

Helmholtz-Zentrum Dresden-Rossendorf e.V.



With cutting-edge research in the fields of ENERGY, HEALTH and MATTER, around 1,500 employees from more than 70 nations at Helmholtz-Zentrum Dresden-Rossendorf (HZDR) are committed to mastering the great challenges facing society today. The Institute for Ion Beam Physics and Materials Research is dedicated to the study of materials and their nanostructures that can be considered for future applications in information technology and are based on electrical, magnetic or optical functionalities. The Department of Magnetism is looking for a PhD Student (f/m/d) on Charge-to-Spin Interconversion and Magnetotransport in Altermagnetic Thin Films.

PhD Student (f/m/d) on Charge-to-Spin Interconversion and Magnetotransport in Altermagnetic Thin Films

City: Dresden; Starting date (earliest): 01/01/27; Duration: 3 years; Remuneration: TVöD Bund; Reference number: 2026/124; Closing date: 15/11/26

Tasks

- Deposition and optimization of high-quality altermagnetic thin films and heterostructures
- Structural and magnetic characterization
- Investigation of magnetotransport phenomena and charge-to-spin interconversion
- Exploration of the fundamental spintronic properties of altermagnetic materials

Requirements

- Completed university studies (Master/Diploma) in the field of experimental physics or related field
- Background in electric transport and magnetism
- Knowledge in thin film preparation and characterization techniques
- A collaborative mindset and enthusiasm for working in an international research team
- Proficiency in German and English

What we offer

- A vibrant research community in an open, diverse and international work environment
- Scientific excellence and extensive professional networking opportunities
- A structured PhD program with a comprehensive range of continuing education and networking opportunities - more information about the PhD program at the HZDR
- Salary and social benefits in accordance with the collective agreement for the public sector (TVöD-Bund) including 30 days of paid holiday leave, company pension scheme (VBL)

- Depending on the personal qualifications, the candidate may be classified in salary group 13 according to TVöD-Bund
- We support a good work-life balance with the possibility of part-time employment, mobile working and flexible working hours
- Numerous company health management offerings
- Employee discounts with well-known providers via the platform Corporate Benefits
- An employer subsidy for the "Deutschland-Ticket Jobticket"

Application

We look forward to receiving your application documents (including cover letter, CV, diplomas/transcripts, etc.), which you can submit via our online-application-system: <https://www.hzdr.de/db/Cms?pNid=490&pLang=en&pOid=78959>

More information at <https://stellenticket.de/207880/TUD/>
Offer visible until 11/11/26

