



Leibniz-Institut  
für Festkörper- und  
Werkstoffforschung  
Dresden



The Leibniz Institute for Solid State and Materials Research (IFW) Dresden offers from now on the possibility to work on a

### **Bachelor-/Masterthesis/SHK/WHK**

in the Advanced Methods of Electron Microscopy group.

We explore electron-matter interaction at the nanoscale in the electron microscope by developing and applying novel in-situ, holography, tomography, spectroscopy techniques as well as electron optical setups in the TEM. The range of questions includes the solution of phase problems by means of electron holography, the investigation of collective electronic excitations (e.g. plasmons, excitons), the analysis of local electrical, magnetic and mechanical fields in, e.g., semiconductor devices, nanomagnets, superconductors, organic materials, 2D materials and interfaces thereof.

As an applicant, you get trained in the various techniques and get involved in our projects. Advantageous are first experiences in microscopy and experimentation. The ability to work in a team and the willingness to conscientious and careful work are required. In the context of employment as a student assistant compensation is possible. If you are interested or have questions, please contact Dr. Axel Lubk ([a.lubk@ifw-dresden.de](mailto:a.lubk@ifw-dresden.de))