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Department of
Remote Sensing

EARTH OBSERVATION RESEARCH

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Open Student Assistant Position – Moving Existing Forest Structure Modelling Workflow from Google Earth Engine to High Performance Data Analytics Platform

We are looking for a student assistant to support us in a research project focusing on multi-sensor remotely sensed forest structure analyses in Germany. Within the project, we work on modelling forest structure attributes for German forests based on various spaceborne sensors (Sentinel-1, Sentinel-2, GEDI). An existing workflow has already been developed within the cloud-computing platform Google Earth Engine (GEE). The tasks for this position is to move the processing workflow from GEE Python to Terrabyte, which is a High Performance Data Analytics Platform. In addition, different model configurations (novel DL algorithms, varying predictor variables) should be tested.

Your qualifications

- Enrolled in an ongoing study program (for more than one year to go from 01.02.2024 on) in geoinformatics, geography, informatics, environmental science, geophysics or similar
- Experience in remote sensing image processing
- Programming skills (Python, Google Earth Engine Python)
- Experience in working with geodata using popular Python packages (xarray, dask, geopandas)

We offer

- Working with international experts
- Insight and participation in research projects
- Flexible working hours (50 h/month) for one year
- Starting date around 01.02.2024

Please send applications including a CV to patrick.kacic@*uni-wuerzburg.de*