



Faculty of Geosciences : Cartography Research Group

In order to fill a **fixed-term position in part-time (29.87 hours/week = 75%)** by **Month 05, 2026, or later**, we are looking for 1

PhD candidate (m/f/x) in Cartography

The Cartography Research Group explores how people perceive, understand, memorize and interact with spatial information in an increasingly digital world. We focus on cognitive visualization to design maps and 3D-visualizations of geographic space that align with human perception and decision-making. A second core area is XR-based visualization, developing immersive cartographic experiences in virtual, augmented, and mixed reality. In addition, we investigate the transformative potential of artificial intelligence (AI) for cartographic design features, analysis, and automated map generation.

Your tasks:

- Development of new cartographic visualizations
- Collection of research data, (statistical) analysis, and documentation of experimental studies
- Publishing results in English language publications and presenting at scientific conferences
- Teaching (3 SWS) in bachelor's and master's degree programs in geography, with a focus on cartography
- Networking activities within the German and international cartographic research community

Your profile:

- Passion for research and cartography
- Completed or soon-to-be completed master's degree in geography, psychology, geoinformatics, or any related field that involves data processing and visualization
- Significant experience in at least one (and ideally more than one) of the following areas: XR-visualization, programming (e.g. C#, R, python), GeoAI, experimental psychology, statistics
- High degree of self-motivation and ability to work independently

Scope: part-time
Duration: fixed-term,
3 Jahre
Start: by Month
05, 2026,
or later
Apply by: 2026-02-23

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.

- Good command of English

We offer:

- Challenging and varied tasks with a high level of independence
 - Employment at one of the largest universities in Germany within the University Alliance Ruhr
 - Collaboration in a committed and appreciative team
 - Extensive training and professional development opportunities
 - A job in the heart of the lively Ruhr metropolitan region with its diverse cultural offerings
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- A well-equipped research laboratory with strong potential for advanced visualization and experimental studies (e.g., XR equipment, 2D and 3D eye tracking)

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.

The load of teaching will be calculated according to § 3 of Lehrverpflichtungsverordnung (state of North Rhine-Westphalia).

RUB sees itself as a university with an international presence. The campus languages are German and English. Competence in at least one of the two languages and the willingness to learn the other are a prerequisite. RUB provides corresponding free courses for employees.

German language courses are offered by the University Language Center (ZFA) in the field of German as a Foreign Language (DaF). <https://www.daf.ruhr-uni-bochum.de/sbgk/index.html.en>

The Staff Council has the right to participate in all selection interviews. At the request of a candidate (m/f/x), it will ensure its participation in the entire procedure. Please contact wpr@rub.de.

Contact persons for further information:

PD Dr. Dennis Edler Tel.: +49 234 32 23362

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 **2026-02-23**. Please make sure to mention the reference number ANR 5337.

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.



