



The Research Unit of Higher Geodesy of the Department of Geodesy and GeoInformation at TU Wien is seeking a motivated project assistant (any gender) to work as a

Researcher in GNSS-Reflectometry Vegetation Mapping (Pre-doc / Post-doc) for a 30h/week employment.

Research objectives:

The successful candidate will investigate how GNSS-Reflectometry (GNSS-R) data, particularly from the CYGNSS mission, can complement and enhance Sentinel-2–based optical Leaf Area Index (LAI) retrieval. The project will also evaluate the potential of the HydroGNSS mission, including its dual-polarization capability and the use of Galileo signals for vegetation mapping.

Key responsibilities:

- Develop and implement AI-based methods for LAI retrieval using GNSS-R and auxiliary data
- Perform comparative analyses between optical, GNSS-R, and fused data products
- Maintain an open-access Python toolbox for GNSS-R vegetation monitoring
- Publish research results in peer-reviewed journals and present findings at scientific conferences
- Contribute to the organization of a scientific workshop for Austrian and European stakeholders

Qualifications:

- PhD (for Post-doc) or MSc/Master's degree (for Pre-doc) in Geodesy, Remote Sensing, Mathematics, Data Science, Environmental Sciences, or a related field
- Experience in research with satellite data (e.g., GNSS-R or similar EO datasets)
- Strong programming skills in Python or MATLAB and experience with scientific data processing
- Organizational and analytical skills, as well as a structured approach to work
- Interest and joy in research and working with students
- Team spirit and problem-solving skills
- Experience in project management is advantageous
- Good written and spoken communication skills in English or German

We offer:

- Diverse and exciting tasks in a collegial team comprising about 20 staff members
- A hybrid working model with up to 60% home office possibility
- State-of-the-art IT and support staff
- Broad internal and external training opportunities, various career options
- Central location and good accessibility (U1/U4 Karlsplatz)

TU Wien aims to increase the proportion of women, especially in leadership positions, and therefore explicitly encourages qualified women to apply. Remuneration is in accordance with the Collective Agreement for University Employees and is € 3.714,80 (Pre-doc) or € 4.932,90 (Post-doc) for a 40h/week employment. The monthly salary is paid 14 times per year. The extent of working hours per week can be negotiated. The contract will initially be limited to 1 year.

If this job opportunity aligns with your career plans, we look forward to receiving your application in English or German (cover letter, curriculum vitae, relevant publications and references) in a single PDF file by email with the subject "GNSS-R Data Scientist" to **apply@geo.tuwien.ac.at**.

Candidate selection will start on January 26, 2026 and will continue until a suitable candidate is found.

TU Wien will not refund any cost occurred in the course of an application.

Ass. Prof. Dr. Gregor Möller
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