Job posting

**Type of position**

- [x] scientific
- [ ] administrative

**Target group**

- [x] graduates
- [x] post docs
- [ ] other

**Title**

Scientist (m/f/d) post-doc (100 %) for the research topic “Remote sensing analysis and spatial modelling of biodiversity in agricultural areas”

**Institution**

The Leibniz Institute for Agricultural Engineering and Bioeconomy is a pioneer and a driver of bioeconomy research. We create the scientific foundation to transform agricultural, food, industrial and energy systems into a comprehensive bio-based circular economy. We develop and integrate techniques, processes and management strategies, effectively converging technologies to intelligently crosslink highly diverse bioeconomic production systems and to control them in a knowledge-based, adaptive and largely automated manner. We conduct research in dialogue with society - knowledge-motivated and application-inspired.

**Position**

For the EU project „Advanced biodiversity monitoring for results-based and effective agricultural policy and transformation (BioMonitor4CAP)“ the following position is to be filled until February 15th, 2023 as

Scientist (m/f/d) post-doc (100 %) for the research topic “Remote sensing analysis and spatial modelling of biodiversity in agricultural areas”

Supporting the ambition of the European Commission for enhancing biodiversity of agricultural landscapes, advanced systems are required to monitor biodiversity features and their changes over time and in space. BioMonitor4CAP will assess, develop, test, validate, and support implementation of effective, affordable, and reliable methods, tools, and technologies to monitor in situ biodiversity of agricultural areas or farmland, considering spatio-temporal variabilities of above- and below-ground biodiversity across spatial and temporal scales and agro-ecological zones. The project will for the first time integrate traditional and new methods and technologies together to develop, validate, and demonstrate holistic approaches for systematic and near continuous monitoring of in situ biodiversity of agricultural areas.

The full-time position (100 %) is initially limited for 3 years for project-related reasons. The salary will be based on your
qualification and professional experience according to TV-L up to salary group 13.

Responsibilities
- Scientific implementation of the project focused on:
- Remote sensing data collection and analysis to evaluate efficacy of biodiversity monitoring
- Support in the design and validation of an agrobiodiversity monitoring system
- Implementation and management of site-specific biodiversity monitoring experiments and demonstration trials
- Establishment of a Geographic Information System with spatio-temporal indicators relevant to biodiversity management
- Documentation, evaluation and assessment of biodiversity monitoring data
- Communication and dissemination of findings to project partners
- Presentation of project results at scientific conferences
- Preparation of project reports and scientific publications

Requirements
- Very good university degree and PhD related to the analysis of high spatial resolution data (field scale) and remote sensing ideally related to biodiversity and agricultural sciences
- At least basic experience in the use of UAV up to 10 kg and possession of the EU certificate of competence A1/A3 (proof of completion of the online training)
- Knowledge of remote sensing analysis, statistical analysis of spatiotemporal data, and habitat modeling
- Experience with Geographic Information Systems and the R programming language
- Strong team work skills and ability to cooperate, reliability, flexibility, commitment and independence, self-responsible, experience in research transfer and interdisciplinary cooperation
- Fluent English proficiency and proven ability to write scientific publications
- Willingness to travel internationally according to project progress and requirements
- European Driving license class B required

We offer
- An attractive, interdisciplinary working environment in a team of experienced and young scientists and technicians
- Participation in an international EU project with 23 partners from different countries
- Excellent infrastructure for carrying out scientific work
- Attractive, interdisciplinary working environment and very good conditions for developing your scientific career
Family-friendly working conditions that promote the compatibility of work and family life

Company-owned electric bicycles and business cars for work trips

Participation on the VBB company ticket

Our institute is located on the edge of a picturesque park-like landscape and is easy to reach by public transport or by bike

Application procedure (deadline etc.)

If you would like to contribute your professional competence to our interdisciplinary research, please apply by the following deadline December 31st, 2022 using ATB’s online application form for the job advertisement, code 2022-4-19, at https://www.atb-potsdam.de/en/career/vacancies. Applications received after the application deadline cannot be considered.

Equality of opportunity is part of our personnel policy. Disabled applicants with adequate qualification will be preferentially considered.

By submitting an application, you agree that your job application documents will be stored for a period of six months, even in the case of an unsuccessful application. Further information on the processing, storage and protection of your personal data can be found at https://www.atb-potsdam.de/en/services/data-protection-declaration-for-the-application-process.

Contact

For further information please contact Dr. Michael Schirrmann (Tel. 0331/5699-417, e-mail: mschirrmann@atb-potsdam.de) or visit our website www.atb-potsdam.de.