

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 Center for Advanced Systems Understanding (CASUS) is a German-Polish research center for data-intensive digital systems research. The Department of Scientific Computing Core is looking for a Postdoc (f/m/d) Computational Ecologist/Species Distribution Modeller.

Postdoc (f/m/d) Computational Ecologist/Species Distribution Modeller

City: Dresden; Starting date (earliest): 01/05/25; Duration: 24 months;
Remuneration: TVöD-Bund; Reference number: 2025/045; Closing date: 24/03/25

Working field

- Conducting spatial distribution modelling of species and ecological/functional groups using biodiversity data provided by the Senckenberg Team
- Collating and preparing environmental data on climate, soil properties, land use and management from online sources and also make use of remote sensing data, where appropriate, as predictors in the models
- Assisting in and conducting the development of appropriate automated workflows from the different biotic and abiotic data sources to the model
- Develop species distribution models for different aspects of soil biodiversity developed with SMNG
- Assist in implementing such models and workflows at CASUS (Task Area 3)
- Present and publish results at scientific conferences and high impact peer-reviewed scientific journals

Requirements

-Completed university studies (PhD) in the field of Biostatistics, Ecology, Biology, Geoecology, Geography, Mathematics or related field

- Relevant professional experience in the specified area
- Sound knowledge in ecological niche modelling and modelling of spatial dynamics
- Experience in Bayesian hierarchical modelling
- Preferably knowledge in 'joint species distribution modelling (jSDM)' and ecological knowledge in at least one taxonomic group of soil
- Presented and published results at scientific conferences and high impact peer-reviewed scientific journals
- Advanced knowledge of scientific R and Git
- Communication skills in English and willingness to work in an interdisciplinary and international team

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=74301&pContLang=en>

More information at <https://stellenticket.de/192106/LUH/>
Offer visible until 22/03/25

