



Reference number 324/2021

## **Scientist (m/f/d) in the field of 3D remote sensing (with an emphasis on terrestrial laser scanning) and biodiversity research**

Founded in 1409, Leipzig University is one of Germany's largest universities and a leader in research and medical training. With around 30,000 students and more than 5000 members of staff across 14 faculties, it is at the heart of the vibrant and outward-looking city of Leipzig. Leipzig University offers an innovative and international working environment as well as an exciting range of career opportunities in research, teaching, knowledge and technology transfer, infrastructure and administration. Leipzig is a vibrant hotspot for creativity in central Germany, known for its world-class research in biodiversity, meteorology and remote sensing.

The Remote Sensing Centre for Earth System Research ([www.rsc4earth.de](http://www.rsc4earth.de), Remote Sensing in Geo- and Ecosystem Research group at the Institute for Geophysics and Geology) at the Faculty of Physics and Earth Sciences seeks to fill the above position at the earliest opportunity.

### **About the position**

Fixed term of 3 years

100 % of a full-time position

Planned remuneration: salary group E 13 TV-L

### **Duties**

Independent research as part of an interdisciplinary team in support of the Remote Sensing Centre and in collaboration with colleagues in meteorology and biodiversity science

Acquisition and processing of 3D remote sensing data of forest and grassland ecosystems with terrestrial laser scanning (TLS and drone-based structure from motion) techniques in the framework of the University and iDiv research infrastructure including the Canopy Crane Facility and the MyDiv diversity experiment.

Statistical analysis of 3D remote sensing data in combination with field measurements for research on biodiversity-climate interactions

Spatiotemporal analysis of ecosystems in the context of climate change and climate-biodiversity interactions

Regularly write high-quality research articles for high-impact journals, book chapters, and reviews

Present papers at conferences, and lead seminars to disseminate research findings

Provide academic supervision for research students.

### **Requirements**

PhD in earth and environmental sciences, ecology, forestry, geomatics or a related topic

Experience in the acquisition and processing of TLS data in forest and/or grassland ecosystems

Experience in field sampling of structural vegetation data, (statistical) analysis of 3D structural ecosystem properties, remote sensing, and/or other 3D remote sensing techniques such as UAS-based SfM

Ability to work in local to international collaborative projects

Capacity for interdisciplinary collaboration (specifically meteorology and biodiversity science)

Very good command of data analysis and programming languages (e.g. R, python)

English language skills.

### **What we offer**

A modern workplace and attractive working conditions (mobile working)

Flexible working hours and work-life balance

Goal-oriented staff development throughout your working life, with opportunities for continuing professional development

Pension plan

Commuter pass for the MDV network.

**Specific questions should be addressed to Professor Hannes Feilhauer ([hannes.feilhauer@unileipzig.de](mailto:hannes.feilhauer@unileipzig.de)).** Please send your application, **preferably by email as a single PDF file**, with the usual documents (CV, list of publications, certificates, motivation letter) quoting reference number

324/2021, by **22 December 2021** to: [dekan@physik.uni-leipzig.de](mailto:dekan@physik.uni-leipzig.de) or to Leipzig University, Dean of the Faculty of Physics and Earth Sciences, Professor Christoph Jacobi, Linnéstraße 5, 04103 Leipzig.

Please note that it is not possible to guarantee confidentiality and rule out unauthorised access by third parties when communicating by unencrypted email. We kindly request that you submit copies only, as we are unable to return application documents. Interview expenses will not be reimbursed.

Leipzig University aims to increase the proportion of women in positions of responsibility and therefore expressly invites qualified women to apply. Severely disabled persons – or persons deemed legally equal to them under Book IX of the German Social Code – are encouraged to apply and will be given preference in the case of equal suitability.

### ***Privacy information***

*If you choose to apply and send us your documents, you do so voluntarily. Any personal data contained within your application documents, or obtained during an interview, will be processed by Leipzig University – as the advertiser of the position – exclusively for the purposes of the selection process for the position advertised. It will not be passed on to third parties without your consent in the individual case. The legal basis for such data processing is Sect. 11(1) of the Saxon Data Protection Implementation Act (SächsDSDG) in conjunction with the EU General Data Protection Regulation (GDPR). The controller for the application process within the meaning of the GDPR is the addressee of the application, specified in the advertisement. Your personal data will be stored for six months after the end of the recruitment process and then erased or destroyed in accordance with data protection regulations. You may refuse or withdraw your consent with effect for the future without giving reasons. In these cases, Leipzig University will not or no longer be able to process and consider your application. Under the GDPR, subject to the relevant statutory requirements you have the following rights vis-à-vis the addressee of the application with regard to your personal data: right of access (Art. 15 GDPR); right to rectification of inaccurate personal data (Art. 16 GDPR); right to erasure (Art. 17 GDPR); right to restriction of processing (Art. 18 GDPR); and right to object to processing (Art. 21 GDPR). If you have any questions, please contact the Data Protection Officer at Leipzig University (office: Augustusplatz 10, 04109 Leipzig). You also have the right to lodge a complaint with the Saxon Commissioner for Data Protection.*