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). It also maintains a research station with further locations in Dedelow and Paulinenaue.

The research project DAKIS (Digital Agricultural Knowledge and Information System) is funded under the umbrella of the BMBF "Agricultural systems of the future" programme, where blue sky research is fostered to find the ideal form of agriculture for the future conditions in Germany, anticipating recent developments in agricultural technology, digitalisation and societal change. Our vision is that agricultural systems of the future can be spatially differentiated and functionally diversified by automated small-scale production systems, and tailored to society's needs for marketable goods as well as non-marketable goods through new, innovative information and management systems. In order to achieve this overall concept, two test landscapes were selected to conduct case studies. The project has recently started, with a prospect of 5 years.

We are offering a full-time position (100% of the regular weekly working time) temporally limited for 42 months at our location in Müncheberg for a

Post-Doc Scientist (m/f/d) for modelling crop pests dynamics

Task description:

The successful candidate will investigate the role of crop-damaging insects and their specific predators in landscape-scale yield losses and predict the damage of crops from the habitat structure and characteristics. This task includes the monitoring of model species in fields and adjacent habitats (e.g. forest, small water bodies) and the modelling of life cycle, movement and crop impact by combining current approaches of process-based agro-ecosystem modelling, movement ecology and epidemiological modelling. The aim of this task is to increase the understanding of how agricultural landscapes can be managed to increase insect-related ecosystem services.

Your qualifications:

- Doctoral degree in biology, agroecology, or geoecology
- Proven knowledge of simulation modelling in movement ecology or epidemiological modelling
- Knowledge of species
- Experience in programming and in interdisciplinary cooperation
- Strong interest in scientific writing and excellent command of English

We offer:

- An interdisciplinary working environment that encourages independence and self-reliance
- Classification according to the collective agreement of the federal states (TV-L) 13 (including special annual payment)
- A collegial and open-minded working atmosphere in a dynamic research institution

Women are particularly encouraged to apply. Applications from severely disabled persons with equal qualifications are favored. Please send your application preferably by e-mail (one PDF file, max. 5 MB) with the usual documents, in particular CV, proof of qualification and certificates, stating the reference number **92-2019** until **31.10.2019** to: **Bewerbungen@zalf.de**.

If you have any questions, please do not hesitate to contact us: Dr. Claas Nendel, Tel. +49 (0) 33432/82-355, nendel@zalf.de