



Dummerstorf in May 2022

Innovative research at the interplay of the bioeconomy, agriculture, environmental and climate protection as well as animal welfare and animal health - the Research Institute for Farm Animal Biology (FBN) offers ca. 300 employees the opportunity to conduct interdisciplinary basic and applied research. Developing sustainable livestock farming in a globalised world is a complex task. Efficiency and conservation of resources, taking into account local and global environmental and climate impacts, are just as much in focus as the welfare and health of the animals and the safety of the food obtained from them.

The Research Institute for Farm Animal Biology (FBN) stands for excellent research in international, multidisciplinary teams, modern infrastructure and a colloquial atmosphere. Our green, natural campus, only a few minutes away from the cosmopolitan city by the sea Rostock, offers our employees an attractive, quiet working environment in which they are valued and respected.

The **Institute of Genome Biology** invite applications for a

PhD student position (m/f/d)

for 36 months starting at the earliest possible date.

The salary is according to pay group E 13 (TV-L 65%).

Reference number: 2022-15

What to expect:

The project in which the candidate will be involved is part of a collaborative project with the University of Hohenheim and is funded by the German Research Foundation (DFG Research Unit P-Fowl). The project title is "Characterization of mineral utilisation by functional genomics in two contrasting high-yielding laying hen strains". We focus on endogenous, post-absorptive mechanisms of mineral and myo-inositol metabolism in bone and kidney tissue. Using RNAseq and targeted microfluidic high-throughput qRT-PCR, molecular signalling pathways and associated metabolic processes will be identified that are differentially regulated in relation to phenotypic variability in phosphorus (P) efficiency, variable P supply and the development of sexual maturity in two laying hen strains. In parallel, the endocrine response to the experimental conditions will be recorded and the relationship between endocrine and transcriptional shifts will be investigated.

Requirements:

- Master's degree, diploma or comparable qualification in life sciences, biology, animal science or veterinary medicine.
- Interest and expertise in the genetics and genomics of farm animals.
- Ability to plan, organize and conduct wet-lab experiments.
- Experience with standard PC programs and statistical software as well as NGS data analysis.
- Ability to present and publish the research results.
- High motivation and ability to work in a team as well as very good English skills (oral and written) are essential.

What we offer:

- Multifaceted and challenging research tasks in a performance-oriented and family-friendly environment.
- Modern equipment and integration in a network of German animal research institutions as a doctoral student.
- Employment conditions according to the provisions of Tarifvertrag für den öffentlichen Dienst der Länder (TV-L).
- Participation in the company pension scheme (VBL).
- Assistance with formal issues while settling into the new living environment.

The FBN is an internationally-oriented research institute performing basic and applied research on the biology of farmed animals. The Institute is committed to increase the proportion of women in areas where they are under-represented and suitably qualified women are encouraged to apply. Candidates with disabilities will be given preference in case of equal qualifications and capacity to complete the project.

For informal inquiries please contact **Dr. M. Oster** (oster@fbn-dummerstorf.de, phone +49-(0)38208-68706).

We look forward to your application. Please send applications, including motivation letter, detailed CV, copies of diplomas and certificates, and the contact information of one reference as **one pdf file** (preferred) to:
personal@fbn-dummerstorf.de.

Please be sure to quote the job number **2022-15** in your application.

The application process remains open until the position is filled.

Finally, it should be noted that we are not allowed to reimburse application or travel expenses in connection with the application. By submitting your application, you consent to the processing of your personal data for the purpose of the application procedure.

For more information about the FBN, please visit www.fbn-dummerstorf.de.

