



## Faculty of Sports Science: Department of Human Movement Science

In order to fill a **fixed-term position in full-time (39.83 hours/week = 100%)** from **01/2026**, we are looking for a

### Postdoctoral Researcher (m/f/x) in Neuromechanics

The Department of Human Movement Science conducts research on the neuromusculoskeletal system of humans. To do this, we combine biomechanics and neurophysiology to better understand the interaction of the lower limb muscle-tendon units and the nervous system.

You will do research on human lower limb neuromechanics and more specifically on how the different lower limb muscle groups contribute to force and torque output at the foot and ankle. To better understand lower limb force and torque production, you will combine experimental research with modelling of the neuromuscular system. The NeuromechAHNics lab provides extensive experience in and a state-of-the-art laboratory for experimental research on in vivo human neuromechanics of movement including a unique dynamometer setup. Apart from research, the position comes with a teaching obligation of four teaching hours per semester in the area of Biomechanics and Motor Control within the international, English-speaking Master of Science program entitled "Sport and Exercise Science for Health and Performance". You are also expected to advise and to supervise master students.

#### Your tasks:

- Design and conduct experimental studies
- Predictive musculoskeletal modeling of the designed experiments
- Data analysis and publication of research findings in high-quality journals
- Grant proposal development and writing
- Supervision and mentoring Master of Science students
- Teaching Master of Science students in Biomechanics & Motor Control

#### Your profile:

- Excellent PhD in Biomechanics or a closely related field

<b>Scope:</b>	full-time
<b>Duration:</b>	fixed-term, 3 Jahre
<b>Start:</b>	from 01/2026
<b>Apply by:</b>	2025-10-13

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.

- Solid publication record in high-quality journals
- Expertise in musculoskeletal modelling
- Experience with experimental methods and statistical analysis
- Experience in teaching Biomechanics and/or Motor Control
- Team spirit and collaborative mindset
- Adequate proficiency in academic English (writing and communication)
- Experience in supervising students is an advantage

## We offer:

- Challenging and varied tasks with a high level of independence
- State-of-the-art neuromechanics laboratory
- Joining a highly motivated, supportive, and internationally recognized research team
- Extensive training and professional development opportunities
- Opportunity to advance your academic career
- Travel funds for conference attendance

## 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).

Please submit your application as a single .pdf file including a short cover letter, curriculum vitae with a list of publications and academic presentation as well as the names and contact information of two references.

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](mailto:wpr@rub.de).

## Contact persons for further information:

Daniel Hahn Tel.: +49 234 32 27905;  
Brent Raiteri Tel.: +49 234 32 22315

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 **2025-10-13**. Please make sure to mention the reference number ANR 5039.

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.



**RUHR-UNIVERSITÄT BOCHUM**

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Universitätsstraße 150

<https://uni.ruhr-uni-bochum.de/de/stellenangebote>