



## PhD position in Evolutionary Genomics

As one of the largest employers in Tyrol, the University of Innsbruck offers a diverse and exciting field of activity for employees with various educational and occupational backgrounds. The University of Innsbruck welcomes personnel diversity and is committed to the principle of equal opportunity.

The Molecular Ecology Group at the Institute of Ecology is searching for a

### PhD candidate

(employment for the period of 48 months; position to be filled at the earliest possible date)

#### General information:

We are looking for a PhD candidate interested in studying the genomic consequences of human-facilitated gene flow in a *Daphnia* species complex. The position is part of the INTERREG SEEWANDEL research initiative, which includes seven institutions in Switzerland, Germany, and Austria and seeks to investigate the effects of environmental change on biodiversity and resilience in Lake Constance and other large peri-Alpine lakes.

The successful candidate will be based at the [Molecular Ecology Group](#) at the Institute of Ecology of the University of Innsbruck, which is highly interdisciplinary and internationally very well connected.

#### Project:

Lake-eutrophication during the last century has facilitated secondary contact between ecologically important *Daphnia* species in peri-Alpine lakes. The extent of secondary contact is depending on the degree of trophic change. The successful candidate will use recent population samples and *Daphnia* resting eggs from sediment cores to quantify and characterize gene flow between species and study the consequences of the secondary contact on species integrity and functional traits. The project comprises sedimentological work (collecting sediment cores), molecular lab work (DNA extractions and library preparation), and extensive bioinformatics analyses as well as some experimental work with *Daphnia*. The study will focus on three large peri-Alpine lakes with different trophic histories – Lake Constance, Lake Walen, and Lake Zurich – and will include close collaborations with the members of the SEEWANDEL initiative. Part of the experimental work will be conducted at Eawag (Switzerland).

#### Required qualifications:

Candidates should be highly motivated and have a strong interest in evolutionary biology, ecology, and population genetics. The planned work will require a high degree of independence and the ability to work in a team. Experience in (i) molecular lab and field work, (ii) analyses of whole-genome re-sequencing data, (iii) and basic programming

skills (e.g. R, Python, bash) will be an advantage. The project includes several collaborators and international groups in Switzerland, Germany, and the UK, and therefore good English skills are essential.

### Salary:

The annual gross salary is EURO 28,994 for a 48-months employment. The contract includes health insurance and 5 weeks of holidays per year. Furthermore, the university has numerous attractive offers (<https://www.uibk.ac.at/universitaet/zusatzleistungen/>).

### Application:

Please send a single pdf file including a letter of motivation, curriculum vitae, a complete list of publications and contact details of two references to [Markus.Moest@uibk.ac.at](mailto:Markus.Moest@uibk.ac.at). Applications must be written in English and submitted until **16 February 2018**.



The University of Innsbruck is committed to raising the quota of female employees and therefore particularly welcomes applications from qualified women. This applies particularly to managerial as well scientific positions. In the case of female under-representation, women with equal qualifications will be given priority. In accordance with Austrian disability laws, qualified people with special requirements are expressly encouraged to apply for jobs.

### The research institution and its environment:

The University of Innsbruck has a long-standing and internationally renowned tradition in life sciences and offers a vibrant research atmosphere. It has ca. 27,000 students and 4,000 staff members. Innsbruck is situated in the Alps, very close to Switzerland, Germany, and Italy. Excellent train connections and airports in Innsbruck and close by in Munich and Salzburg ensure good connections and easy travelling. The scenery and possibilities for outdoor recreation are fantastic.

### Questions?

For more information on the position, the project, the group, or the University, please do not hesitate to contact Markus Möst or Birgit Schlick-Steiner directly:

<p>MÖST Markus, PhD University of Innsbruck Institute of Ecology Research Group: Molecular Ecology Technikerstrasse 25 (Room 517) A-6020 Innsbruck T: +43 (0)512 507-51771 F: +43 (0)512 507-51799 E-mail: <a href="mailto:Markus.Moest@uibk.ac.at">Markus.Moest@uibk.ac.at</a></p>	<p>SCHLICK-STEINER Birgit Dr., Univ.-Prof. University of Innsbruck Institute of Ecology Deputy Head of the Institute Head of the Research Group: Molecular Ecology Technikerstrasse 25 (Room 516) A-6020 Innsbruck T +43 (0)512 507-51750 F +43 (0)512 507-51799 E-mail: <a href="mailto:Birgit.Schlick-Steiner@uibk.ac.at">Birgit.Schlick-Steiner@uibk.ac.at</a></p>
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