The Leibniz Institute for Agricultural Engineering and Bioeconomy is a pioneer and a driver of bioeconomy research. We create the scientific foundation to transform agricultural, food, industrial and energy systems into a comprehensive bio-based circular economy. We develop and integrate techniques, processes and management strategies, effectively converging technologies to intelligently crosslink highly diverse bioeconomic production systems and to control them in a knowledge-based, adaptive and largely automated manner. We conduct research in dialogue with society - knowledge-motivated and application-inspired.

As part of the FNR-funded project "Process development for reducing methane emissions during liquid manure and digestate storage with the option to maintain and reactivate the methane potential for biogas production (EMeRGE)" the following position is to be filled as soon as possible

**Scientist (m/f/d) (65 %)**
**(optional PhD candidate)**

for the research field

„Greenhouse gas emissions and profitability“

The objective of the collaborative project is to reduce methane emissions from slurry and digestate storage by the addition of calcium cyanamide while maintaining and reactivating the methane potential for subsequent biogas production. The successful applicant will analyse greenhouse gas emissions and profitability across the process chain comprising liquid manure storage, biogas production and field application of manure and digestate. The position is assigned to the research group “Bioeconomic system modelling” in close cooperation with the research groups “Bio-engineering” and “System microbiology” at ATB and the external partner AlzChem.

**Your responsibilities**

- Organising, executing and evaluating a field experiment including gas, soil and plant sampling and analyses
- Developing regional scenarios of calcium cyanamide application
- Modelling and analysis of greenhouse gas emissions and profitability across the process chain
- Presentation of project results at scientific conferences and stakeholder meetings
- Writing project reports and scientific publications

**Your qualifications**

- Very good university degree in the fields of agricultural or environmental sciences or related subjects (Diploma or Master of Science)
- Knowledge and experience or willingness to become familiar with methods, in particular measuring gas fluxes in the field, life cycle assessment and economic analysis
- Willingness to learn scientific software development with Python, first experience in programming is an advantage
- Knowledge in statistical data analysis
- High interest in interdisciplinary cooperation at the interface of agronomy, bio-engineering and microbial ecology
- Very good written and spoken English and German skills
- Ability to work in a team and willingness to cooperate, reliability, flexibility, personal commitment and independent work
- European Driving license class B

**We offer**

- An attractive, interdisciplinary working environment in a team of experienced and young scientists and technicians
- Excellent infrastructure for carrying out scientific work
- Opportunity to do a doctorate 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 that promote the compatibility of work and family life
- Company-owned electric bicycles for business trips
- Participation on the VBB company ticket
- Our institute is located on the edge of a picturesque park-like landscape and is easy to reach by public transport or by bike

This part-time position (65%) is limited until December 31, 2024. The salary is based on your qualification and professional experience according to TV-L up to salary group 13.

For further information, please contact Prof. Dr. Annette Prochnow (E-Mail aprochnow@atb-potsdam.de) and visit our website www.atb-potsdam.de.

If you would like to contribute your professional competence to our interdisciplinary research, please apply by the following deadline April 29, 2022 using ATB’s online application form for the job advertisement, code 2022-2-3, at https://www.atb-potsdam.de/en/career/vacancies. Applications received after the application deadline cannot be considered.

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

By submitting an application, you agree that your job application documents will be stored for a period of six months, even in the case of an unsuccessful application. Further information on the processing, storage and protection of your personal data can be found at https://www.atb-potsdam.de/en/services/data-protection-declaration-for-the-application-process.

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