

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®](http://www.ifw-dresden.de). Further information at: <http://www.ifw-dresden.de>.



The Institute for Institute for Materials Chemistry (IMC) and the Institute for Emerging Electronic Technologies (IET) are offering at the IFW Dresden a position as

Research Assistant (Postdoctoral Fellow) (m/f/div)

starting on 01 March 2026 for a fixed term of 12 months. The position is preferably full-time, but part-time work is possible by arrangement.

Main tasks:

Research and independent project development in the field of deposition of low-dimensional nanomaterials using a novel aerosol printing process

- Deposition of low-dimensional nanomaterials using an aerosol-based printing process, with aerosol generation being carried out using IFW's proprietary aerosol printing technology
- Preparative production of the corresponding printable nanomaterial dispersions (inks) in organic solvents
- Comprehensive spectroscopic, microscopic, and structural characterization of the printed layers and materials
- Spectroscopic, microscopic, and structural characterization of the deposited layers
- Process optimization of ink production and printing parameters with regard to maintaining the optical, structural, and electronic properties of the nanomaterials to be printed.

Your profile:

- You have completed a degree in chemistry, materials science, chemical engineering (or a comparable degree).
- Completed PhD in one of the above-mentioned fields with a good to very good grade



- Experience in the deposition, processing, and characterization of low-dimensional nano-materials and their properties
- Ideally, experience in material printing (aerosol jet printing or other technologies)
- Prior knowledge of surface acoustic waves (SAW) is advantageous
- Ideally, prior experience in grant applications for externally funded or grant-funded projects
- Competitive profile and high personal motivation
- Good written and spoken English skills

What we offer:

- a modern, well-equipped workplace on the campus of the Technische Universität Dresden,
- flexible, family-friendly working hours,
- 30 days 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 employment relationship, including the salary is according to the German tariff TV-L and is task-related up to pay group 13 TV-L.

Notes on the application:

IFW Dresden strives for a balanced gender ratio in all areas. In science, IFW Dresden would like to increase the proportion of women and therefore explicitly invites suitably qualified female scientists to apply. Applications from severely disabled individuals and those with equal status according to § 2 paragraph 3 SGB IX are explicitly welcomed. A corresponding proof 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 016-26-3400** as a single PDF file (other formats will not be accepted) no later than **06.02.2026** to

bewerbung@ifw-dresden.de

Please contact Dr. Fabian Paulus (f.paulus@ifw-dresden.de) and Dr. Andreas Winkler (a.winkler@ifw-dresden.de) for more information.