

# Earth Observer?

## Develop the future of environmental monitoring.

To strengthen our team we are looking for

## Scientific employee with opportunity for doctorate (50%) (m/f/d)

Research Topic: Emission sources from satellite data for an improved forecast of the pollen flight in Bavaria  
The aim is a valid and practicable pollen forecast for Bavaria, which is characterized by a high spatial resolution as well as by a prediction as early as possible. The emission sources shall be derived from current Sentinel-2 time series using EO data cubes.

### Your Remits

- Your research focus will be on time series analyses of Sentinel-2 satellite data and in-situ data on vegetation phenology in forest and grassland ecosystems.
- You shall develop time series analyses and mapping workflows using analyses ready data (ARD) in an Earth Observation Data Cube framework.
- You will integrate in-situ field data on forest tree species and grassland land use and land cover data together with multi-scale UAV and satellite data for vegetation structure and land dynamics mapping.
- You will test and integrate satellite-based land use and land cover data with existing spatially related numerical dispersion models developed for atmospheric composition.
- You join the development of training and workshop content for stakeholder and user trainings in the project team.

### Your Profile

- You have sound experience in dealing with satellite data, in particular SAR data and optical satellite data.
- You have experience in working with GIS and Remote Sensing and have used it in a project-related context.
- You have knowledge in programming languages like Python, R or Java Script and are motivated to develop yourself further here.
- You like to work in an multi-disciplinary project context including IT and computer science, forestry, biology and geography.
- You have completed your studies in a scientific or technical field (preferably geoinformatics, geography or computer science) very well.
- You are familiar with modern IT systems for the use or development of cloud-based software solutions.

### We offer you

- New exciting challenges of future-oriented topics in a creative team-oriented environment at the Remote Sensing Department of the University of Würzburg.
- You benefit from an extensive scientific network and the close connection to the German Aerospace Center (DLR).
- We offer a 50% position for three years and a close scientific mentoring to advance your academic career. You have the opportunity to write a doctoral thesis within the framework of this activity.

Severely disabled persons are given preferential employment if their aptitude, skills and professional performance are essentially the same. The recruitment is subject to the approval of the project by the funding agency.

### Apply with your complete application documents by e-mail to

[christian.huettich@uni-wuerzburg.de](mailto:christian.huettich@uni-wuerzburg.de)

Further Information:

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