

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 Center for Advanced Systems Understanding (CASUS) is a German-Polish research center for data-intensive digital systems research. The Department of Theoretical Chemistry is looking for a PhD Student (f/m/d) in theoretical chemistry of 2D materials and their heterostructures.

PhD Student (f/m/d) in theoretical chemistry of 2D materials and their heterostructures

City: Dresden; Starting Date: 01/11/25; Duration: 30.06.2028; Remuneration: TVöD-Bund; Reference number: 2024/161; Closing date: 13/01/25

Working field

- Simulations of optoelectronic properties of 2D heterostructures of transition-metal dichalcogenides
- Preparation of training sets for machine learning of interatomic potentials
- Analysis of results and dissemination as publications and on conferences/workshops/schools
- Help in teaching duties (10% of work)

Requirements

- Completed university studies (Master/Diploma) in the field of Chemistry, Physics or Materials science or related field
- Knowledge of quantum-mechanical simulations using standard DFT-based codes
- Skills in 2D materials field
- Programming using Python or alike desirable
- Team player, adaptation in international community
- Very good English (speaking, listening, and writing)

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=73164>

More information at <https://stellenticket.de/190374/>
Offer visible until 13/01/25

