

The Leibniz Institute for Solid State and Materials Research Dresden – in short IFW Dresden – is a non-university research institute and a member of the Leibniz Association. The IFW employs approximately 600 people and one focus is on the training of young scientists besides enhancing fundamental and applied research development. At the highest international level, the IFW operates modern materials science on a scientific basis and makes the obtained results useful for the economy. The complex and interdisciplinary research work is carried out within the IFW by five scientific institutes, which are supported by a highly developed technical infrastructure. The IFW supports its employees in reconciling work and family life and regularly submits to the berufundfamilie® audit.

Further information at: <http://www.ifw-dresden.de>

## Postdoctoral Researcher (m/f/d)

Characterization of Thermoelectric Materials by Electron Microscopy

We are searching for a Postdoctoral Researcher (m/f/d) at the Institute for Metallic Materials (IMW) at the Leibniz Institute for Solid State and Materials Research (IFW Dresden) focusing on the structural and chemical analysis of nanostructured thermoelectric materials which will be used for energy harvesting and thermal management in microstructured thermoelectric devices.

We offer collaboration with various research teams working on energy materials and devices: Nanograined Bulk Thermoelectric Materials (Dr. Ran He), Microstructured Thermoelectric Devices (Dr. Heiko Reith), Fundamental Transport in Thermoelectric and Topological Materials (Dr. Nicolas Perez), Magneto-caloric Materials (Dr. Sebastian Fähler) and Hard Magnetic Materials (Dr. Thomas Woodcock). In the future, she or he should give significant contributions to at least one of the following research activities: (a) TEM characterization of TE materials and nanograined topological insulators, (b) in-situ characterization and synthesis of thin films and nanograined materials, or (c) advanced characterization by scanning electron microscopy.

Therefore, we consider applicants (m/f/d) who have a profound knowledge in the characterization of nanostructured functional materials or thin films by electron microscopy or related methods, as well as a PhD in materials science, physical chemistry or solid-state physics. Experience as a postdoc at a research institution abroad and in the former supervision of students is beneficial for this position. Applicants having additional research experience in industry are encouraged to apply.

The young investigator (m/f/d) will manage the laboratory for electron microscopy at the IMW and will have the opportunity to build up a research team in order to expand the research profile of the Institute for Metallic Materials at the IFW Dresden.

### We offer:

The salary will be based upon the TV-L rules (TV-L E13, 100 %, part-time is possible). The first contract will be limited to 3 years, in which the young scientist (m/f/d) shall establish her/his own research activities, apply for additional third-party funded projects and contribute to research initiatives at the IFW Dresden. In case of a successful evaluation showing significant publications as well as a third party funded project, the young investigator will be promoted to a junior research group leader including a contract extension of up to 3 years. In this second phase, the focus will be on the further qualification of the junior group leader, which might lead to the habilitation and/or to the successful acquisition of an ERC Starting Grant or a comparable project.

The institute promotes the professional equality between all genders. In science, the IFW Dresden would like to increase the proportion of woman. Qualified women are therefore explicitly invited to apply. Equally qualified handicapped applicants will be given preference.

### Your application:

The application for this position should be submitted by **December 31, 2020** and should include a cover letter, CV, copies of the master and PhD certificates and a complete list of publications with the selection of 3 highlight publications (or the PhD thesis). Most importantly, a concept on the planned research activities should be included (2-4 pages).

Please send your application including relevant material quoting the reference number **004-21-2501** online as a single pdf-file (other formats will not be accepted) to:

[bewerbung@ifw-dresden.de](mailto:bewerbung@ifw-dresden.de)

If you have further questions on the position please contact: Prof. Kornelius Nielsch ([k.nielsch@ifw-dresden.de](mailto:k.nielsch@ifw-dresden.de)).