**We offer**

- Salary NOK 479 600 - 523 200 per annum depending on qualifications and seniority as PhD Research Fellow (position code 1017)
- Attractive welfare benefits and a generous pension agreement
- Vibrant international academic environment
- Career development programmes
- Oslo’s family-friendly surroundings with 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 - scientific publications)
- Copies of the original Bachelor and Master’s degree diploma, transcripts 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)

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).

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.

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

The University of Oslo aims to achieve a balanced gender composition in the workforce and to recruit people with ethnic minority backgrounds.

**Contact information**

For further information please contact: Jonas Paulsen, phone: +47 228 59105, e-mail: jonas.paulsen@ibv.uio.no.

For technical questions regarding the recruitment system please contact: HR adviser Nina Holtan, phone +47 228 54424, e-mail: nina.holtan@mn.uio.no.

**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.

Department of Biosciences (IBV) is one of nine departments at the Faculty of Mathematics and Natural Sciences. Research in the department is organised in five sections covering topics within biochemistry, molecular biology, physiology, cell biology, genetics, aquatic biology, toxicology, ecology, and evolutionary biology. Education across these topics is offered for around 380 bachelor, 170 master, and 75 PhD students. With 52 permanent professors/associate professors, post-docs, researchers, technical, and administrative personnel, the Department has a total staff of 340 from more than 30 different countries. The Department aims to maintain high international standards within both research and teaching. The new bachelor program in bioscience is the first of its kind to include programming and computational modelling as core elements.