

Helmholtz-Zentrum Dresden-Rossendorf e.V.



Mit Spitzenforschung in den Bereichen ENERGIE, GESUNDHEIT und MATERIE lösen wir am Helmholtz-Zentrum Dresden-Rossendorf (HZDR) einige der drängenden gesellschaftlichen Herausforderungen unserer Zeit. Werden Sie Teil des HZDR-Teams und schließen Sie sich 1.500 Mitarbeitenden aus mehr als 70 Nationen an. Helfen Sie mit, Forschung für die nächsten Generationen auf das nächste Level zu heben!

Postdoc (f/m/d) Biodiversity Modelling

City: Dresden; Starting date (earliest): 01/05/25; Duration: 24 months;

Remuneration: TVöD-Bund; Reference number: 2025/038; Closing date: 05/03/25

Working field

- Determination of the most appropriate statistical algorithms for assigning soil fauna species to ecological groups
- Collation of available morphological and behavioural traits most appropriate for classifying species/taxa into such groups
- Construction of (together with Edaphobase developers) software routines to aggregate taxon-specific observational data into ecological groups at the (spatial) site level
 - Use of general dissimilarity models or similar algorithms to determine spatial changes in these groups as well as the environmental drivers of such changes
- Interpretation and assessment of the species distribution models developed in Task Area 1 to explain the spatial distribution of these ecological/functional groups in relation to major environmental conditions
- Working closely together with Task Area 3 to implement the developed statistical procedures in an automated, online soil-biodiversity assessment platform
- Preparation of project reports together with the partner institutions
- Representation and presentation of the project, i.e. at conferences, in scientific publications, etc.

Requirements

- Completed PhD in the field of Biodiversity Modelling, Macro-Ecology, Soil Ecology or related field
- Extensive experience in biodiversity (distribution) data analysis and modelling
- Experience in the species ecology and associating species to ecological or functional groups
- A knowledge of soil invertebrate fauna is advantageous
- Solid publication record and excellent written and oral presentation skills in English
- Willingness to travel (project meetings)
- Familiarity of and ability to work in an interdisciplinary and international team as

well as willingness and ability to assume responsibility

- Outstanding command of statistical programming languages (i.e. "R" and similar)

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=74112>

More information at <https://stellenticket.de/191716/TUBS/>
Offer visible until 05/03/25

