

## Faculty of Environmental Sciences

At the **Department of Geosciences, Institute of Photogrammetry and Remote Sensing**, the **Junior Professorship in Environmental Remote Sensing** offers a project position as

### **Research Associate (m/f/x)**

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **March 1, 2022**. The position comprises 65 % of the fulltime weekly hours and is limited until September 30, 2024. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG).

**Tasks:** Within the DFG-funded project “PhenoFeedBacks”, you will investigate how large-scale changes in phenology affect biophysical feedbacks in the Earth system. Specifically you will investigate effects of phenology on land surface temperature, surface energy balance, vegetation water content, and fire risks by using various Earth observation datasets and methods from explainable machine learning. You will gather, process and analyse remote sensing data; implement, train, evaluate and analyse machine learning models; and write and publish scientific publications and presentation at international conferences and workshops.

**Requirements:** university degree and, if applicable, PhD degree in the field of geosciences, environmental sciences or physics with focus on meteorology/climate, biogeography, remote sensing or machine learning; knowledge in the analysis of remote sensing and climate data with R and/or Python; practical experiences in Linux/Unix; scientific compelling MSc thesis or first scientific publications; interest in global environmental and climate change; high capacity for team work and communication skills; business fluent written and oral English skills. Knowledge in German language would be advantageous but is not required. Experiences in deep learning methods and methods from explainable machine learning are desirable.

**What we offer:** An interesting work in a young and social research group in cooperation with partners from the Max Planck Institute for Biogeochemistry and the EC Joint Research Centre and further international partners.

Please send further questions to Jun.-Prof. Dr. Matthias Forkel ([matthias.forkel@tu-dresden.de](mailto:matthias.forkel@tu-dresden.de), Tel.: +49 351 463 32270).

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your comprehensive application (1 page research idea/outline, CV, study certificates, publications, two reference contacts) by **January 7, 2022** (stamped arrival date of the university central mail service applies) via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf document to: [matthias.forkel@tu-dresden.de](mailto:matthias.forkel@tu-dresden.de) or to: **TU Dresden, Fakultät Umweltwissenschaften, Fachrichtung Geowissenschaften, Institut für Photogrammetrie und Fernerkundung, Juniorprofessur für Umweltfernerkundung, Herr Jun.-Prof. Dr. Matthias Forkel, Helmholtzstr. 10, 01069 Dresden**. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: <https://tu-dresden.de/karriere/datenschutzhinweis>