

# PhD position at the Institute of Botany, University of Innsbruck

## Influence of extreme drought on the hydraulics of trees

- ❖ How does extreme drought affect different tree species?
- ❖ Where are the weak points within the tree?
- ❖ Does repeated drought stress lead to acclimation or weakening of trees?
- ❖ How do adult and young trees differ?

These and other research questions are to be answered in a current FWF project. The PhD position offers the opportunity to work on a large-scale field experiment (KRoof) in Freising, but the majority of the measurements will be carried out in and around Innsbruck. Both classical hydraulic methods (e.g. flow measurements, anatomical measurements) and modern techniques (e.g. ultrasound analysis, cavicams, MicroCT) are used. Previous knowledge of these techniques is not a prerequisite. The position should be taken up in the course of spring 2025 (possibly summer 2025).

### What we offer

- A temporary (3 years) PhD position at the Institute of Botany at FWF conditions (currently: €2,684 gross for 30 hours)
- Collaboration in a committed, internationally well-connected team
- Supervision within the team
- Learning numerous modern techniques

### What we expect

- Master's degree in biology or a related subject
- Driving licence
- Commitment and reliability
- Independent, structured and reflective working style
- Willingness to familiarise yourself with new techniques
- Motivation to publish the results in high-ranking publications

### Application

Please send your application documents (letter of motivation, CV) by email (barbara.beikircher@uibk.ac.at) by March, 7<sup>th</sup> 2025.

### Further links:

Project leader: <https://www.uibk.ac.at/de/botany/forschung/mitarbeiterinnen/barbara-beikircher/>

Website field experiment: <https://www.waldwachstum.wzw.tum.de/forschung/projekte/kranzbergroof-kroof/>

Information on the PhD programme in Biology: <https://www.uibk.ac.at/de/studien/phd-biologie/2009w/>