The mission of the Leibniz Centre for Agricultural Landscape Research (ZALF) as a nationally and internationally active research institute is to scientifically explain causal relationships in agricultural landscapes and to provide society with a knowledge base for the sustainable use of agricultural landscapes through excellent research. 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 overall goal of the Integrated Priority Project (IPP) “Towards a better understanding and modelling the interactions between water and carbon dynamics at agricultural used wetlands” founded by ZALF is the improved understanding of the water and carbon cycle and their interaction at shallow groundwater sites. To record the processes involved in the water and material cycle, we combine modern weighable groundwater lysimeters with automatic chamber systems to measure CO2 exchange under defined hydrological and geochemical boundary conditions. We want to investigate what contribution such a methodical approach can deliver for the clarification, quantification and more precise modelling of the interactions between water, carbon cycles in agricultural used shallow groundwater sites. Results should improve the simulation performance of models and the assessment of future climate change scenarios. They contribute to the development of measures to further reduce GHG emissions and negative impacts on ecosystem services of sensitive lowland regions.

We are offering a part-time position (65% of the regular weekly working time), limited to a maximum of 36 months, at our location in Müncheberg as

**Research Associate/PhD position (m/f/d)**

**Your tasks:**

- Conducting hydraulic and geochemical investigations as part of a newly designed model experiment to elucidate the interactions between the water, carbon and nitrogen cycles at a grassland site with shallow groundwater (Brandenburg/Spreewald)
- Measurement and analysis of hydraulic and geochemical parameters in a groundwater lysimeter
- Temporal high-resolution modelling of the water balance in a groundwater lysimeter
- Geochemical analysis of the measured seepage profiles and reactive modelling of turnover processes in the saturated and unsaturated zone
- Independent preparation of scientific publications based on the results of the model experiment, participation in project workshops, presentation of the results at scientific conferences

**Your qualifications:**

- Master degree in hydrogeology, geoecology, hydrology, geography or related disciplines
- Ideal applicants should have solid knowledge in hydraulics and geochemistry as well as modelling experience, e.g. as part of a master’s thesis or by corresponding specialization during their studies
- Expertise and experience in the field of field measurement data acquisition, processing, preparation and storage as well as data preparation and visualization
- Strong organisational skills and sense of responsibility
- be fluent in English (oral and written)
- Driving license class B and driving experience

**We offer:**

- An interdisciplinary working environment that encourages independence and self-reliance
- Salary is graded to level 13 according to the collective agreement of the federal states (TV-L)
- A collegial and stimulating working atmosphere in a dynamic research institution
- The opportunity for further qualification (postgraduate, PhD)
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 33-2020 until May 17, 2020 to: Bewerbungen@zalf.de.

If you have any questions, please do not hesitate to contact us: Prof. Dr. Christoph Merz, e-mail: cmerz@zalf.de, Tel. 033432/82-302 and Dr. Ottfried Dietrich, e-mail: odietrich@zalf.de, Tel.: 033432/82 305

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.

You can find further information at: www.zalf.de/en/ueber_uns/Pages/Datenschutzerklaerung.aspx