

Professor in Innate Immunology

The National Veterinary Institute (DTU Vet) invites applications for a position as Professor in Innate Immunology.

Immunology and vaccinology are key areas for the National Veterinary Institute as part of the strategic research and development profile of the institute (see www.vet.dtu.dk). Research and development within these areas are important for basic understanding of the immune system across species, for example using human-like animals as pigs as models for human condition, developing new principles of vaccination based on the understanding of activation of animal immune systems and for developing new diagnostic tools for objective evaluation of stress and welfare. 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 continued veterinary preparedness and counseling of the institute based on the continuous improvement of diagnostics and vaccines.

The position is situated at DTU Vet, Section for Immunology and Vaccinology at Bülowsvej in Copenhagen.

The main focus area of the section is the study of basic mechanisms of innate and adaptive immune responses in important species of farm animals such as pig and cattle. This has the purpose of advancing basic knowledge on immune and inflammatory mechanisms and mediators, supporting our development of vaccines, diagnostic methods and animal models for human diseases with immunological and/or inflammatory components.

Responsibilities and tasks

The position covers research and research-based teaching and innovation.

This includes the following general obligations:

- to head and manage research projects within Innate Immunology of production animals
- to further strengthen and develop the research area aiming excellency
- to secure funding for the research area
- to develop research-based teaching at pre- and postgraduate levels-
- to secure external collaboration, nationally and internationally
- to secure IPR on inventions

The position also covers other general duties including being available for innovation and/or public-sector consultancy, to actively pursue scientific exchange with the society at large, to supervise, educate and guide academics at all levels and to participate in academic assessment work. Also included are existing and future in-house tasks concerning consultancies and contract work on antibody and assay development, the Professor is furthermore expected to assume the position as head of studies for the DTU Master Program Pharmaceutical Design and Engineering and to take a lead position in teaching at the bachelor-, master- and PhD levels.

The Professor is expected to act as a group manager for 10-20 people (faculty, postdocs, scientific assistants, technicians, and students (Ph.D. –, master-, and bachelor)

Research and teaching is coordinated with the other sections at DTU Vet and other DTU departments

The research should focus on

- Basic studies on the biology of production animal host responses to infection with emphasis on the dynamics of early response factors
- Developing and implementing advanced molecular and physical methods to increase detailed knowledge on host responses to infection
- Development of quantitative methods for biomarker detection and monitoring

The Professor is expected to establish synergies between his/her own research and other related research activities at the National Veterinary Institute and related DTU departments.

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

Qualifications

The preferred candidate has a broad and interdisciplinary background including thorough knowledge of immunology, protein chemistry, bioorganic chemistry, high throughput expression analysis and knowledge of veterinary relevant infections, vaccines and diagnostics. The candidate should have outstanding scientific qualifications at international level, a proven record of scientific achievements and must be internationally recognized in his/her field as evidenced through international collaborations and authorships.

Good project management and collaboration skills as well as the ability to inspire, motivate and supervise across scientific disciplines are essential. A proven fund-raising record and a good publication rate are also essential. The applicant must have teaching and supervision experiences at all academic levels.

Notable achievements will be expected within research and research-related leadership, as well as within innovation including the advancement of patent areas, and the application of research results in commercial contexts.

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

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 can be obtained from from Head of Department Kristian Møller, krm@vet.dtu.dk, +45 7234 6189.

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

Application procedure:

Please submit your online application no later than **XXX 2013**. Apply online at 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.