

## **Professor in Microbial Ecology**

DTU Vet invites applications for a position as Professor in Microbial Ecology.

DTU Vet conducts veterinary and medical research, education, scientific advice to public authorities and diagnostic services at the highest level to improve the health and welfare of animals and people in society. The department is national veterinary reference laboratory and is responsible for the laboratory part of the veterinary contingency plan.

The ecology of the microbiota, animal health and infectious diseases are key areas for DTU VET as part of the strategic research and development profile of the institute. Research and development within these areas are important for the continued veterinary preparedness, treatment of infectious diseases and for improvement of veterinary diagnostics with the aim of improving animal health and welfare and a reduced usage of antibiotics. These activities also form an important background for collaborations with other DTU institutes and with other public and private research entities.

The professor will be attached to the Section for Bacteriology, Pathology and Parasitology, one of the five Sections comprising the Department employing 220 persons.

The section for Bacteriology, Pathology and Parasitology is concentrating on research about the mechanisms behind infections leading to the development of new treatments and disease prevention and enhancing health and welfare of production animals including fish and shellfish, wildlife and pets. We collaborate with leading scientific partners, both nationally and internationally, with industrial partners, farmers, academia and authorities.

The position will be focused on molecular characterisation of the microbiota in the gastrointestinal tract and at other sites of the animal, bacterial pathogens and pathogenesis studies.

Research focus areas of the professor

- Characterisation of the microbiota in the gastrointestinal tract to obtain an understanding of which members are important to create and maintain a robust and healthy microbiota in order to prevent or minimize infections and the use of antimicrobials and metals. The activity also include studies regarding the effect and use of pre- and probiotics, and studies in pig models that mimic human disease complexes like e.g. metabolic syndrome.
- Usage of omics techniques combined with advanced microscopy techniques to increase the knowledge on bacterial behaviour and gene expression in vivo.
- Identification and characterisation of the microbiota in non-gastrointestinal environments with the aim at describe the composition, activity and genetic exchange of commensals and pathogens.

### **Responsibilities and tasks**

Primary tasks of the professor are mainly research, teaching, external collaboration and research management in order to strengthen and develop the specific field.

- Research (including scientific publications)
- Attract external research funding (including EU projects)
- External collaboration
- Cooperation in research within in the section for Bacteriology, Pathology and Parasitology and with other sections at the National Veterinary Institute in line with the institute's strategy
- Research-based teaching
- Innovation activities
- Supervision of PhD students and post-doc researchers
- Other duties:
  - Academic assessment work
  - Knowledge sharing at the institute, at DTU and with society

The professor is expected to develop and maintain useful research activities within the own research fields and other related areas within the National Veterinary Institute, other DTU-institutes, industry, academia and authorities at both national and international level.

The successful candidate is expected to take a lead position in teaching at the bachelor-, master- and PhD levels.

### **Qualifications**

Special input is expected in the area of research/innovation and research-related management, in original publications in scientific pre-reviewed journals and in the ability to attract external research funding.

The requirements are as follows:

- A high level of original scientific production at international level that has contributed to further development of the research area in question.
- Documented and successful education experience at different levels within the university's study programmes, including and in particular at PhD level.
- Teaching
- Documented experience in
  - Research management, including handling management assignments in congresses and leading of national or international projects
  - Innovation, including the establishment of patent areas and application of research results in a commercial context.

### **Assessment**

In the assessment of the candidates consideration will be given to

- the ability to teach
- scientific production at international level, research potential and ability to lead and develop a research team
- the ability to promote and utilize research results
- experience with innovation activities
- an all-round experience basis, including international experience
- the ability to contribute to the development of the Department's internal and external cooperation
- track record in attracting funding to the research area
- visions within the research area

For the specific position consideration will also be given to:

- collaboration with industry

### **Salary and terms of employment**

The appointment will be based on the collective agreement with the Confederation of Professional Associations. The allowance will be agreed with the relevant union.

### **Further information**

Further information may be obtained from Head of Department Kristian Møller, [krmol@vet.dtu.dk](mailto:krmol@vet.dtu.dk), tel. +45 35 88 61 89.

You can read more about DTU Vet on [www.vet.dtu.dk](http://www.vet.dtu.dk).

### **Application procedure:**

Please submit your online application no later than **XXX 2014**. Apply online at [www.career.dtu.dk](http://www.career.dtu.dk).

Applications must be submitted as **one pdf file** containing all materials to be given consideration. To apply, please open the link "Apply online," fill in the online application form, and attach **all your materials in English in one pdf file**. The file must include:

- Application (cover letter) addressed to the President
- CV
- List of publications indicating scientific highlights
- Documentation of teaching experience
- A plan for future research

All interested candidates irrespective of age, gender, disability, race, religion or ethnic background are encouraged to apply.