

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 Institute of Resource Ecology performs research to protect humans and the environment from hazards caused by pollutants resulting from technical processes that produce energy and raw materials. The Department of Radiation Research on Biological Systems is looking for a

PhD Student (f/m/d) to investigate the impact of ionizing radiation on mammalian cells.

City: Dresden; Starting date (earliest): 15/10/25; Duration: 3 years; Remuneration: TVöD Bund; Reference number: 2025/102; Closing date: 31/08/25

Working field

- Cultivation of mammalian cells
- Biochemical as well as cell and molecular biological methods to study the interactions of alpha emitters with mammalian cells
- Characterization of the molecular species of the radionuclide in cellular compartments/cells using spectroscopic techniques (e.g., UV-Vis, Raman, X-ray absorption spectroscopy) and microscopic methods (e.g., electron microscopy)
- Writing scientific publications and presenting research results to scientific communities
- Mentoring student courses in Radiobiology or Radiochemistry

Requirements

- Completed university studies (Master/Diploma) in the field of Biochemistry, Biology, Pharmacy or Chemistry or related field
- Experience in experimental laboratory work
- Excellent knowledge of a broad range of biochemical, cell and molecular as well as analytical methods are an advantage
- Willingness to handle unsealed radioactive materials within a radiation-controlled laboratory environment
- Knowledge of handling radioactive materials and radiochemical methods is an advantage
- High motivation and initiative
- Ability to communicate and carry out work in an interdisciplinary research team (radiochemistry, biochemistry, biology, chemistry, medicine)
- Willingness to participate in scientific conferences, seminars and workshops
- Excellent written and verbal communication skills in 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=75321>

More information at <https://stellenticket.de/196600/TUBS/>
Offer visible until 24/08/25

