

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 Quantum Technologies is looking for a

PhD Student (f/m/d) - Imaging magnetic structures in a quantum microscope

City: Dresden; Starting date (earliest): At the earliest possible; Duration: 3 Years;
Remuneration: TVöD-Bund; Reference number: 2025/135; Closing date: 07/11/25

Working field

- Planning and execution of optically-detected magnetic resonance experiments with diamond
- Analysis and modelling of the experimental data
- Carrying out literature research
- Publication and presentation of scientific results

Requirements

- Completed university studies (Master/Diploma) in the field of Physics, Engineering Physics or related field
- Very good experimental skills
- Excellent communication skills and willingness to work in an interdisciplinary environment
- Excellent written and spoken English skills

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 can be found [here](#)
- 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)
- 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=75812>

More information at <https://stellenticket.de/198805/TUBS/>
Offer visible until 07/11/25

