

Founded in 1607, Justus Liebig University Giessen (JLU) is a research university rich in tradition. Inspired by curiosity about the unknown, we enable around 26,500 students and 5,700 employees to advance science for society. Join us in breaking new ground and writing success stories - your own and those of our university.

Join us from 01.11.2024 as a

## **Doctoral student (m/f/d) in the field of Water Balance and Microclimate in Agroforestry Systems**



The candidate will receive a scholarship of 1,200 € per month with an additional 150 € per month for material and travel expenses over a standard funding period of 3 years funded by the Faculty 09 - Agricultural Sciences, Nutritional Sciences, and Environmental Management. The candidate will join the Chair of Land Use Systems with focus on Agroforestry, Department of Landscape Ecology and Resources Management and will work in close collaboration with the externally funded [DFG Research Unit 5664 "Agroforestry for sustainable multifunctional agriculture \(FORMULA\)"](#).

FORMULA is part of a cooperation between Justus Liebig University Giessen and the Centre for Agricultural Landscape Research (ZALF) in Muencheberg. The research unit investigates topics of soil carbon storage and trace gas emissions, water and nutrient fluxes, species diversity and functional biodiversity, agronomy, resource efficiency and crop stress in two alley cropping systems in Hesse and Brandenburg. The research focusses on the interactions along gradients between trees and crops.

### **Your tasks at a glance**

- Implementation and maintenance of cosmic-ray neutron sensing equipment to understand field-scale impacts of agroforestry on soil moisture and water availability, mainly at the study site at Gladbacherhof (Hesse)
- Supervision and maintenance of a microclimate sensor networks at the agroforestry test sites at Gladbacherhof (Hesse).
- Analysis of large and complex datasets.
- Close cooperation with work on water and nutrient fluxes in FORMULA.
- Publication and presentation of project results in peer-reviewed international journals, at conferences and to the public.

### **Your qualifications and competences**

- Completed scientific university degree in environmental sciences, agricultural sciences, ecology, geosciences or a related degree programme.
- Creativity and interest in developing and implementing your own scientific approaches.
- Strong technical and analytical skills in field experiments. Ability to organise work processes.
- Willingness to work in the field for extended periods.
- Ability to work in a team, communication skills and a very good command of written and spoken English

- Willingness and ability to supervise students, e.g., in the context of BSc or MSc theses.
- You hold a class B driving licence.

#### **Our offer to you**

- A varied job with flexible working hours
- You are expected to become a member of the International Giessen Graduate Centre for the Life Sciences ([GGL](#)), section “Ecology and Global Change”, which offers workshops, courses and activities that will support you with your PhD and prepare you for your future career
- More than 100 training seminars, workshops and e-learning opportunities per year for personal development, as well as a wide range of health and sports activities
- Good compatibility of family and career (certificate "audit familiengerechte hochschule")

If you have any further questions, please do not hesitate to contact Prof. Dr. Suzanne Jacobs by phone (+49 (0)641-99 37375) or by e-mail ([suzanne.r.jacobs@zeu.uni-giessen.de](mailto:suzanne.r.jacobs@zeu.uni-giessen.de)).

JLU strives for a higher proportion of women in the field of science, which is why women are particularly encouraged to apply for a scholarship. JLU is regarded as a family-friendly university. Applicants with children are very welcome. Applications from disabled people of equal aptitude will be given preference.

#### **You want to break new ground with us?**

Apply by filling out our [online form](#) and uploading (1) your motivation letter, (2) an up-to-date CV, (3) copies of your academic certifications and (4) a research proposal of max. 2 pages by 04.10.2024. We look forward to receiving your application.