



Jobbnorge-ID: 243340
Søknadsfrist: 23.04.2023
Nettside: <http://www.uio.no/>
Omfang: Heiltid
Varighet: Engasjement

PhD Research Fellow in fungal biology/diversity

About the position

Position as PhD Research Fellow in fungal biology/diversity available at Department of Biosciences.

No one can be appointed for more than one PhD Research Fellowship period at the University of Oslo. Starting date no later than October 1, 2023.

The fellowship period is 3.5 years, of which 0.5 years will be compulsory work (mainly teaching).

Job description:

Arbuscular mycorrhizal (AM) fungi, belonging to the fungal sub-phylum Glomeromycotina, are tremendously important multicellular organisms in terrestrial ecosystems, as about 75% of all land plants rely on this symbiosis. In spite of this, we have no overview of the diversity and distribution of AM fungi in Norway. This is mainly because AM fungi do not produce aboveground structures and, hence, it is a challenging task to determine AM fungi through microscopy of spore morphology. Moreover, the commonly used DNA-barcoding region for fungi (ITS), is not very suitable for AM fungi. However, long-read DNA sequencing methods coupled to phylogenetic inferences now provide the opportunity to obtain more reliable information about the occurrence and distribution of AM fungi, as well as better species delimitations. By using long-read DNA-sequencing of eDNA from a high number of soil and plant root samples, in combination with microscopy and possible, pot culturing, the diversity and distribution of this neglected, but ecologically important fungal group, will be explored.

Video MN

Knowledge development in a changing world - Science and technology towards 2030

Video: <https://www.youtube.com/watch?v=t4wvWQEHDEs>

More about the position

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/>

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.

- Master's degree or equivalent in one of the fields: evolutionary biology, systematics, mycology, microbiology, environmental microbiology or microbial ecology
- Foreign completed degree (M.Sc.-level) corresponding to a minimum of four years in the Norwegian educational system
- Knowledge and experience in DNA wet-lab work (e.g. DNA extraction, PCR and sequencing), bioinformatics analyses (preferably of high throughput sequence data), basic statistics, and basic knowledge in fungal biology and fungal diversity
- Fluent oral and written communication skills in English and preferably in a Scandinavian language

Candidates without a Master's degree have until 30 June, 2023 to complete the final exam.

The following qualifications are desired:

- Experience in doing fieldwork, high-throughput sequencing (both library preparation and bioinformatics), phylogenetics, solid experience with running statistics in R, and scientific writing. Deeper knowledge in fungal biology and diversity will be considered positively.

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
- English requirements for applicants from outside of EU/ EEA countries and exemptions from the requirements:

<https://www.mn.uio.no/english/research/phd/regulations/regulations.html#toc8>

Personal skills

The candidate should be highly motivated for the position, be able to work within a team and have well-developed collaborative skills. At the same time, the candidate should be able to work independently when needed.

Personal suitability for the position will be emphasized

We offer

- Salary NOK 501 200 - 544 400 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 their rich opportunities for culture and outdoor activities

How to apply

The application must include:

- Cover letter, including minimum a half page 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 and transcripts of records
- Documentation of English proficiency if applicable
- List of publications and academic work that the applicant wishes to be considered by the evaluation committee
- Names and contact details of 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.

Interviews with the best qualified candidates will be arranged.

Formal regulations

Please see the [guidelines](#) and [regulations](#) for appointments to Research Fellowships at the University of Oslo.

According to the Norwegian Freedom and 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.

UiO has an [agreement for all employees](#), aiming to secure rights to research results a.o.

Inclusion and diversity are a strength. The University of Oslo has a personnel policy objective of achieving a balanced gender composition. Furthermore, we want employees with diverse professional expertise, life experience and perspectives.

If there are qualified applicants with disabilities, employment gaps or immigrant background, we will invite at least one applicant from each of these categories to an interview.

Contact information

For further information please contact: Professor Håvard Kauserud, phone: +47 22854832, e-mail: haavarka@ibv.uio.no or Dr. Ella Thoen, e-mail: ella.thoen@ibv.uio.no

For questions regarding Jobbnorge, please contact HR Adviser Nina Holtan, phone: +47 22854424, 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 350 bachelor, 250 master, and 120 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.

Tilleggsinformasjon

Arbeidsstad:

Blindern 0313 Oslo (Oslo Kommune)