



Reference number 331/2021

Project coordinator / lead scientist for the National Research Data Infrastructure for Earth System Research – NFDI4Earth (m/f/d)

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** (<https://rsc4earth.de/>), Earth System Data Science group (led by Professor Mahecha) at the Faculty of Physics and Earth Sciences seeks to fill the above project position at the earliest opportunity.

The project coordinator will coordinate and work hands-on with the **National Research Data Infrastructure for Earth System Research** (<https://nfdi4earth.de/>). The aim of the NFDI4Earth is to provide **simple, efficient and open access to all data relevant to earth system research**. Major implementation guidelines are the FAIR principles, which impact the whole research data life cycle. Within the NFDI4Earth project, RSC4Earth is coordinating Task Area 1 ("2Participate"), specifically a wide range of "Pilot Studies" (for details see: <https://nfdi4earth.de/participate/get-involved-by-pilots/pilots-2020>).

The successful candidate will actively guide and coordinate the Pilot Studies within the NFDI4Earth, steer their integration into the main developments, and support the NFDI initiative as a whole. Of particular relevance will be the interaction among different well-established and novel data and metadata formats, also using cloud applications and cloud-based storage systems. RSC4Earth is also involved in other international initiatives funded by the EU and ESA and seeks to ensure compatibility of NFDI4Earth development with other national and international approaches to research data exploitation and management in the earth system sciences.

About the position

Fixed term of 4 years

100% of a full-time position

Planned remuneration: salary group E 14 TV-L

Duties

Coordination of the NFDI4Earth Pilot projects via regular individual and group meetings.

Scientific guidance of NFDI4Earth Pilot projects along community needs.

Steering upcoming Pilot calls and coordination with the NFDI4Earth community.

Independent scientific research on novel technologies and their potential value for NFDI4Earth users and infrastructures (e.g. using data cube technologies for gridded data, deep learning applications that consider the specificities of earth system data).

Spatio-temporal analyses of global earth system processes in a climate change context.

Presentation of the NFDI4Earth at conferences, leading seminars to disseminate results and other outreach activities.

Offering training for researchers on research data management in tandem with the Leipzig University RDM team.

Requirements

Completed university degree (MS) in geoinformatics, computer sciences, geophysics, physics, geocology, remote sensing or a related field.

Research experience in the earth system sciences or related field ideally proven through a completed PhD.

Experience in handling geospatial/-temporal data in an earth system context and common earth system science data formats like NetCDF, HDF5, GeoTIFF and a curiosity to work on emerging data formats like Zarr.

Understanding of the problems that arise when dealing with very large data sets.

Openness in exploring and evaluating new and advancing technologies for the earth system science community. Fluency in one or more scientific programming languages such as Python, Julia or R. Very good communicative skills (oral and written) in English and German, and a willingness to learn German as quickly as possible, if necessary. Capacity for interdisciplinary collaboration.

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 and applications should be addressed to Professor Miguel Mahecha (miguel.mahecha@uni-leipzig.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 331/2021, **by 14 January 2022** 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.

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.