

The Laboratory for Electron Microscopy (LEM) is the central facility for Electron Microscopy at the Karlsruhe Institute of Technology (KIT). Starting **February 1st 2025**, we are offering an exciting opportunity for a motivated individual to join us as a

Research Associate (f/m/d) - PostDoc Position

This role is part of a high-impact project, *“Transmission and Scanning Electron Microscopy Investigation on Catalyst Coated Membranes for Polymer Electrolyte Membrane Fuel Cells”*. As a member of our team, you will explore the frontiers of materials science using state-of-the-art electron microscopy techniques. Using conventional and analytical TEM techniques, you will be able to do groundbreaking material research in the field of energy technologies. We are proud to offer one of the most extensive selections of advanced electron microscopy tools and we are thrilled to announce that in **Summer 2025**, we will be welcoming a brand-new, double aberration-corrected, monochromated electron microscope. This cutting-edge instrument will open the door to even more sensitive, faster, and higher-resolution research.

Your Profile:

- PhD in Physics, Materials Science, or a related field
- Mandatory experience in electron microscopy (TEM/SEM)
- Familiarity with TEM sample preparation techniques (e.g., cryo-ultramicrotomy) is a plus
- Strong software/IT skills are beneficial
- Excellent team player, enthusiastic, and eager to learn new skills
- Strong written and oral communication skills in English

In particular, you will have the following tasks:

- TEM sample preparation, including cryo-ultramicrotomy
- Investigating catalytic nanoparticles and polymer electrolyte membrane fuel cells
- Collaborating closely with interdisciplinary project partners
- Documenting and publishing your findings, Presenting your work at conferences
- Mentoring Bachelor's and Master's students

What We Offer:

- Be part of an exciting, interdisciplinary project with a high-profile industrial partner (SCHAEFFLER, a leading German company in motion technology)
- Access to cutting-edge microscopy infrastructure, including our upcoming world-class double-corrected and monochromated microscope
- The opportunity to work at one of Germany's leading universities of excellence, known for its research impact and global reputation
- A 24-month fixed-term contract with opportunities for further academic development and training
- Comprehensive support for young scientists at KIT
- Competitive salary based on the German TV-L E13 wage agreement

KIT is committed to increasing the diversity of its workforce, so we strongly encourage female applicants to apply. Applicants with severe disabilities will be given preference if equally qualified.

Ready to join our team? Please send your application as one pdf document (including a cover letter, CV, list of publications, degree certificates, a PDF of your doctoral thesis, and other relevant documents) to heike.stoermer@kit.edu by **November 30, 2024**.