

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 Fluid Dynamics is conducting basic and applied research in the fields of thermo-fluid dynamics and magnetohydrodynamics in order to improve the sustainability, the energy efficiency and the safety of industrial processes. The Department of Department Fluid Dynamics Resource Technology Processes is looking for a

PhD Student (f/m/d) - Formation and transport of foams in the terrestrial water cycle.

The position will be offered subject to approval of project funding.

City: Dresden; Starting date (earliest): 01/04/26; Duration: 3 years; Remuneration: TVöD Bund; Reference number: 2025/171; Closing date: 28/02/26

Working field

- Collect water and foam samples from the Elbe catchment area to assess ecological status
- Measurement of foam properties in the presence of surface-active microorganisms
- Development of a transportable foam field-testing devices
- Publication of the results in scientific journals
- Participations at international conferences
- Strengthening research cooperation between Helmholtz centers

Requirements

Completed university studies -(Master/Diploma) in the field of engineering, physics, chemistry or related disciplines

- Enjoy experimental work in international and multidisciplinary teams
- Communicative, structured and target oriented way of working
- Knowledge of German or 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=76303>

More information at <https://stellenticket.de/200525/HTWB/>
Offer visible until 08/02/26

