



Global challenges regarding energy and climate change, the environment, health, food safety, technology and renewable solutions, use and conservation of land and natural resources, and development of the bio-economy, requires greater effort. NMBU is well equipped to conduct further research in these fields. NMBU's expertise spans entire value chains and includes both basic and applied research.

On 1 January 2014, the Norwegian School of Veterinary Science and the University of Life Sciences merged and became -NMBU, the Norwegian University of Life Sciences. NMBU has 1700 employees and 5200 students, and is currently located on two campuses - Ås, about 30 km south of Oslo, and Adamstuen in Oslo. In 2020, the new research- and education-building for veterinary science will be completed and all of NMBU will then be located at Campus Ås.

Further information about NMBU is available on www.nmbu.no

PhD scholarship within Single-Cell Transcriptomics - Ref.no. 17/01977

The Department of Basic Sciences and Aquatic Medicine at the Norwegian University of Life Sciences (NMBU) has a vacant 3 year PhD-position within the field of single-cell transcriptomics in the research group of Prof. Finn-Arne Weltzien.

The Department of Basic Sciences and Aquatic Medicine focuses on the health, well-being, diseases and pathogenesis in fish and domestic animals. Our department is comprised of five research sections, where Section for Biochemistry and Physiology is headed by Prof. Weltzien. The section has approximately 25 employees, with an advanced international profile. We are centrally located in Oslo at Campus Adamstuen.

Research project

The Weltzien group focuses on regulation of reproduction in fish, with a particular emphasis on the pituitary. The group currently has 10 members working in molecular physiology using methodologies such as bioinformatics, electrophysiology, imaging and in situ hybridization, molecular biology, and behaviour. The project 'Single cell transcriptomics in pituitary of medaka' is funded by the Norwegian University of Life Sciences for a period of 3 years. The PhD project involves characterization and functional analyses of the different (endocrine) cell types present in the pituitary of our main model fish, the Japanese medaka. This project is complementary to other related projects in the group, and the PhD candidate will work closely with two postdocs in the research group that are presently being hired (REF 17/01983). The PhD candidate and the two postdocs will all work on similar topics and can thus share specific tasks among themselves according to their expertise.

Main tasks

- Take part in development of methodology for single-cell transcriptomics
- Transcriptional characterization of individual pituitary cells in medaka, both endocrine and non-endocrine cells
- Analysis of functional relationship between pituitary endocrine cell types

The successful candidate is expected to enter a plan for the progress of the work towards a PhD degree during the first months of the appointment, with a view to completing a doctorate within the PhD scholarship period.

Academic qualifications

We seek a highly motivated candidate, preferably with a background in bioinformatics or biostatistics, and with knowledge in either cell biology or molecular biology, or related fields. The successful applicant must meet the conditions defined for admission to a PhD programme at NMBU. The applicant must have an academically relevant education corresponding to a five-year Norwegian degree programme, where 120 credits are at master's degree level. The applicant must have a documented strong academic background from previous studies, and be able to document proficiency in both written and oral English. For more detailed information on the admission criteria please see the [PhD Regulations](#) and the relevant [PhD programme description](#).

The applicant must document expertise and interest in the research subject.

Required Academic qualifications

- Master degree in molecular- or cell biology, bioinformatics, biostatistics or related field with high academic qualifications
- Experience with basic programming and working on the command line

Desired Academic qualifications

- Advantage with experience in animal (fish) experiments/physiology

Personal skills

Required personal skills

- The successful candidate must have a strong motivation to produce high-quality science
- Be able to work independently and in a structured way, and take ownership of his or her PhD-project
- Be able to collaborate within the research group and beyond
- Document excellent communication skills in English (oral and in writing)

Desired personal skills

- Flexible, social, and open-minded

NMBU offers:

- An optimistic academic institution with focus on professional development, dissemination and competence
- An interdisciplinary and inclusive environment that provides exciting research- and development opportunities
- International profile
- Daily contact with inspiring students and skilled colleagues
- Various welfare schemes
- NMBU Campus Adamstuen is centrally located in Oslo

Remuneration

The salary for PhD-scholarship start at wage grade 50 (equivalent to annual salary NOK 436 500) on the Norwegian Government salary scale upon employment and follow ordinary meriting regulations.

For especially well-qualified applicants, alternative salary placement could be considered.

Employment is conducted according to national guidelines for University and Technical College PhD scholars.

Further information

For further information, please contact Prof. Finn-Arne Weltzien

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Application

To apply online for this vacancy, please click on the '**Apply for this job**' button above. This will route you to the University's Web Recruitment System, where you will need to register an account (if you have not already) and log in before completing the online application form.

Application deadline: 06.06.2017

Applications should include (electronically) a letter of intent, curriculum vitae, full publication list, copies of degree certificates and transcripts of academic records (all certified), and a list of two persons who may act as references (with phone numbers and e-mail addresses).

A compulsory contribution of 2 % is made to the Norwegian Public Service Pension Fund. A good working environment is characterized by diversity. We encourage qualified candidates to apply, irrespective of gender, physical ability or cultural background. The workplace will if necessary be facilitated for persons with disabilities.

According to the Freedom of Information Act § 25 the list of applicants for this position may be made public irrespective of whether the applicant has requested that his/her name be withheld.

Jobbnorge-ID: 138392, Søknadsfrist: Avsluttet