

The Innovative Electron Microscopy Department develops and applies electron microscopy methodologies for nanoscale and atomic-resolution characterization of soft functional materials and their interfaces, with specific focus on soft-hard interfaces.

## ► PhD STUDENT (F/M/D): ELECTRON MICROSCOPY OF SOFT FUNCTIONAL MATERIALS

We are looking for a highly motivated PhD student (f/m/d) in the field of materials science who is passionate about both physical chemistry and nanoscale characterization of materials.

### YOUR TASKS:

The PhD position is part of the E-MOSAIC project, which is focused on the development of electron microscopy approaches for the characterization of complex hybrid materials at the atomic scale. As a member of the project team, you will contribute to establishing and applying low-electron-dose workflows for the analysis of the local structure in soft functional materials (semi-crystalline and amorphous materials) using electron diffraction and electron energy loss spectroscopy methodologies. You will apply statistical methods for the combined analysis of the obtained data with the aim to retrieve information about both local coordination and chemical composition in these materials at the nanoscale.

### YOUR PROFILE:

- You have a Master's degree in Chemistry/Materials Science/Physics or a closely related field, with a strong interest in transmission electron microscopy and/or spectroscopy techniques.
- Experience with material characterization using microscopy and/or spectroscopy techniques is an advantage.
- Ability to work as a member of an international, multi-disciplinary team.
- Excellent communication and writing skills, thorough command of the English language. German language knowledge is very beneficial.

### WE OFFER:

We offer excellent conditions for you to complete your doctoral degree:

- An exciting position in a dynamic research team located on the attractive research campus Saarbrücken.
- An opportunity to work with high-end microscopy equipment, including an aberration corrected transmission electron microscope, and different scanning electron microscopes.

### KONTAKT

INM – Leibniz-Institut  
für Neue Materialien gGmbH  
Campus D2 2  
66123 Saarbrücken  
[www.leibniz-inm.de](http://www.leibniz-inm.de)

Prof. Dr. Nadja Tarakina  
Head of Innovative Electron  
Microscopy Department

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- Strong support to perform high-quality research and to publish and present your research results (journals, national and international conferences).
- A comprehensive benefits package (flexible working hours, mobile working, company pension scheme).

Desired starting date: as soon as possible, salary level E13 TV-L 60%, contract limited to three years (with possible extension).

We are looking forward to receiving your application (CV, a complete list of publications, one-page motivation letter, at least two letters of reference) by **November 15th, 2025**.

Please use our online application system ( <https://www.leibniz-inm.de/en/job-offers-2/> ).

The INM practices an open and appreciative corporate culture in which the existing diversity is promoted and lived. The institute is an equal-opportunity employer with a certified family-friendly policy, and it provides offers for a better work life balance, flextime and mobile working. We promote the professional opportunities of women and strongly encourage them to apply. Severely disabled applicants with equal qualifications and aptitude will be given preferential consideration.



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