

## **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 Institute of Radiopharmaceutical Cancer Research scientists (f/m/d) from the fields of physics, chemistry, biology, pharmacy, immunology, medicine and IT develop innovative radiopharmaceuticals and novel tools for functional characterization, improved imaging and personalized treatment of tumors. The Department of Life Science Nanomicrosystems is looking for a PhD Student (f/m/d).

### **PhD Student (f/m/d)**

It is a position for Doctoral Candidates within HORIZON – MSCA – 2023 – DN “STRIM: Scientific Training for Post-Translational Modification Detection in Cancer Screening”. The topic is: Portable FET biosensor platform for NP-amplified multiplexed DNA sensing.

City: Dresden; Starting Date: 01/04/25; Remuneration: TVöD-Bund; Reference number: 2024/158; Closing date: 02/01/25

### **Working field**

- Main goal is to develop novel FET-based electronic measurements system for real-time potentiometric and amperometric DNA detection
- Important milestone is the establishing of the bioreceptor functionalization, calibration and measurement formats for detection of methylated DNA of interest, using both, traditional molecular and nanoparticles-amplified formats
- Development of a demonstrator of the measurements system, enabling up to 100 pads monitored at the same time is expected

### **Requirements**

- Completed university studies (Master/Diploma) in the field of Electrical Engineering and Computing, Materials Engineering, Nanoelectronics or related field
- Specialization in Electrochemistry, Nanotechnology, etc. is a plus
- Practical experiences in one or more of the following subjects are beneficial: microfabrication, functionalization
- Ability of working in a team as well as independent work
- Fluent 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 at the homepage
- 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=73147>

Weitere Informationen unter <https://stellenticket.de/190372/>  
Angebot sichtbar bis 02.01.2025

