The Leibniz Institute for Agricultural Engineering and Bioeconomy as a nationally and internationally acting institute is researching at the interface of biological and technical systems. Our research is aimed at sustainable intensification. We analyse, model and evaluate bio-economic production systems. We develop and integrate new technologies and management strategies for a knowledge-based, site-specific production of biomass, and its use for food, as bio-based materials and fuels - from basic research to application. Thus we are contributing to food security, animal welfare, the holistic use of biomass, and to protect the climate and environment.

As part of the DFG-funded project "N₂O emissions as response of process-related soil microbial activity to different irrigation and nitrogen fertilization regimes in potato cropping" we are seeking for a

Doctoral researcher
for the research field
„N₂O emissions under different irrigation and fertilization strategies“

The aim of the project is to investigate the N₂O emissions and the underlying microbial processes in the soil with different irrigation and nitrogen fertilization in potato cropping. The project combines agronomic and microbiological analyses with N₂O flow measurements in field trials. The influence of sprinkling irrigation, drip irrigation and fertigation with corresponding N fertilizer application on the N₂O emissions will be investigated. Area and product related total emissions and the main influencing factors are determined to derive appropriate management strategies.

Your responsibilities
 Scientific work on the agronomic part of the research project
 Support in carrying out the field trial
 Taking soil, plant and gas samples
 Data management and statistical analysis
 Writing reports and scientific publications

Your professional qualification profile
 Very good university degree in the fields of agricultural sciences, agricultural biology or related subjects (Diploma or Master of Science)
 High interest in an interdisciplinary research topics at the interface of agricultural science (crop production) and microbial ecology
 Very good knowledge of plant production and statistical analysis of field trial data
 Profound German and English skills, both orally and written
 Knowledge in N₂O-flux measurements would be desirable
 Specific knowledge in potato production would be desirable

Your personal qualification profile
 High interest in science
 Independent, responsible, reliable and result-oriented way of working
 Strong commitment to interdisciplinary cooperation
- Very good teamwork
- Ability to analyse and understand complex issues
- High interest in working in field trials, weather resistance, physically fit
- Willingness to travel on business in the country and abroad and for further training in new working techniques
- Driver's license class B

**We offer you**

- An attractive, interdisciplinary working environment in a team of experienced and young scientists and technicians
- Excellent infrastructure for carrying out scientific work
- Opportunity for PhD within the project including the possibility to participate in structured doctoral programs
- Access to national and international networks for your scientific career
- Family-friendly working conditions

The salary is based on your qualification and professional experience according to TV-L E13 (65%). The position will start on January the 1st in 2019 and is limited to 3 years according to the project duration. Further information can be obtained from Dr. Benjamin Trost (E-Mail: btrost@atb-potsdam.de) as well as on the Internet under [www.atb-potsdam.de](http://www.atb-potsdam.de).

If you would like to participate in our interdisciplinary research, please apply until **20.08.2018** by e-mail (if possible one PDF document) quoting the reference number **2018-FSM-1** under karriere@atb-potsdam.de.

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

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