

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 circulareconomy are developed to provide and use mineral and metal-bearing rawmaterials more efficiently and to recycle them in an environmentally friendly way. "The Metallophore group in the Biotechnology department is looking for a PhD student (f/m/d) Bioproduction and purification of the siderophores subject to the pending project approval."

PhD Student (f/m/d) Bioproduction and purification of the siderophores

City: Dresden; Starting date (earliest): 01/09/25; Remuneration: TVöD-Bund; Reference number: 2025/86; Closing date: 30/06/25

Working field

- Production and purification of desferrioxamine B (DFOB), desferrioxamine E (DFOE), bisucaberin (Bis) and other siderophores using native production, genetically modified organisms and cell-free processes for the production of siderophores with the aim of achieving the highest possible siderophore concentration in the titer
- Development of a scalable downstream process for the produced siderophores, in particular using two-phase aqueous extraction system

Requirements

- Completed university studies (Master) in the field of Biotechnology/Biology/Bioprocess engineering or related field
- Knowledge of genetic engineering, protein production and cell-free approach as well as bioprocess engineering, bioproduction, downstream processing and molecular biology
- Experience in bioreactor operation
- Basic knowledge of further processing
- Interest in working in an international team, enjoy teamwork, good time management and interest in applied research
- Fluency in written and spoken English

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=74913>

More information at <https://stellenticket.de/195274/LUH/>
Offer visible until 30/06/25

