

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 Area 1 Landscape Functioning of ZALF (RA1)** investigates the functioning of agricultural landscapes and aims at contributions to the United Nations' Sustainability Goals (SDGs) Zero Hunger, Climate Action, and Life on Land.

**The working group of Isotope Biogeochemistry and Gas Fluxes is offering a position for 36 months for**

## 1 PhD Position (m/f/d)

**in the project “Small-scale processes, large effect: rhizosphere traits as key for P efficiency in upland rice” (DFG) Start: January 2021 | Working Place: Müncheberg**

The DFG project “Small-scale processes, large effect: rhizosphere traits as key for P efficiency in upland rice” aims to elucidate the role and interplay of biogeochemical processes in the rhizosphere of upland rice genotypes with contrasting phosphorus use efficiencies and root hair properties. The methods cover field trials as well as radiotracer approaches in the plant-soil-system. The project includes a cooperation with BOKU Vienna (Rhizosphere Ecology and Biogeochemistry Group) and the Japan International Research Center for Agricultural Sciences (JIRCAS), Tsukuba, Japan.

### Your tasks:

- Performing plant pot experiments with radiotracers ( $^{14}\text{C}$ ,  $^{33}\text{P}$ )
- Conducting the field experiment at JIRCAS, Tsukuba, Japan (approx. 6 month stay at JIRCAS) together with the partners at BOKU and JIRCAS
- Project-related lab work incl. radiotracer imaging, sample preparation as well as  $^{14}\text{C}$ ,  $^{33}\text{P}$  and carbon/phosphorus analysis
- Statistical data analysis
- Presentation of results on national and international conferences
- Publication of results in peer-reviewed scientific journals

### Your qualifications:

- Master of science in the field of agricultural, ecological or geological sciences
- Experience in experimental laboratory work
- Excellent communication skills (incl. English)
- A substantial interest in science and willingness to learn new methods

- Willingness to travel within Germany and abroad

**Advantageous:**

- Practical experiences with plant experiments and radiotracer techniques
- Advanced knowledge in statistics

**We offer:**

- A collegial and open-minded working atmosphere in state-of-the-art facilities
- Family-orientated work
- Possibility to achieve a doctoral degree
- Participation in national and international conferences
- Membership in ZALF's graduate program (incl. benefit from skill training courses)
- Scientific and personal exchange with the project partners at BOKU (Austria) and JIRCAS (Japan)
- An interdisciplinary and international working environment that encourages independence and self-reliance
- Salary according to the collective agreement of the federal states (TV-L) EG13 with a 65% weekly working time

Women are particularly encouraged to apply. Applications from severely disabled persons with equal qualifications are favored. It is generally possible to work in the position on a part-time basis. 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 **57-2020** until **September 15, 2020** to: [Bewerbungen@zalf.de](mailto:Bewerbungen@zalf.de).

**If you have any further questions, please do not hesitate to contact us:**

**Dr. Maire Holz, phone +49(0)33432-82-127, Email: [maire.holz@zalf.de](mailto:maire.holz@zalf.de)**

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.as](http://www.zalf.de/en/ueber_uns/Pages/Datenschutzerklaerung.as)