

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. At the Helmholtz Institute Freiberg for Resource Technology (HIF), innovative technologies for the circular economy are developed to provide and use mineral and metal-bearing raw materials more efficiently and to recycle them in an environmentally friendly way. The Group Sensors is looking for an Engineer (f/m/d) for robotics and sensor integration.

Engineer (f/m/d) for robotics and sensor integration

City: Freiberg; Starting date (earliest): 01/09/26; Duration: 31.05.2029;

Remuneration: TVöD-Bund: EG 11; Reference number: 2026/84; Closing date: 16/07/26

Tasks

- Develop and program operation routines for robotic arms
- Design and implement solutions for sensor systems that include robotic arms
- Develop software solutions for automating processes
- Support experiments, trouble shooting and optimisation of sensor systems with focus on robotic arms
- Supporting the development of data processing workflows and sensor communication protocols
- Discussions and presentations of results and achievements

Requirements

- Completed university studies (Bachelor/Master/Diploma) with experience in Engineering or similar
- Expertise in information technology, software engineering, robotics and autonomous systems and related fields
- Background with optical imaging sensors, esp. hyperspectral sensors, and sensor integration
- In particular, experience in application-oriented programming, esp. robots (e.g. robotic arms), using C++, Python and robot-programming languages such as KRL
- High motivation to learn and find solutions for upcoming challenges
- Good communication skills and capability to work in international teams
- Good language skills in English and German, both written and spoken

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)
- Depending on the personal qualifications, the candidate may be classified in salary group 11 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-applicationsystem: <https://www.hzdr.de/db/Cms?pNid=490&pLang=en&pOid=77939>

More information at <https://stellenticket.de/205085/TUD/>
Offer visible until 16/07/26

