



UNIVERSITÄT
LEIPZIG

Postdoctoral position in the field of atmospheric radar remote-sensing, image processing and biodiversity research (m/f/d)

Founded in 1409, Leipzig University (UL) 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 is a vibrant hotspot for creativity in central Germany, known for its world-class research in atmospheric science, remote sensing, and biodiversity research.

The Leipzig Institute for Meteorology (LIM, www.physgeo.uni-leipzig.de/en/institute-for-meteorology/) at the Faculty of Physics and Earth Sciences seeks to fill the above position at the earliest opportunity.

Terms of employment

- Fixed term of 3 years
- 100 % of a full-time position
- Planned remuneration: salary group E13 TV-L

Duties

- Independent research as part of an interdisciplinary team in the atmospheric remote sensing group of LIM and in collaboration with colleagues in meteorology and biodiversity science
- Development of techniques to retrieve insect number concentration and insect taxonomical types from 3D video sensor observations
- Development of scattering data base of insects based on 3D insect models to simulate insect radar returns
- Analysis of cloud radar data for identification of insects
- Write high-quality research articles for high-impact journals, book chapters, and reviews
- Present scientific results at conferences
- Provide academic supervision for research students

Requirements

- PhD in data science, atmospheric science, (radar) engineering, or a related topic
- Interest in interdisciplinary collaboration (specifically meteorology and biodiversity science)
- Very good command of data analysis and programming languages (e.g., Python, Matlab)
- Excellent English language skills
- Experience in at least one of the following would be advantageous:
 - Meteorological radar applications
 - Discrete dipole approximation (DDA) scattering calculations
 - Image processing

The position is open until filled, the review of applications starts February 18th, 2022. Specific questions should be addressed to Jun-Prof. Heike Kalesse-Los (heike.kalesse@uni-leipzig.de). Please send your application with the usual documents (CV, list of publications, certificates, motivation letter, contact information of two referees) as a single PDF file to heike.kalesse@uni-leipzig.de. Please note that it is not possible to guarantee confidentiality when communicating by unencrypted email. We kindly request that you submit copies only, as we are unable to return application documents.

The selection for the position will be based solely on scientific merit without regard to gender, religion, national origin, political affiliation, marital or family status or other differences. Among equally qualified candidates, handicapped candidates will be given preference.