



Dummerstorf in April 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.

For our team in the department "Functional Genome Analysis" of the Institute of Genome Biology we are looking 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%).**

#### **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 Group P-Fowl). Title: "Epigenetics, molecular signalling and data integration to infer biological networks related to myo-inositol and P utilisation in two contrasting high-yielding strains of laying hens". We focus on data integration to derive biological networks of host gut gene expression and microbiota variability related to inositol phosphate (InsPx), myo-inositol and phosphorus (P) utilisation in laying hens. Analysis will include identification of epi-/genetic regulation of genes, signalling networks and metabolites using systems biology approaches. Next generation sequencing (NGS) techniques, including bulk and single cell RNA-seq and ATAC-seq, will be used in combination with up-to-date bioinformatics tools.

#### **What to bring:**

- Master's degree, a diploma or a comparable qualification in statistics, bioinformatics, life sciences, biology, biochemistry, animal science and veterinary medicine.
- Programming skills in at least one programming language (R, SAS, Java or Perl) and basic knowledge in the fields of, biostatistics/bioinformatics and in-silico analysis of molecular biological/genetic data or metabolic pathways are advantageous.
- High motivation and ability to work in a team as well as and very good English skills (oral and written) are essential.

#### **What we offer:**

At the FBN, a committed and multidisciplinary team welcomes you. With us, decision paths are short, agreements are binding and reliable. We support you not only with a structured onboarding, but also with your questions about arriving and feeling at home in the Rostock region. In addition to the benefits of employment in the public sector, such as the additional pension scheme (VBL), we are proud of our certified family-friendliness. Flexible working hours and the possibility to mobile working are self-evident for us. Thanks to our cooperation with the local kindergarten and parent-child rooms, employees with children can also find optimal working conditions with us. Our Dummerstorf site is located in a rural idyll just a few minutes' drive from the Hanseatic and university city of Rostock, where you can spend the evening on the white Baltic Sea beach or in the lively centre with its numerous restaurants, museums and stages.

If you would like to become part of our team, we look forward to receiving your application. As equal opportunities are an important part of our personnel policy, we welcome applications from all backgrounds. Applications from disabled people are explicitly welcome.

For further information, please contact Dr. S. Wimmers ([s.wimmers@fbn-dummerstorf.de](mailto:s.wimmers@fbn-dummerstorf.de), phone +49-(0)38208-68703).

Please send us your application only by e-mail to:

[personal@fbn-dummerstorf.de](mailto:personal@fbn-dummerstorf.de).

Please be sure to quote the job number **2022-11** 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](http://www.fbn-dummerstorf.de)

