

## Phd student, soil biology

The Department of Soil & Environment conducts research, environmental monitoring & assessment and higher education for sustainable soil management in agriculture, forestry and urban environments. Outcomes are aligned to and contribute towards national and international strategies on food security, national environmental objectives and climate reporting as well as the 2030 Agenda for Sustainable Development. The majority of the department's activities and employees are located in the Soil-Water-Environment building on the SLU Ultuna campus in Uppsala, there is also a research group and a field research station situated in Skara.

### Research about mycorrhizal fungi and their potential role in decomposition and nutrient cycling in Swedish forest soils

#### Description:

The position concerns a research project about mycorrhizal fungi and their potential role in decomposition and nutrient cycling in Swedish forest soils. The fungal genus *Cortinarius* (Webcaps) are in focus and will be studied from different perspectives. The project is largely basic research on the functioning of soil fungi in forest ecosystems, but has important implications for forestry, nature conservation and climate related questions. The work includes a broad spectrum of methodological approaches, with extensive molecular laboratory work and biotech components, phylogenetic and taxonomic analyses of fungi and large-scale statistical data analyses. Scientific writing is an important part with the ambition to publish in internationally leading subject journals.

#### Qualifications:

We look for a person with a masters' exam in Biology, Biotechnology or equivalent. Experience in laboratory molecular biology is required. Competence in Molecular genetics, Microbiology, Ecology, Bioinformatics and Statistics is desired. Good computer skills are also needed. We look for You, who have a strong research interest, wish to work in the field of Molecular Ecology and would like to be part of an internationally leading research team.

Ability to communicate excellently in written and spoken English is essential.

#### Place of work:

Uppsala, Sweden

#### Forms for funding or employment:

Employment 4 years

#### Starting date:

September 2021 or according to agreement

#### Application:

We welcome your application no later than July 31 2021, use the button below.

A person has basic eligibility for third cycle education if he or she has taken a second cycle qualification or has completed course requirements of at least 240 higher education credits, including at least 60 higher education credits at second cycle education. Upper secondary school grades equivalent to English B/English 6 are a basic requirement.

Selection among applicants meeting the requirements is made with reference to written application including curriculum vitae, copies of degrees and transcripts of academic records, one copy of the dissertation for masters or undergraduate degree, a list of at least two references familiar with the applicant's qualifications, certified knowledge of the English language and an interview.

Please observe that applicant/s chosen to participate in an interview shall hand in certified true copies of certificates, diplomas and transcripts from previous studies at an internationally recognized higher education institution (university or university college) and transcripts in connection to the interview. If the applicant is a foreign citizen we require a certified copy of the page in your passport with your personal data and photography.

Read about the PhD education at SLU at [www.slu.se/en/education/programmes-courses/doctoral-studies/](http://www.slu.se/en/education/programmes-courses/doctoral-studies/)

#### Academic union representatives:

<https://internt.slu.se/en/my-employment/employee-associations/kontaktpersoner-vid-rekrytering/>

**The Swedish University of Agricultural Sciences (SLU)** develops the understanding and sustainable use and management of biological natural resources. The university ranks well internationally within its subject areas. SLU is a research-intensive university that also offers unique degree programmes in for example rural development and natural resource management, environmental economics, animal science and landscape architecture. SLU has just over 3,000 employees, 5,000 students and a turnover of SEK 3 billion. The university has invested heavily in a modern, attractive environment on its campuses in Alnarp, Umeå and Uppsala. [www.slu.se](http://www.slu.se) SLU is an equal opportunity employer.

**Kontaktperson:**

**Björn Lindahl**

Professor

[bjorn.lindahl@slu.se](mailto:bjorn.lindahl@slu.se)

018-672720