



Jobbnorge-ID: 139371

Søknadsfrist: Avsluttet

Nettside:

Omfang:

Varighet:

Postdoctoral fellowship in monogastric animal nutrition and health - ref.no. 17/02209

The Faculty of Biosciences (www.nmbu.no/en/faculty/biovit) contributes to the development of sustainable agriculture and food production systems through basic and applied research in plants, animals and fish (aquaculture). The Faculty is organised in two departments: Department of Animal and Aquacultural Sciences (IHA) and Department of Plant Sciences (IPV).

IHA is currently inviting applications for a full-time, 2-year postdoctoral fellowship, with possibilities for extension depending on available funding. The position is funded by the Research Council of Norway to work on the project "FeedMileage - Efficient use of feed resources for a sustainable Norwegian food production".

FeedMileage aims to improve utilization of national fibre-rich feed resources, increase genetic robustness and improve gut health of the animals. A further goal is to reduce the environmental impact of this production sector through lowered greenhouse gas emissions and reduced nutrient excretion.

The project is a collaboration between the Faculty of Biosciences (host) and the Faculty of Veterinary Medicine at NMBU.

FeedMileage is closely tied in with the prestigious Centre for Research-based Innovation, Foods of Norway (www.foodsofnorway.net), which is hosted by IHA.

Research project

The candidate will be mainly associated with work package 4 in FeedMileage on evaluating the effect of feeding diets based on local protein feed resources on pig growth performance, gastro-intestinal and general health. A major research focus will be to evaluate the effect of protein sources (e.g. rapeseed meal, field beans, and peas) on nutritional value, growth performance and gastro-intestinal health of pigs by using a wide range of analytical techniques to provide novel insight into the mode of action of feed ingredients on pigs' performance, gut function and health.

Main tasks

- Design and conduct experiments with pigs and broiler chickens to determine growth performance and assessment of gastro-intestinal homeostasis and health.
- Diet formulation and feed production.
- Study the impact of novel/functional feed on animal growth performance and health using state of the art tools (including immunostaining, next-generation sequencing technology, microscopy, metabolomics and proteomics).
- Processing and statistical analysis of data.
- Generate scientific publications.

Minimum required qualifications

- A doctoral degree in animal nutrition and physiology or related discipline.
- Appropriate research experience and training in nutritional experimental design and in the assessment of intestinal homeostasis in animals are essential, preferably in monogastric farm animals.
- The candidate must not have any allergies that could affect their work with feed, chemicals or farm animals.
- Excellent knowledge of oral and written English

Additional experience

- Experience in the analysis of biological responses in nutritional and/or biological challenge studies using advanced molecular techniques and statistical analysis, including analyzing and integrating large "omics" datasets for solving complex scientific questions, would be an advantage.
- Experience in chromatographical techniques and biochemical assays would also be an advantage.

Desired personal qualities

We are seeking a highly ambitious, creative candidate with the potential to become a top research scientist. The successful candidate will have team-work aptitude and good communication skills.

Remuneration

The position is placed in code 1352 Postdoctor on the government pay scale, pay grade 57-65 (currently NOK 489.300 - 567.100), depending on qualifications and seniority. Pay increases are according to seniority.

Further information

Prof Margareth Øverland, E-mail margareth.overland@nmbu.no, +47 6723 2655 or Dr. Liv Torunn Mydland, E-mail liv.mydland@nmbu.no +47 6723 2635

Application

To apply online for this vacancy, please click on the '**Apply for this job**' button above. This will route you to the University's Web Recruitment System, where you will need to register an account (if you have not done so already) and log in before completing the online application form.

Application deadline: 7th August 2017

Applications should include (electronically) a cover letter, curriculum vitae, full publication list, copies of degree certificates and transcripts of academic records (all certified), and a list of two persons who may act as references (with phone numbers and e-mail addresses). Publications should be included electronically by the application deadline.

Printed material which cannot be sent electronically should be sent by surface mail to the relevant department at the Norwegian University of Life Sciences, P.O. Box 5003, NO-1432 Ås, by **7th August 2017**. Please quote reference number 17/02209.

If it is difficult to judge the applicant's contribution for publications with multiple authors, a short description of the applicant's contribution must be included.

A compulsory contribution of 2 % is made to the Norwegian State Pension Fund. A good working environment is characterized by diversity. We encourage qualified candidates to apply, irrespective of gender, physical ability or cultural background. The workplace will if necessary be facilitated for persons with disabilities.

According to the Freedom of Information Act § 25 the list of applicants for this position may be made public irrespective of whether the applicant has requested that his/her name be withheld.

Tilleggsinformasjon

Arbeidssted: