

## Professor of Microbial Food Safety

The National Food institute (DTU Food) invites applications for a position as Professor with Special Assignments (MSA) in research and innovation. The scientific focus is microbial food safety with emphasis on analytical tracing, including rapid tracing of pathogens in the entire food chain. In addition, molecular tools should be developed to facilitate tracing the origin of food products.

The professor will be affiliated to the Division of Food Microbiology, which conducts research and provides scientific advice to national and international authorities and private industry regarding food safety. The main focus of the research program will be to develop molecular tools for the detection, characterization and enumeration of microorganisms and microbial indicators. The successful candidate will play a key role in relation to the Danish food industry, food regulators, international organizations and the EU.

### Responsibilities and tasks

The main responsibility of the professor will be to develop, implement, manage, supervise, and communicate research in food microbiology. Specifically, the incumbent is expected to advance our current expertise in pre-analytical sample preparation, genomics, metagenomics, biosensors, immunochemical techniques, etc.

In addition to improved source tracing, the molecular tools should be developed to trace the origin of foods and document food authenticity.

The research should focus on:

- Full chain traceability
- The use of genomics and metagenomics methods to generate data for control of pathogens, source tracing, surveillance and monitoring.
- Improved molecular tools for quantitative microbial risk assessments.
- Development of robust and validated laboratory methods for implementation by the food industry.
- Innovative solutions to the global safety of complex food chains.

A key task of the position is to establish synergies between the outlined research area and related activities at DTU National Food Institute, other DTU institutes, the food industry, and relevant national and international research institutions. Special emphasis will be placed on collaborative projects with the food and diagnostics industry in order to transfer the technological outcome to ensure the production of safer and high-quality foods.

The professor must be capable of, and motivated to participation in, teaching at MSc and PhD levels. The professor is also expected to initiate new teaching activities involving e-learning platforms.

### Qualifications

The candidate must demonstrate international recognition within microbial food safety, and have a solid background in molecular microbiology, diagnostic technology, immunochemical methods, assay validation and implementation, and interdisciplinary knowledge of food safety. Documented experience of fundraising and management of complex and multidisciplinary projects is necessary. Furthermore, an excellent record of scientific achievements including multi-center, international research publications is required. It is necessary that the candidate has shown the ability to collaborate with industry and international research groups.

### Assessment

In the assessment of the candidates, consideration will be given to:

- 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 and innovation area
- track record for commercialisation of research results, including protection of intellectual property
- track record for fostering collaboration with industry

For the specific position consideration will also be given to:

- Documented and strong track record in external fund-raising, including EU projects – consistently and over long periods
- Extensive national and international networks and experience
- Management of large and complex international projects
- Visions and ideas to address research gaps
- Establishing and leading of national and international research teams and industrial collaborative projects
- Documented ability to implement research results
- Documented and extensive experience in supervision of PhD students and postdocs
- Documented experience with the use of new learning platforms, such as e-learning
- Experience with international standardization of diagnostic microbiological methods

### **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 Jørgen Schlundt, +45 3588 7703 or Head of Division Dorte Lau Baggesen, +45 3588 6207.

### **Application procedure:**

We must have your online application by **XXXX 2013**.

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 a single and collated PDF file**. The file must include:

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

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