



UNIVERSITÄT LEIPZIG

Reference number 59/2020

DOCTORAL RESEARCHER (M/F/D)

Limited for 3 years

50% of a full-time position

Salary: *Entgeltgruppe 13 TV-L*

The **Faculty of Physics and Earth Sciences** seeks to fill the above position at the earliest opportunity.

Leipzig is a vibrant hotspot for creativity in eastern Germany, known for its world-class research in biodiversity and ecosystem sciences. The **Faculty of Physics and Earth Sciences at Leipzig University** and the **Helmholtz Centre for Environmental Research (UFZ)** are preparing to establish a **Remote Sensing Centre for Earth System Research** to expand research in this area and better understand ecosystems in a changing world. The newly established lab **Modelling Approaches in Remote Sensing** (from 1 April 2020) is looking for a creative individual who shares our overarching interests in ecosystem functioning across scales and wants to explore the potential of novel data science approaches in this broad context.

One important question, for example, is how to quantify the manifold effects of climate extremes on ecosystems. In particular, we want to understand to what extent “biodiversity” buffers the effects of climate extremes on the functioning of ecosystems. Another important question is under which environmental conditions climate extremes trigger humanitarian disasters. The latest remote sensing data as well as novel data science methods will form the backbone of this work. The doctoral thesis will develop methods that can be integrated into the concept of the “Earth System Data Cube”.

Our primary aim is to foster excellence and pave your personal path to success! As such, we welcome other ideas as long as they are compatible with the overarching lab strategy and contribute to the new remote sensing centre and collaborations with other partners in the region.

Requirements

- Master’s degree in a related field e.g. Earth System Sciences, Geoecology, Ecoinformatics, Computer Sciences, Applied Statistics or Mathematics
- Strong analytical skills and ability to think “outside the box”
- Interest in understanding ecological effects of global change
- Interest in machine learning methods and/or causal inference
- Experience in one language of scientific computing (e.g. R, Python, Julia)

For further enquiries please contact Miguel Mahecha (miguel.mahecha@uni-leipzig.de), who will head the new lab from 1 April 2020.

Please send your application including 1) letter of motivation; 2) CV; 3) a list of publications, if available; and 4) names of up two relevant academic references, quoting the reference number 59/2020, to

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
Germany

by no later than 31 March 2020.

Please note that it is not possible to guarantee confidentiality and rule out unauthorised access by third parties when communicating via unencrypted email.

Disabled people are encouraged to apply and will be given preference in the case of equal suitability.

Privacy information

The personal data contained within your application documents or obtained during the interview will be processed exclusively for the purposes of the selection process for the position advertised. The legal basis for such data processing is Section 11(1) of the Saxon Data Protection Implementation Act (Sächs DSDG) 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, as specified in the respective advertisement. When processing your application, your personal data will be passed on within Leipzig University to

- members of the selection committee*
- the human resources management teams*
- the Commissioner for Equal Opportunities*
- the Disability Officers and*
- if necessary, the Staff Council*

as part of their organisational or statutory responsibilities.

Your personal data will be erased no later than six months after completion of the selection process. In accordance with 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.