



The research group Climate and Environmental Remote Sensing of the Department of Geodesy and Geoinformation of TU Wien is seeking a motivated

Data processing specialist in microwave remote sensing (m/f)

The Climate and Environmental Remote Sensing group (<http://climers.geo.tuwien.ac.at/>) develops long-term remote sensing datasets of soil moisture and vegetation and uses them to address pressing climatological and environmental issues. We work closely together with the Microwave Remote Sensing group (<http://rs.geo.tuwien.ac.at/>), one of the world leading groups in the retrieval of soil moisture and land surface characteristics from active microwave remote sensing. Together we employ about 40 staff members currently working on approximately 25 projects supported by various national, European and international programs, grants and funding sources.

To support the research work of our team, we are looking for a skilled microwave remote sensing data processing specialist with a background or interest in geospatial sciences. The candidate will particularly support our activities within ESA's Climate change Initiative for Soil Moisture (<http://www.esa-soilmoisture-cci.org/>) and the Copernicus Climate Change Service (C3S; <http://climate.copernicus.eu/>).

Your Responsibilities:

- Processing and analysis of remote sensing data (soil moisture, vegetation variables, and similar) from passive and active microwave data
- Developing scientific algorithms in the fields of microwave remote sensing, image processing, time series analysis, and Big Data analysis
- Contribution in software development using object-oriented programming language
- Prototyping, implementing, and testing of processing chains and generation of value-added products
- Validation of long-term microwave remote sensing datasets
- Documentation and version control of software
- Writing technical documents, project reports and scientific journal papers

Your Profile:

- Master (or equivalent) degree *OR* PhD degree in informatics, geoinformation sciences, geodesy, physical geography, mathematics, or similar
- Excellent programming skills (Python, Matlab, Fortran, C++, IDL ...)
- Experience in remote sensing data processing and derivation of geophysical parameters (e.g. soil moisture, vegetation, snow and ice, ...)
- Strong analytical and technical skills and problem solving capability
- Solid knowledge of statistical methods for temporal and spatial analysis of scientific data
- Interest in geospatial sciences
- Good written and spoken communication skills in English

We Offer:

- The opportunity to work in an innovative, motivated and successful team
- Flexible working hours
- Workplace close to city center of Vienna
- Possibility to enroll in the PhD program of TU Wien
- The extent of the employment is negotiable between 30 and 40 hours per week
- The salary is based on the Austrian regulations for university staff. The monthly minimum salary for full-time employment (40 hrs/week) is € 2.794,60 for a Pre-Doc and € 3.711,70 for a Post-Doc position, respectively. The monthly salary is paid 14 times per year.
- Envisaged start date is January 1st, 2019 and will be time-limited; the duration is subject of negotiation.

If this job opportunity fits your career development plans, we are looking forward to receiving your application in English (cover letter, CV, relevant publications and references) and in one single PDF file via e-mail to rs-sek@geo.tuwien.ac.at

Candidate selection will start on **December 1st, 2018** and will continue until a suitable candidate is found. TU Wien will not refund any cost occurred in the course of an application.

For further information, please contact Prof. Wouter Dorigo at wouter.dorigo@tuwien.ac.at.