The Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB) researches at the interface of biological and technical systems at national and international level. ATB research spans from basic research to application and is aimed at sustainable intensification. Research activities include conceptualising, analysing, modelling and evaluation of bio-economic production systems. ATB develops and integrates new technologies and management strategies for a knowledge-based, site-specific production of biomass, and its use for food, feed and as raw materials and bio-fuels. ATB contributes to food security, animal welfare, the holistic use of biomass, and to the protection of climate and environment.

We are seeking - subject to final budget approval for granted projects - for a

**Scientist (Postdoc) (m/f/d) (65%)**

for the topics

**Modelling of sustainable European livestock systems, with a focus on efficient greenhouse gas and nitrogen mitigation on farm level**

for three years, starting in January 2020

ATB coordinates two projects funded under the EraNet Joint Call 2018. European, New Zealand and Chile partners will develop a whole system concept for three pillar sustainable dairy production systems targeted to key European regions and for mitigation of greenhouse gas and nitrogen emissions from livestock systems. European regions are highly diverse and complex, so no “one size fits all”-solution is available. A prototype for an Open Access decision support system on the farm level especially for GHG and N mitigation strategies will be developed. Relationships between biotic and abiotic drivers of manure and grazing emissions will be established and integrated into farm scale decision support systems and into national emission inventories.

**Your tasks**

- In collaboration with project partners create an overview on key parameters and framework for emission mitigation and sustainability assessment of European dairy and livestock production systems
- Contribute to the 3P sustainability assessment and the development of the farm scale decision support system
- Process, analyse and exchange data using statistical analysis and research data management methods
- Contribute to the development of an interactive web platform on optimised dairy production systems in key European areas and on functional relationships for emissions from livestock systems
- Contribute to the improvement of national emission inventories
- Publish results in peer-reviewed journals
- Support the coordinator of both projects
  - project management tasks
  - dissemination activities; administration of project website

**Our expectations**

- **Your professional qualification profile:**
  - University degree, PhD in natural sciences or related engineering disciplines
  - Profound research experience and knowledge in European livestock systems
  - Parameter studies and sensitivity analyses
  - LCA methodology, drivers of GHG and N emissions in livestock systems, inventory compilation
  - Very good knowledge of statistical data analysis and experience in related software (e.g. R, MATLAB)
  - Fluent English language proficiency and proven ability to write scientific publications
  - Preferably experienced in project management

- **Personal qualification:**
  - Independent, self-responsible, reliable and result-oriented way of working
  - Ability to analyse complex data and situations
  - Strong communication and teamwork skills, ability to cooperate, flexibility, commitment, ability to work under pressure, reliability
  - Willingness to travel, valid driving license for use in Europe (min. category B)
Cross-cultural competence

We offer

- Your participation in a transnational, excellent project consortium
- Excellent infrastructure for carrying out scientific work
- Attractive, interdisciplinary working environment and very good conditions to develop your own scientific career and your network
- Family-friendly working conditions that foster the compatibility of work and family life

The salary is based on your qualification and professional experience, according to German public service salary scale (TV-L E13). This part-time position (65%) is limited to three years, based on the duration of the project, and supposed to start in January 2020. Please indicate your earliest availability.

Further information regarding tasks can be obtained from PD Dr. Barbara Amon, Prof. UZ (e-Mail: bamon@atb-potsdam.de).

If you would like to participate in our interdisciplinary research, please apply until November 17th, 2019 by e-mail to karriere@atb-potsdam.de quoting the reference number 2019-2-9 (in English; one single PDF document; max. 6 MB; containing a detailed CV, including personal contact information and three references, only relevant certificates, as well as a two-page research statement addressing your specific interest, motivation and qualifications for the position (please address what skill and abilities would you bring to the team and what would you hope to gain from working on this position)).

Due to the tight time frame, interviews might be scheduled already in November, video interviews are possible.

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

With your application for employment you declare your agreement to store your application documents for at least three months even in case of an unsuccessful candidacy.

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