

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>.

PhD Position in the area of electrocaloric thin films (m/f/d)

The research group “Functional Oxides and Superconductors” of the Institute of Metallic Materials at the Leibniz Institute for Solid State and Materials Research Dresden (IFW Dresden) offers a PhD position in the field of ferroelectric epitaxial thin films.

The main emphasis of the work is to grow films by pulsed laser deposition and to develop new, direct methods for measuring the temperature change due to the electrocaloric effect in these films in order to compare the results with established indirect characterization routines. The PhD project is part of a DFG funded project in collaboration with a research group at the Leibniz-Institute for Crystal Growth Berlin.

Your Profile:

Potential candidates should hold a Masters or Diploma degree in Physics or Materials Science and must show strong knowledge in solid state physics and experimental research. Preferably, the applicant has also experience in one or more of the following topics:

- thin film deposition techniques,
- epitaxial growth,
- ferroelectric materials,
- microstructuring of films,
- structural characterisation with X-ray and electron beam techniques,
- ferroelectric measurements.

We are looking for a candidate with pronounced initiative, creativity, ability to work effectively in a team, as well as fluency of written and spoken English.

We offer:

The salary will be based upon the TV-L rules (TV-L E13, 65 %). The contract will be limited to 12 month and will start on 1st February 2021. An extension by another 2 years is intended upon a successful mid-term evaluation. PhD candidates are facilitated to participate in the PhD program to successfully complete their dissertation. We offer an attractive work place with excellent facilities and environment in Dresden.

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 (m/f/d) will be given preference.

If you are interested in the position, please send your application including a CV, a motivation letter describing the research career goals, skills and experience, copies of certificates citing the **reference number 005-21-2105** as a single pdf file (other formats will not be accepted) to the following email-address:

bewerbung@ifw-dresden.de.

The application for this position should be submitted by **December 15, 2020**.

If you have further questions on the position please contact: Dr. Ruben Hühne (r.huehne@ifw-dresden.de).