

Helmholtz-Zentrum Dresden-Rossendorf e.V.



HELMHOLTZ ZENTRUM
DRESDEN ROSSENDORF

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 Life Science Nanomicrosystems is looking for a

Postdoc (f/m/d) in the field of Functional Magnetic Nanomaterials for Cancer Diagnostics

The projects are embedded in a QuBiopsy consortium employing multimodal, multiscale imaging, integrating complementary quantum imaging techniques to enable precise detection of early cancer dissemination in complex biological environments. The projects rely on multidisciplinary scientific approaches combining cutting-edge quantum magnetometry with state-of-the-art translational biomedica.

City: Dresden; Starting date (earliest): 01/05/26; Remuneration: TVöD-Bund; Reference number: 2026/20; Closing date: 15/03/26

Tasks

- Formulating scientific objectives and hypotheses within the project
- Selection of the portfolio of the magnetic materials and synthesis strategies
- Continuous update on the scientific literature in the field of study
- Synthesis and specific functional modification of the nanoparticles
- Data recording and managing according to good scientific practice
- Evaluation and interpretation of the experimental results
- Building a collaboration within a consortium

Requirements

- Completed PhD in the field of biomedical engineering, biophysics, biochemistry, nanoscience and nanotechnology or comparable natural sciences
- Relevant professional experience in the specified area
- Experience in the field of synthesis and biomedical applications of the magnetic nanomaterials, imaging, bioassays
- Motivation to engage in scientific research and method development
- Willingness to collaborate in interdisciplinary research teams
- Very good 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
- 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&pOid=76406&pContLang=en>

More information at <https://stellenticket.de/201072/TUB/>
Offer visible until 26/02/26

