

Professor (with special responsibilities) in Veterinary Pathology

DTU Vet invites applications for a position as Professor in Veterinary Pathology.

DTU Vet conducts veterinary 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. Diseases of production animals are key areas for as part of the strategic research and development profile of the institute.

The institute has a strong basic knowledge regarding a large number of infectious diseases in animals including zoonoses. The basic knowledge includes pathology, molecular microbiology, immunology, epidemiology, and host-pathogen interactions. Moreover, the institute is strong in development of animal models, in methods describing complex microbial societies including pathogens at skin/mucosal surfaces and surroundings. The institute has a strong international position and an updated infrastructure within these areas, forming the basis of widespread collaboration within and outside DTU and internationally, as well as supporting teaching activities in life science-related courses at DTU. Finally, these activities are important for the veterinary contingency plan and counseling of the institute based on knowledge on classical production diseases, new emerging/re-emerging animal diseases and the continuous improvement of diagnostics.

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

The main research area of the section is focused on an in-depth understanding of the mechanisms behind infections; a knowledge that will lead to enhanced health and welfare for production animals, wildlife and pets. Within pathology focus is on diagnostics and pathogenesis studies especially for gastro-intestinal diseases in production animals.

For the study of pathogenesis and pathogenicity, we establish experimental animal models including gross and histopathology as well as *in situ* pathogen detection in cooperation with the other sections at DTU Vet, other DTU departments, with industrial partners, farmers, academia and authorities and external leading scientific partners, both nationally and internationally.

Research focus areas of the professor

- Studies on the pathogenesis of infectious as well as non-infectious diseases affecting the skin/mucosal surfaces with focus on the gastro-intestinal mucosa in production animals aiming at identifying, preventing and controlling/eradicating of diseases.
- Developing and implementing advanced *in situ* microscopy methods to increase detailed knowledge on pathogens and characterization of host responses to infection.
- Developing and implementing of molecular based methods to describe host-pathogen interactions, involving imaging based technology.
- Development of animal models for studying the pathogenesis and increase knowledge of diseases.

Responsibilities and tasks

Primary tasks of the professor are mainly research, research-based teaching, diagnostic obligations, and being part of the veterinary contingency plan, external collaboration and research management in order to strengthen and develop the specific field.

- Head and manage research projects within health and endemic diseases of production animals
- Develop and manage diagnostic histopathology
- Develop imaging techniques for use in pathogenesis studies
- Be part of the veterinary contingency plan of the institute
- Further strengthen and develop the research area aiming excellency
- Secure funding for the research area
- Develop research-based teaching at pre- and postgraduate levels
- Secure external collaboration, nationally and internationally

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 professor is expected to participate in teaching at the bachelor-, master- and PhD levels.

A position as Professor with Special Responsibilities is held for a limited time period and involves all the usual duties associated with a full professorship, as well as fixed-term specific duties which will vary according to the research program.

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.
- 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, the application of research results in commercial contexts etc.

Assessment

In the assessment of the candidate consideration will be given to

- the candidate's qualification for handling the special, function-related assignment(s) that are associated with the position
- scientific production at international level, research potential and ability to lead and develop a research team
- the ability to teach
- 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
- the ability to attract 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.

The position is available for a 5-year period and may be extended for up to 3 years more.

Further information

Further information may be obtained from Head of Department Kristian Møller, krmol@vet.dtu.dk, +45 3588 6189.

You can read more about DTU Vet on www.vet.dtu.dk

Application procedure:

Please submit your online application no later than **XXX 2015**.

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 portfolio
- A plan for future research

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