

Paderborn University is a high-performance and internationally oriented university. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our employees in research, teaching, technology and administration a lively, family-friendly and equal opportunity environment, a lean management structure and diverse opportunities. **Join us to invent the future!**

In the **Faculty of Natural Sciences** in the Department of Chemistry – **Inorganic Chemistry** – Research Group of Prof. M. Bauer & Jun.-Prof. F. R. Fischer – the following position is available from 1 December 2026 as part of the **DFG-funded Collaborative Research Center (CRC) 1333 – Molecular Heterogeneous Catalysis in Confined Geometries**:

Research Associate (f/m/d)

(Salary level according to 13 TV-L)

with 50% of the regular working hours. This is a fixed-term position initially limited for three years due to third-party funding within the meaning of the German Act on Fixed-Term Research Employment Contracts for Academic Staff (Wissenschaftszeitvertragsgesetz "WissZeitVG"). The duration of the fixed term corresponds to the approved project period. The possibility of a doctorate qualification is given. An extension is possible within the time limits of the "WissZeitVG".

Your responsibilities:

- Contribute to the multidisciplinary Collaborative Research Center described above, with the aim of establishing confinement effects as a key concept in catalysis research
- Investigate mono-, bi- and trimetallic mesoporous systems (e.g. Cr-MIL catalysts) using static and time-resolved X-ray spectroscopy (XAS, XES) to identify and exploit confinement effects
- Regular XAS and XES experiments at synchrotron radiation facilities and free-electron lasers (FELs) in Germany and abroad
- Develop expertise in complementary methods for conducting/analyzing X-ray experiments (e.g. TD-DFT calculations)
- Establish and maintain active collaborations with numerous subprojects within CRC 1333
- Participate in project meetings and subject-specific scientific conferences
- Prepare scientific publications, beamtime proposals and third-party funding applications

Your profile:

- A university degree (Master's degree or equivalent) in Chemistry or Physics
- Experience in X-ray spectroscopy (X-ray absorption and X-ray emission) and theoretical spectroscopy or inorganic complex chemistry, as well as in planning and conducting corresponding experiments
- An independent, structured and goal-oriented approach to work
- Identification with the multidisciplinary nature of the Collaborative Research Center (catalysis, materials science, analytical chemistry, theory and simulation science) and the enthusiasm to learn beyond your individual research topic
- Willingness to actively participate in CRC events and qualification measures including regular exchange within the CRC 1333 (post)doctoral community.

We offer:

- An interdisciplinary research environment and state-of-the-art scientific infrastructure
- All doctoral researchers are members of a structured graduate program including workshops, seminars and various conferences on an international level
- Flexible working hours and the individual option of mobile working
- Wide range of health, counseling and prevention services
- Attractive fringe benefits such as childcare facilities and sports activities
- Opportunities for internal and external training and development
- Additional benefits in accordance with the collective agreement of the federal states (TV-L), such as annual bonuses and capital-forming benefits as well as the VBL supplementary pension scheme

Applications from women are particularly welcome and, in case of equal qualifications and experiences, will receive preferential treatment according to state law (LGG), unless there are preponderant reasons to give preference to another applicant. Part-time employment is generally possible. Applications from disabled people with appropriate suitability are explicitly welcome. This also applies to people with equal opportunities in accordance with the German social law SGB IX.

Please send your application documents (preferably in a single pdf file) using the **Ref. No. 7400** until **October, 9th 2026** to felix.richard.fischer@uni-paderborn.de.

Information on the processing of your personal data is available at:
www.uni-paderborn.de/zv/personaldatenschutz.

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HR EXCELLENCE IN RESEARCH

