

Founded in 1607, Justus Liebig University Giessen (JLU) is a research university rich in tradition. Inspired by curiosity about the unknown, we enable around 28,000 students and 5,700 employees to advance science for society. Join us in breaking new ground and writing success stories - your own and those of our university.

Support us from 01.04.2023 in full-time as a

## **Postdoc (m/f/d) in the field of biodiversity data science/invasion ecology**

The position is part of the EU-funded project "B3: Building Biodiversity Blocks for Policy" and is limited until 30.04.2026 at the Department of Systematics & Biodiversity at the Faculty of Biology and Chemistry. The salary is in accordance with the collective labour agreement of the State of Hessen (E 13 TV-H).

The overall project goal is to make biodiversity data ready for policy and research across taxa and scales. The international consortium (including GBIF) from three continents will develop an IT infrastructure to transfer GBIF data into so-called data cubes, and to develop and provide ready-to-use biodiversity data products such as habitat suitability cubes, dissimilarity cubes and indicators of biodiversity change. This position is part of a work package on the development of indicators for biodiversity change and biological invasions.

### **Your tasks at a glance**

- Reviewing existing and developing new indicators (i.e., measures) of biodiversity change and biological invasions based on the data cubes provided by partners
- Analysing and identifying needs of international organisations and other stakeholders such as IPBES and CBD for biodiversity monitoring to tailor the development of indicators to their needs
- Developing and implementing workflows of indicator calculation in the statistical software environment R
- Documenting the processes of indicator development
- Developing case studies to showcase the application of indicators at global and continental scales
- Analysing trends of biodiversity change and biological invasions using the developed indicators
- Contributing and supporting the work of partners, working on e.g. automated species distribution modelling, development of dissimilarity cubes, case studies, dissemination and stakeholder engagement
- Writing reports and manuscripts

### **Your qualifications and competences**

- Completed PhD in ecology, biology, geography, biostatistics or related fields
- Strong skills in R programming, ideally including the development of reproducible workflows for data transformation
- Experiences in handling large data sets and biodiversity data (ideally GBIF data)
- Experiences in the development and application of biodiversity indicators and ecological modelling are helpful
- High motivation to learn working on software development within an international team
- High motivation to engage with an international team to co-develop workflows and products

### **Our offer to you**

- A stimulating working environment within an international research team
- A varied job with flexible working hours
- Free use of local public transport (LandesTicket Hessen)

- More than 100 training seminars, workshops and e-learning opportunities per year for personal development, as well as a wide range of health and sports activities
- Remuneration according to TV-H, company pension scheme, child allowance and special payments
- Good compatibility of family and career (certificate "audit familiengerechte hochschule")

If you have any further questions, please do not hesitate to contact Prof. Dr. Thomas Wilke by e-mail ([Tom.Wilke@allzool.bio.uni-giessen.de](mailto:Tom.Wilke@allzool.bio.uni-giessen.de)).

JLU aims to employ more women in academic research. We therefore particularly encourage female candidates to apply. JLU is regarded as a family-friendly university. Applicants with children are very welcome. Applications from disabled people of equal aptitude will be given preference.

You want to break new ground with us?

Apply via our [online form](#) by **February 21<sup>st</sup>, 2023**, indicating reference number 121/08. We look forward to receiving your application.