



UNIVERSITY
OF COLOGNE

Faculty of Mathematics and Natural Sciences

PhD student (f/m/x) – Earthquake Station Bensberg

Institute for Geology and Mineralogy



Foto: Gregor Hübb

We are one of the largest and oldest universities in Europe and one of the most important employers in our region. Our broad range of subjects, the dynamic development of our main research areas and our central location in Cologne make us attractive for students and researchers from around the world. We offer a wide range of career opportunities in science, technology, and administration.

The Earthquake Station Bensberg is opening a PhD position (f/m/x) at the Institute of Geology and Mineralogy in the Faculty of Mathematics and Natural Sciences at the University of Cologne. The station is continuously monitoring the local seismic activity in the Lower Rhine Embayment and the Northern Eifel region in Germany for nearly 70 years and has extended its network to more than 40 stations. It has grown to a nationally and internationally renowned observatory, thanks to the research activity in the field of Earthquake Geology and Archeoseismology.

YOUR TASKS

- » Analysis of seismological data derived from the Eifel Volcano Observation Network (EVON) using noise- or attenuation-based processing techniques
- » Investigate environmental factors on the variability of elastic parameters in the shallow subsurface, using active and passive seismic sources
- » Site characterization in a dense, seismological network
- » National and international collaborations in the Large-N Eifel project, including research visits at partner institutes (GFZ Potsdam, ROB and ULB – Belgium, etc.)
- » Participation in the routine processing of seismological data at the station
- » Supporting the maintenance of the seismological network and processing infrastructure
- » Teaching duties (two semester hours per week)

YOUR PROFILE

- » M.Sc. in Geophysics, Geosciences or Physics (or comparable)
- » Knowledge in seismological data processing
- » Interest in software-based problem solving and development
- » Fluency in English, if necessary willingness to learn German

- » Team-oriented, but self-reliant work skills
- » Keen to participate in outreach and public relation activities

WE OFFER

- » Independent and versatile research project in a small and affable working group (PhD thesis)
- » A diverse and fair working environment
- » Support in balancing work and family life
- » Extensive advanced training opportunities
- » Occupational health management offers
- » Flexible working time models
- » Opportunity to work remotely

The University of Cologne is committed to equal opportunities and diversity. Women are especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from people with disabilities / special needs or of equal status.

The position is available from 01.04.2024 on a part-time basis (29,87 hours per week). The position is to be filled for a fixed term until 31.03.2027. If the applicant meets the relevant wage requirements and personal qualifications, the salary will be based on remuneration group 13 TV-L of the pay scale for the German public sector.

Please send your application with proof of the required qualifications without a photo online to: <https://jobportal.uni-koeln.de>. The reference number is Wiss2401-24. The application deadline is 29.02.2024. For further inquiries, please contact Dr Martin Zeckra (mzeckra@uni-koeln.de).