

The Leibniz Institute for Solid State and Materials Research Dresden e. V. (IFW Dresden) conducts modern materials research on a scientific basis for the development of new and sustainable materials and technologies. The institute employs an average of 500 people from over 40 nations and, in addition to its scientific tasks, is dedicated to promoting young scientists and engineers. The IFW supports its employees in reconciling work and family life and regularly undergoes the audit [berufundfamilie®](mailto:berufundfamilie@ifw-dresden.de). Further information at: <http://www.ifw-dresden.de>.



The Leibniz Junior Research Group Sustainable Nanomaterials of the Institute for Materials Chemistry at the IFW Dresden offers a

PhD Candidate Position (m/f/div)

to be filled on a fixed-term basis for 36 months. The position is to be filled on a part-time basis (67%).

Main tasks:

Research in the field of reusability of nanomaterials and their electronic components within the framework of the Dresden Cluster of Excellence REC² – “Responsible Electronics in the Climate Change Era”

- Chemical synthesis of functional, semiconducting nanomaterials
- Processing of nanomaterials and fabrication of functional layers, heterostructures, and electronic devices, such as, for example, solar cells or photodetectors
- With a particular focus on the reuse and recycling of the nanomaterials, with the development of suitable methods for the controlled assembly and disassembly of nanomaterials while preserving their properties
- Spectroscopic, microscopic, structural, and electrical characterization of the nanomaterials, their layers, and fabricated devices

Your profile:

- completed degree in chemistry, physics, materials science (or a comparable field)
- Ideally, experience in the synthesis and characterization of low-dimensional nanomaterials
- Ideally, experience in electronic components, the reuse or recycling of functional materials
- Interest and Motivation to conduct innovative research for a sustainable future and active participation in the Cluster of Excellence REC²
- Good written and spoken English skills
- High personal motivation to pursue a doctorate as a personal qualification within the framework of part-time employment



What we offer:

- Great working atmosphere in an interdisciplinary, young team
- State-of-the-art research infrastructure for cutting-edge research in the field of materials development and synthesis
- room for collaboration in the innovative and interdisciplinary Cluster of Excellence REC² at TU Dresden
- a modern, well-equipped workplace on the campus of the Technische Universität Dresden,
- flexible, family-friendly working hours,
- 30 days of vacation per year,
- Company pension scheme (VBL),
- Benefits for job ticket/Germany ticket,
- Special annual payment,
- Capital-forming benefits,
- Company health management (back training, health day with various offers),
- discounted sports offers from the Dresden University Sports Center,
- Job-related further training opportunities and language courses,
- Company restaurant with a variety of breakfast and lunch dishes.
- a future-oriented environment with a workplace with modern research infrastructure,
- working with international and interdisciplinary scientists from different fields,
- working on current research fields.

The contract of employment, including remuneration, is based on the collective bargaining law for the public service of the federal states, TV-L EG 13.

Notes on the application:

In line with our commitment to diversity, we encourage qualified women to apply, as we aim to increase female representation in the field of science. Applications from people with severe disabilities and those treated as such within the meaning of Section 2(3) of SGB IX are ex-pressly encouraged. Proof of this status must be included with the application documents.

If you are interested in the position, please send your application including a CV and the list of publications, a motivation letter describing the research career goals, skills and experience, copies of certificates citing the **reference number 037-26-3400** as a single pdf file (other formats will not be accepted) no later than **01.06.2026** to

bewerbung@ifw-dresden.de.

Please contact Dr. Fabian Paulus (f.paulus@ifw-dresden.de) for more information.