

## **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 for Ion Beam Physics and Materials Research is dedicated to the study of materials and their nanostructures that can be considered for future applications in information technology and are based on electrical, magnetic or optical functionalities. The Group Ion Induced Nanostructures is looking for a Postdoc (f/m/d) Donor-spin-qubits in silicon.

### **Postdoc (f/m/d) Donor-spin-qubits in silicon**

City: Dresden; Starting Date: 01/05/25; Renumeration: TVöD-Bund; Reference number: 2025/26; Closing date: 28/02/25

#### **Working field**

- Atomic modification of silicon for quantum applications, including Isotope enrichment of silicon 28 using ion beams, Single ion implantation of donor atoms and strain engineering in silicon
- Operating focused ion beam and scanning electron microscopes
- Perform sample characterisation or organise it through 3rd parties by means of electron, ion, photon or scanning tip based methods
- Evaluation, interpretation and publication of scientific data
- Cooperation with partners in Germany and in other European countries
- Presentation of the research results on national and international meetings
- Co-supervision of PhD students working on sub-projects

#### **Requirements**

- Completed PhD in the field of Physics, Material Science, Natural Science or comparable
- Experiences in one or several of the following areas: Ion beam physics, focused ion beams, semiconductor technology, electron microscopy, vacuum, nanotechnology, quantum computing
- Very good English language skills (spoken and written)

## 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&pLang=en&pOid=73902>

More information at <https://stellenticket.de/191465/>  
Offer visible until 01/03/25

