

## **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 Radiation Physics conducts research for states of matter under extreme conditions and in very small dimensions. The Department HIBEF is looking for a Postdoc (f/m/d) Development of X-ray diagnostics at EuXFEL.

### **Postdoc (f/m/d) Development of X-ray diagnostics at EuXFEL**

City: Schenefeld; Starting Date: 01/05/25; Renumeration: TVöD-Bund; Reference number: 2024/168; Closing date: 19/12/24

#### **Working field**

- Development of an imaging concept for testing the feasibility of nano-accelerator concept
- Implementation and commissioning of the developed concepts at the HED-HIBEF instrument at EuXFEL
- Preparation and execution of experiments involving the ReLaX laser at EuXFEL
- Support of HED/HIBEF lead scientists in developing an experimental platform with focus on IFE related science
- Preparation of grant applications and community building focused on IFE research

#### **Requirements**

- Completed PhD in the field of Physics with focus on x-ray imaging on high energy density matter or comparable natural sciences
- Relevant professional experience in the specified area
- Phase contrast imaging and small angle scattering using hard x-ray radiation
- Coherent imaging x-ray
- Deep knowledge of laser plasma interaction by high intensity lasers
- Capability of execute and analyse plasma simulation by kinetic or hydro-dynamic codes
- Analysis and reconstruction of relevant plasma parameters from hard x-ray experimental data
- Execution of experiments at relevant facilities such as LCLS-MEC, SACLA, EuXFEL, preferentially as principal investigator
- Strong leadership in the field of x-ray applications for HED science, demonstrated by publication track record
- Strong international collaborations
- Very good knowledge of English

## What We Offer

- A vibrant research community in an open, diverse and international work environment
- Scientific excellence and extensive professional networking opportunities
- The employment contract is permanent with a six-month probationary period
- 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=73427>

Weitere Informationen unter <https://stellenticket.de/189635/>  
Angebot sichtbar bis 19.12.2024

