

INM is an internationally leading center for interdisciplinary research on hybrid materials, and their exploitation in materials-based solutions for a sustainable world with increasing digitalization and medical needs. Our research integrates materials chemistry, biological processes, physical analysis, and process engineering. We aim for leadership in the fields of opto-interactive, electro-integrative and bio-intelligent material systems. In these areas, we actively seize opportunities to transfer our scientific results into materials-driven innovation.

The engineering of hybrid materials requires understanding of interfacial phenomena through in-depth characterization of the physicochemical properties of interfaces at different length scales and in-operando conditions. Electron Microscopy provides high-resolution structural and compositional analysis of our materials, and is pivotal in supporting cutting-edge research at the institute.

We seek a highly motivated and experienced specialist as

Head of the Core Facility Electron Microscopy (f/m/d, full or part time work)

We are particularly interested in candidates at a senior level that can conduct and coordinate projects and ideally can run the electron microscopy facility immediately or after a short orientation phase.

The Core Facility Electron Microscopy is scientifically integrated within the Research Department Innovative Electron Microscopy at INM. The post holder is expected to dedicate 50% of working time to run the EM facility and service for INM's Scientific Units, and 50% to own research as part of the Research Department Innovative Electron Microscopy.

Your tasks

As Head of the Core Facility Electron Microscopy, you will work on a variety of the electron microscopes (SEM, TEM, FIB), providing a professional microscopy service for the INM, including training, advice, guidance to staff and performing measurements within variety of research projects undertaken by INM. This includes:

- Providing expert advising on best practice, planning, supervising and applying techniques in electron microscopy to research projects undertaken by INM.
- Training users of the EM facility (including SEM, FIB, conventional and aberration-corrected TEM).
- Maintaining EM facility within INM.
- Actively contributing to analysis and management of the EM data. Preserving and developing a Research Data Management Plan for the facility.
- Actively engaging in the scientific exchange with the Scientific Units at INM, as well as external academic and industrial partners.

As part of the Research Department Innovative Electron Microscopy, you will actively contribute to the development, validation and implementation of novel electron microscopy techniques for analysis of complex functional materials. The development of an own research direction will be strongly encouraged. Scientific publishing and presentation of research results in internal, national and international meetings is also expected.



CONTACT

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66123 Saarbrücken
Deutschland
www.leibniz-inm.de

You have

- PhD in materials sciences, physics, chemistry or a related discipline, with a strong focus on electron microscopy.
- A proven experience in scanning/transmission electron microscopy and related spectroscopy techniques applied to functional materials. Additional experience in advance STEM-related techniques and/or cryogenic SEM/TEM in application to electron beam sensitive materials and/or biological samples, would be advantageous.
- A proven track-record of research achievements in electron microscopy, and a genuine interest in developing EM techniques and applications.
- Strong problem-solving skills, and the ability to manage multiple projects with internal and external partners.
- Excellent communication and collaboration skills to work effectively in collaboration with multidisciplinary teams.
- Fluency in English and ideally in German

We offer

- An open, stimulating, interdisciplinary, and international research environment with excellent, state-of-the-art infrastructure.
- A cooperative environment, with plenty of opportunities to contribute to joint research projects with colleagues at INM and beyond.
- An environment that welcomes participation and supports self-driven development.
- Opportunities for professional development.
- A TV-L 100% contract according to your qualification level. The contract will initially be limited for 2 years with the opportunity for a permanent contract based on transparent performance criteria.

Interested?

We look forward to your application! Please upload your CV and motivation letter by November 18th, 2024 via our online application system: <https://www.leibniz-inm.de/stellenangebote/> or via email to personal@leibniz-inm.de

For further information on this position, please contact INM Scientific Directors Prof. Dr. Aránzazu del Campo (aranzazu.delcampo@leibniz-inm.de) or Prof. Dr. Wilfried Weber (wilfried.weber@leibniz-inm.de). For information on the institute, please see: <https://www.leibniz-inm.de/en/> and <https://www.leibniz-inm.de/en/research/core-facilities/physical-analytics/>

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, flex time, and mobile working. We promote professional opportunities for women and strongly encourage them to apply. Full-time jobs can be generally divided. Severely disabled applicants with equal qualifications and aptitude will be given preferential consideration.



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