

The mission of the Leibniz Centre for Agricultural Landscape Research (ZALF) as a nationally and internationally active research institute is to deliver solutions for an ecologically, economically and socially sustainable agriculture – together with society. ZALF is a member of the Leibniz Association and is located in Müncheberg (approx. 35 minutes by regional train from Berlin-Lichtenberg). The institute also maintains locations in Dedelow and Paulinenaue.

The position will be located in the Research Platform “Data Analysis and Simulation” within the Working Group “Multi-Scale Modelling” under the project NEXT-Gen-EXPERT “Next-Generation Environmental and eXtended Tools for Extreme Events & Plant Resilience Assessment” aiming to develop advanced data workflows and algorithms for accessing benchmark dataset including climate data for agricultural research and other domains. The successful candidate will create automated dashboards for data processing, build APIs for natural language interfaces, and leverage large language models (LLMs) to enhance data accessibility for non-technical users.

We offer a full-time position (40 hours per week), limited for **24 months** at our location in **Müncheberg** as

## Postdoc (f/m/d) 87-2024

### Your tasks:

- development of data tools and algorithms for accessing dataset and visualization.
- developing an automated, dashboard for data extraction, data imputation and analysis
- large language models (LLMs) for natural language data query, facilitating data accessibility
- climate data dashboard with advanced extraction, analysis, and visualisation capabilities
- develop an application programming interface (API) for natural language interface for non-technical users to interact with the data repository
- implement LLM API for query processing, result generation and export in defined formats

### Your qualifications:

- PhD in environmental science, agronomy, biology, geography or data science
- experience in agricultural or environmental research is desirable
- expertise in big data integration
- strong experience with Python
- previous experience with systematic reviews and data analysis
- as an internationally research institution, located in Germany we require good to very good written and spoken English skills and the willingness to take part in further training as part of the language courses in German offered internally
- ability to work in a national team

### What we offer:

- an interdisciplinary working environment that encourages independence and self-reliance



- classification according to the collective agreement of the federal states (TV-L) up to EG 13 (including special annual payment)
- a collegial and open-minded working atmosphere in a dynamic research institution
- company ticket
- in-house language courses in German and English
- mobile working possible and flexible working hours, after consultation

Women are particularly encouraged to apply. Applications from severely disabled persons with equal qualifications are favored. The filling of the position in part-time is possible in principle. Please send your application preferably online (see button online application below). For e-mail applications, create a PDF document (one PDF file, max. 5 MB; packed PDF documents, archive files like zip, rar etc. Word documents cannot be processed and therefore cannot be considered!) with the usual documents, in particular CV, proof of qualification and certificates, stating the reference number **87-2024 until 10th October 2024** to (see button e-mail application below).

If you have any questions, please do not hesitate to contact us: **Dr. Amit Kumar Srivastava Tel. +49 (0) 33432 82 173.**

For cost reasons, application documents or extensive publications can only be returned if an adequately stamped envelope is attached. If you apply, we collect and process your personal data in accordance with Articles 5 and 6 of the EU GDPR only for the processing of your application and for purposes that result from possible future employment with the ZALF. Your data will be deleted after six months.

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