

The Leibniz Institute for Solid State and Materials Research Dresden e. V. (IFW Dresden) conducts modern materials research on a scientific basis for the development of new and sustainable materials and technologies. The institute employs an average of 500 people from over 40 nations and, in addition to its scientific tasks, is dedicated to promoting young scientists and engineers. Further information at: <http://www.ifw-dresden.de>.

## PhD-Position (m/f/d)

### Imprinting magnetic textures by geometrical transformation

The Institute for Integrative Nanosciences (IIN) - of the Leibniz Institute for Solid State and Materials Research - IFW Dresden - is looking for a highly motivated early stage researcher (m/f/d) to join as PhD student/doctoral student (m/f/d) from 01.09.2022.

#### **Your main tasks:**

Within the IFW excellence project „Imprinted magnetic textures" your research task will comprise the creation of magnetic textures on rolled-up polymeric membranes via lithography and sputtering and will include the detailed analysis of static and dynamic magnetic properties by magneto-optics, magnetic force microscopy and ferromagnetic resonance. In collaboration with physicists and material scientists, you will explore a novel approach for tailoring the configuration of magnetic domain walls with an emphasis on the dynamic susceptibility, and together with colleagues from chemistry, you will exploit the stray field landscape in advanced electrochemical deposition techniques.

#### **Your profile:**

Candidates (m/f/d) with a strong background and successful Diploma or Master in the area of physics, materials science or electrical engineering are encouraged to apply. Knowledge in magnetisms, magnetic materials and thin film technology, and proven skills in experimental work are desired. Knowledge on high frequency electronics and lithography is appreciated. High readiness for collaboration in an interdisciplinary and international team is expected

#### **What we offer:**

The salary will be based upon the TV-L rules (TV-L E13, 50 %). The contract will be limited to 1 year with the possibility of extension for two more years.

The institute promotes the professional equality between all genders. 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 or German) including a cover letter with CV and copies of certificates and other relevant material (if applicable) as a single pdf file (other formats will not be accepted) citing the **reference number 043-22-4210** to the following email-address:

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

The position is open as long as the announcement is online.

If you have further questions on the position, please contact

Dr. Volker Neu ([v.neu@ifw-dresden.de](mailto:v.neu@ifw-dresden.de)) or Dr. Ivan Soldatov ([i.soldatov@ifw-dresden.de](mailto:i.soldatov@ifw-dresden.de)).

