

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>.

The Institute for Solid State Research at the IFW Dresden offers in the field of Surface Dynamics a position as

Doctoral Researcher (m/f/d)

starting as soon as possible.

We are considering applicants (m/f/d) who have a master degree or diploma in physics, electrical engineering or mechanical engineering as well as a good knowledge and ideally first experience in the fields:

- fluid mechanics, microfluidics
- microacoustics or MEMS, especially surface acoustic wave (SAW) technology
- radio frequency measurement technology
- simulations based on MATLAB, COMSOL or similar.

We expect good communication skills in written and spoken English. Professional working style as well as capacity for teamwork and personal motivation are required.

The work comprises experimental and theoretical investigations on SAW-based actuators to get deeper understanding of mechanisms and effects governing two-dimensional focusing of particles as well as heating in microfluidic setups. The project focus offers very good conditions for a doctorate. In addition, the internal doctoral program ensures intensive scientific supervision and the swift implementation of the doctoral project.

For further information please contact Dr. Hagen Schmidt (h.schmidt@ifw-dresden.de).

The employment contract can start as soon as possible and will end latest after three years. The salary is based upon the TV-L rules (EG 13; part-time 50% for Doctoral Researcher (m/f/d)).

The IFW would like to increase the proportion of women in science. Qualified women are therefore explicitly invited to apply. Severely disabled applicants (m/f/d) are given preferential treatment if they have the same qualifications.

If you are interested in the position, please send your application (in English) including a CV, a motivation letter describing the research career goals, skills and experience, copies of certificates and recommendation letters citing the reference number DM1001-4/19 not later than 30th of April 2019 as a single pdf file (other formats will not be accepted) exclusively to:

bewerbung@ifw-dresden.de.