

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. CASUS is looking for a

Postdoc (f/m/d) Materials informatics researcher.

City: Görlitz; Starting date (earliest): 01/10/25; Duration: two years; Remuneration: TVöD Bund; Reference number: 2025/99; Closing date: 28/08/25

Working field

- Design and train machine learning models to predict materials properties
- Develop and utilize automated computational workflows
- Analyze and interpret simulation data
- Collaborate with interdisciplinary teams, including experimental partners
- Present findings at scientific conferences and workshops
- Supervise and mentor junior members of the group

Requirements

- Completed university studies (PhD) in the field of Computer Science, Physics, Chemistry, or a related field
- Experience with Density Functional Theory, molecular dynamics, or Monte Carlo simulations
- Proficiency in machine learning techniques and data analysis
- Proficiency in Python and scientific computing libraries
- Experience with Linux, Git, and collaborative software development tools
- Knowledge of web design or experience creating scientific websites is a plus
- Ability to work independently and collaboratively in an interdisciplinary environment
- Excellent communication skills in English in a professional context

What we offer

- A vibrant research community in an open, diverse and international work environment
- Scientific excellence and extensive professional networking opportunities
- 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=75298>

More information at <https://stellenticket.de/196496/HTWB/>
Offer visible until 21/08/25

