

The Chemnitz University of Technology is an established innovative scientific and educational institution, which takes on the challenges connected with the competition between the universities. The Chemnitz University of Technology offers attractive employment for personalities with proven scientific excellence who want to contribute to the further innovative development.

The Faculty of natural sciences, Professorship Magnetic Functional Materials offers an employment, at the earliest opportunity for a

### **Researcher**

(50 %, E13 TV-L)

The fixed term position for 1 year (extendable to 3-4 years) follows the Act of Temporary Employment in Higher Education (WissZeitVG) and the Saxon Law on Universities (SächsHSFG). Selection will occur according to suitability, qualification and professional performance. Chemnitz University of Technology aims to particularly support women and therefore explicitly asks for applications from qualified female candidates. Severely disabled persons or those with an equivalent status will be considered preferentially in accordance with SGB IX. The workplace is also suitable for part-time work. In the case of corresponding applications, it will be examined whether the part-time wishes can be fulfilled within the scope of the employment opportunities.

#### **Your tasks comprise**

- Cross-working group project and study (professorships: Hellwig, Salvan, Tegenkamp) of interfacial interactions between chiral molecule structures and functional magnetic thin film substrates via spin-polarized electrons (chiral induced spin selectivity (CISS) effect and magnetism induced by proximity of adsorbed chiral molecules (MIPAC) effect)
- Discussion and interpretation of the results
- Publication of the scientific results in peer-reviewed journals
- Preparation and successful completion of a PhD thesis
- Support in student teaching

The position aims at your further scientific development, for which you publish your scientific results, teach and acquire third party funding. If you want to join our interdisciplinary and highly motivated team, you should bring along the following qualifications and traits:

- An undergraduate academic degree (or an equivalent degree) in the field of physics, material science or in a related field, which opens up access to the corresponding qualification level
- Motivation to do scientific research on a complex topic in a cross-working group environment
- Systematic and logic approach to experimental work and scientific problems
- Excellent knowledge of the English language in reading, writing and speaking
- Commitment and discipline to complete a PhD thesis in 3-4 years
- Pre-knowledge in multiple of the following topics and characterization techniques is highly desired: magnetism, thin films, sputter deposition, x-ray reflectivity and diffraction, magnetometry, ellipsometry, magnto-optics, atomic force microscopy and scanning tunnelling microscopy.

Applicants have to fulfil the precondition of employment according to §71 SächsHSFG.

Please send your full application, either electronically as a single PDF file by e-mail, or by ordinary mail **before 15.5.2020** using the reference number »CISSandMIPAC« to the address below. Please do not send original documents, since applications will not be sent back but discarded according to data handling regulations. If you wish your application materials to be sent back to you, please enclose a prepaid and correctly addressed envelope.



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CHEMNITZ

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You can find all the information and processing personal data on [https://www.tu-chemnitz.de/verwaltung/personal/public/Datenschutz/dse\\_dp.html](https://www.tu-chemnitz.de/verwaltung/personal/public/Datenschutz/dse_dp.html).