

Postdoctoral researcher in earthquake geophysics

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Stellenbeschreibung

Faculty of Geography and Geosciences:

Institute of Geosciences - Tectonic Geodesy working group

In order to fill a **fixed-term position in full-time (39.83 hours/week = 100%) at the earliest possible date or by October 1, 2025**, we are looking for a

Postdoctoral researcher in earthquake geophysics

The Tectonic Geodesy working group at RUB is developing approaches to improve the monitoring of active plate boundaries with geodetic data. We combine geodetic data analyses with geophysical modeling techniques and complementary datasets (such as seismic data products) to characterize the evolving state along various fault systems worldwide.

Your tasks:

We are looking for someone with research experience and continued interest in the topics of earthquake cycle geophysics, geodynamics, or applied machine learning. We expect that suitable candidates will have experience in two or more of the following topics:

- Numerical modeling of earthquake/tectonic/geodynamic processes
- Modern optimization techniques (e.g. deep learning, automatic differentiation, SciML)
- Use of geodetic data (such as GNSS, InSAR, gravity measurements) for geophysical modelling
- Seismic waveform modelling
- Finite elements simulations

We expect the successful candidate to pursue their own research on topics that align with the above-mentioned research interests of the working group.

The position comes with teaching-related duties according to §3 Lehrverpflichtungsverordnung NRW (Teaching Obligation Ordinance of North Rhine-Westphalia)

Anforderungsprofil & Qualifikationen

Your profile:

- You must have completed a PhD in one of the related disciplines (see above).
- Demonstrable skills in scientific programming
- Proficiency in running code on HPC

We offer:

- Employment at one of the largest universities in Germany within the University Alliance Ruhr
- Challenging and varied tasks with a high level of independence
- Collaboration in a committed and appreciative team
- Discounts for bicycle purchases and bicycle rental systems
- A varied sports program with around 100 sport disciplines and the university's own gym

Further information:

The position is salaried and based on the collective agreement of the Länder (TV-L). If the personal and collective agreement requirements are met, the employee will receive pay grade E13 TV-L.

Further information can be found at <https://oeffentlicher-dienst.info/> (in German).

The place of work is Ruhr University Bochum.

Please include a motivation letter (including information about what topics you would like to research at RUB), your CV and your qualification certificates (BSc, MSc, and PhD certificates) in your application and provide the contact details of two referees in your CV. If you have any question about the position please send an email (without attachments) to jonathan.bedford@rub.de

At the request of the applicant (m,f,x), the staff council may be involved in selection interviews.

The Ruhr-Universität Bochum is one of Germany's leading research universities, addressing the whole range of academic disciplines. A highly dynamic setting enables researchers and students to work across the traditional boundaries of academic subjects and faculties. To create knowledge networks within and beyond the university is Ruhr-Universität Bochum's declared aim.

The Ruhr-Universität Bochum stands for diversity and equal opportunities. For this reason, we favour a working environment composed of heterogeneous teams, and seek to promote the careers of individuals who are underrepresented in our respective professional areas. The Ruhr-Universität Bochum expressly requests job applications from women. In areas in which they are underrepresented they will be given preference in the case of equivalent qualifications with male candidates. Applications from individuals with disabilities are most welcome.

Contact persons for further information:

Petra Dueckershoff Tel.: +49 234 32 24503

Travel costs, accommodation costs and loss of earnings or other application costs for job interviews can unfortunately not be reimbursed.

We look forward to receiving your application via our **online application portal by 2025-05-15**. Please make sure to mention the reference number ANR 4533.

Vorteile für Mitarbeitende

- Vergünstigtes Jobticket
- Arbeitsplatz in lebendiger Metropolregion

Stellenmerkmale

Beschäftigungsart

Wissenschaftliche Stellen

Beschäftigungsumfang

Vollzeit (befristet)

Home Office

Nein

Bewerbungslink

<https://jobs.ruhr-uni-bochum.de/jobposting/>

Kontaktdaten

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