



Leibniz-Institut
für Festkörper- und
Werkstoffforschung
Dresden



The Leibniz-Institut für Festkörper- und Werkstoffforschung Dresden e.V. (IFW) is a legally and economically independent research institution and a member of the Leibniz Association. The five institutes of the IFW operate in a joint research programme (in four fields: functional materials, quantum materials, nanoscale materials, towards products) and have the level of equipment, which befits an internationally leading research facility.

PhD-Position in Theoretical Solid State Physics

The Institute for Theoretical Solid State Physics, IFW Dresden, is currently looking for an excellent student to fill a Doctoral Researcher Position in theoretical prediction of new Weyl semimetal materials from 1st January 2017.

The aim of the doctoral research will be prediction of new materials with topological states, calculation of band structure and topological invariants from first principles, properties of edge-states in new Weyl and Dirac semimetals. The research will be carried out in an international collaborative environment with strong interaction with the crystal growth group.

We offer an attractive work place with excellent research facilities and a family-friendly environment in Dresden. The employment contract is limited to 36 months. The remuneration is based upon the TV-L rules (EG 13, TV-L, 50%).

We expect from the successful candidate a Master's degree in Physics (a background in Theoretical Solid State Physics, experience in DFT calculations is beneficial) as well as high motivation, creativity, and interest in shaping his/her own thesis project. Very good communication skills in English are a further expectation.

The institute is keen to foster the professional equality of woman and men, and thus welcomes applications from qualified women.

Applications should contain a CV, a motivation letter describing the research career goals, skills and experience, copies of all certificates and names and contact details of two references.

Please send your application citing the reference number **DM51-1/16** not later than **November 30, 2016** as a single pdf-file to: bewerbung@ifw-dresden.de.

Alternatively hard copies can be sent to: Leibniz-Institut für Festkörper- und Werkstoffforschung Dresden e.V., Personalabteilung, Postfach 270116, 01171 Dresden.

For further information please contact: Dr. D. Efremov: d.efremov@ifw-dresden.de.