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 joint project “Emission reduction in livestock farming (EmiMin)”, the following position is to be filled as soon as possible

Scientist (m/f/d) (65%) (optional PhD candidate) for the area Modeling and mitigation of emissions

In the present project, models are to be developed based on existing data and data to be generated, which estimate the processes for the generation and reduction of emissions in dairy cow barns with solid floors. Existing model approaches are further developed with reference to typical and widespread housing systems and their manure management.

Your responsibilities

Your main responsibility lies in the scientific monitoring and evaluation of measurements of emissions of ammonia and climate-relevant gases, as well as in the development of suitable models for forecasting emissions.

- Statistical evaluation of gas concentrations, emission rates, climate parameters and data from microbiological investigations
- Development of models to predict emissions based on measurement data
- Evaluation of the effectiveness of the measure used based on the measurement data
- Development, procurement and commissioning of measurement setups
- Carrying out and scientific monitoring of measurements in the laboratory
- Carrying out microbiological tests with cooperation partners
- Writing reports and scientific publications in peer-reviewed journals

Your qualifications

- Successfully completed university studies in the field of agricultural, engineering, environmental or natural sciences
- Experience in measuring gaseous emissions
- Experience in conducting laboratory experiments and microbiological investigations of manure;
- Experience in statistical modeling and knowledge of R
- Very good written and spoken English and German skills
- Independent work, personal commitment, ability to work in a team, willingness to cooperate, excellent communication skills and solution-oriented action are required
- Class B driving license and willingness to travel

We offer

- Excellent infrastructure for your scientific work
- Participation in an interdisciplinary project and an attractive working environment
- The opportunity to do a doctorate and participate in a structured doctoral program
- An exciting job in highly topical subject areas
- 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.

The position is part-time (65%) and limited to June 30, 2023, depending on the project duration. An extension for a further three years is possible subject to the approval of the requested funding.

Remuneration depends on your qualifications and professional experience up to EG 13 TV-L. The position will be filled with the prospect of an extension subject to the grant from the funding body.

For further information, please contact Univ.-Prof. Dr. Thomas Amon (Tel.: +49 331-5699 510, E-Mail tamon@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 04th 2022 using ATB’s online application form for the job advertisement, code 2022-5-5, 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.

Published on 03/07/2022