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PhD student in limnology with focus on the climate footprint of macrophytes

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A PhD student position in Limnology, with focus on the ecology and climate footprint of macrophytes, is available at the Department of Ecology and Genetics, Limnology.

The Department of Ecology and Genetics is an international environment with staff and students from all over the world. Our research spans from evolutionary ecology and genetics to studies of ecosystems. For more information, see www.ieg.uu.se.

[Read more about our benefits and what it is like to work at Uppsala University](#)

The Limnology Program at the Department of Ecology and Genetics (www.ieg.uu.se/limnology) is, together with its field station at the lake Erken (www.ieg.uu.se/erkenlaboratoriet), an internationally renowned environment for research, education and outreach on the ecology of inland waters.

Project description

Most rivers are highly degraded ecosystems, but there is a large movement to restore them. The restoration of streams and rivers includes the establishment of wetlands, and the removal of dams, which benefits biodiversity and water quality. Both restoration practices entail the expansion of aquatic plants (macrophytes), which can act as strong greenhouse gas sources, but which also sequester carbon and thus act as carbon sinks. The overall climate footprint of macrophytes is at present insufficiently understood. The CLIMIPHY project will investigate the greenhouse gas emission as well as carbon sequestration of different species and communities of macrophytes, in order to enable river restoration practitioners to design plantation schemes that maximize the intended benefits for biodiversity and water quality at minimal climate footprint.

Duties

Your duties include research and coursework within the project's subject area. Research will comprise controlled experiments as well as field studies of the greenhouse gas emission and carbon sequestration of different species and communities of macrophytes, in collaboration with the other members of the project team. The work will also include interactions with stakeholders and practitioners in river restoration. The PhD education in Sweden lasts 4 years, with corresponding to 3 years for research, and 1 year of studying relevant courses. In addition, we encourage PhD candidates to teach on relevant undergraduate courses, which adds additional time to their contracts.

Qualifications required

To meet the entry requirements for doctoral studies, you must

- hold a Master's (second-cycle) degree in Limnology, Ecology, Biogeochemistry, Environmental Science, Environmental Engineering or another relevant field, or
- have completed at least 240 credits in higher education with at least 60 credits at Master's level including an independent project worth at least 15 credits, or
- have acquired substantially equivalent knowledge in some other way.

Other qualifications and characteristics required for the position are:

- Experience and knowledge within one or several of the following fields: limnology, plant ecology, biogeochemistry.
- Driving license for car (EU class B)

We attach great importance to personal qualities such as ability to collaborate within a team, organizational skills, and independence.

Candidates must be able to express themselves very well in English, both orally and in writing.

Qualifications desired: Experience in statistics and programming (e.g. using the R software), as well as in geographical information systems (GIS) is meriting. Experience in conducting laboratory experiments and field work is meriting.

Rules governing PhD students are set out in the Higher Education Ordinance chapter 5, §§ 1-7 and in [Uppsala University's rules and guidelines](#).

Application

The application should be written in English and include:

- 1) a letter of intent describing yourself, your research interests and motivation of why you want to do a PhD, and why you are suitable for the position (max 1 page),
- 2) your CV,
- 3) a short description of your education,
- 4) a copy of your master degree, your course grades and a copy of your master thesis,
- 5) the names and contact information to at least two reference persons (e-mail address and phone no.).

About the employment: The employment is a temporary position according to the Higher Education Ordinance chapter 5 § 7 and covers four years of full-time studies. The salary is set based on a salary scale with a starting salary of SEK 29,000/month (salary revision 2022) and will be adjusted annually. Starting date 1 February 2024 or as agreed. Placement: Uppsala.

For further information about the position please contact: Dr. Charlotte Grasset, charlotte.grasset@ebc.uu.se +46 18 471 2819.

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You are welcome to submit your application no later than 23 October 2023. UFV-PA 2023/3410.

Are you considering moving to Sweden to work at Uppsala University? [Find out more about what it's like to work and live in Sweden.](#)

Uppsala University is a broad research university with a strong international position. The ultimate goal is to conduct education and research of the highest quality and relevance to make a difference in society. Our most important asset is all of our 7,500 employees and 54,000 students who, with curiosity and commitment, make Uppsala University one of Sweden's most exciting workplaces.

Read more about our benefits and what it is like to work at Uppsala University
<https://uu.se/om-uu/jobba-hos-oss/>

Please do not send offers of recruitment or advertising services.

Submit your application through Uppsala University's recruitment system.

Placement: Department of Ecology and Genetics

Type of employment: Full time , Temporary position

Pay: Fixed salary

Number of positions: 1

Working hours: 100%

Town: Uppsala

County: Uppsala län

Country: Sweden

Union representative: ST/TCO tco@fackorg.uu.se

Seko Universitetsklubben seko@uadm.uu.se

Saco-rådet saco@uadm.uu.se

Number of reference: UFV-PA 2023/3410

Last application date: 2023-10-23

[Apply for position](#)