

Professor in Experimental Protein Biophysical Chemistry

DTU Chemistry at Technical University of Denmark invites applications for a position as full professor in Experimental Protein Biophysical Chemistry with emphasis on X-ray and neutron scattering. The successful candidate has a solid scientific experience with these techniques and delivers forefront teaching, research, and innovation within protein biophysical chemistry. Expertise is expected in combining experimental data from large facilities such as MAXIV and the coming ESS with biophysical analytical tools.

DTU Chemistry strives for academic excellence in research, innovation, and education within Applied Chemistry and it has strong activities in Organic, Inorganic, Physical, and Biophysical Chemistry.

With a position as full professor, the department seeks to strengthen its research and education within fundamental and applied physical chemistry of proteins as well as within innovation and industrial collaboration.

The purpose of the position is to ensure that the positive development of protein chemistry continues within the department. Our ambition is to understand the relationship between the atomic structure of proteins and their physico-chemical properties and functionality. The goal is to obtain a fundamental insight of physicochemical properties like stability, solubility, functionality, and folding properties for optimization of industrial and biopharmaceutical applications of peptides and proteins. There is a need to develop new insight based on novel experimental design and biophysical techniques in combination with experimental structural information obtained under non-ideal conditions.

The Department has 150 employees including presently 27 faculty members. The professor will be a part of the section for Physical and Biophysical Chemistry and is expected to interact closely with the other faculty members.

Responsibilities and tasks

The position covers research and research-based teaching including:

- Research leadership in order to strengthen and develop the field
- External collaboration with academia and industry
- Innovation as part of research and teaching
- Strong involvement in the development of teaching and education with protein chemistry
- Educational guidance and supervision of assistant professors and young researchers (postdoctoral fellows and PhD students)

The professor will have the responsibility to initiate, supervise, and communicate fundamental and applied research in the field of protein biophysical chemistry. The educational responsibilities can include a broader range of topics within general and physical chemistry.

The professor should take a leading role in developing the research in protein chemistry at DTU Chemistry towards higher international recognition and visibility. This should be done in fruitful collaboration with relevant staff at the department, by establishing strong links to other departments at DTU, departments at other Danish and foreign universities, and engaging in the increasing industrial collaboration of DTU Chemistry.

This also implies securing major external funding for the research area and initiating new projects to strengthen and develop protein chemistry in Denmark.

The professor is expected to take advantage of the possibilities offered in the near future by ESS and contribute to scientific leveraging of the Danish investment in this facility.

The successful candidate is expected to take a lead role in teaching at the BSc, MSc, and PhD levels.

Qualifications

Notable achievements will be expected within research/innovation and research-related leadership, and generally achievements in extension of the qualifications stipulated for the position, which are:

- Significant original scientific output at international level that has been instrumental in advancement of the field in question
- Documented and successful teaching and dissemination experience at different levels within academia

Requirements for the position are:

- A strong background in, and an innovative approach to, experimental protein biophysical chemistry relevant for fundamental understanding as well as the application potential of new insight
- A strong track record of international academic and cross-disciplinary collaboration
- Interest for application-oriented research and industrial collaboration

Assessment

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

- Documented experience and quality of teaching and curriculum development
- Research impact and experience, funding track record and research vision
- Societal impact
- Documented innovation activities, including commercialization and collaboration with industry
- International impact and experience
- Leadership and collaboration
- Communication skills

We offer

DTU is a leading technical university globally recognized for the excellence of its research, education, innovation and scientific advice. We offer a rewarding and challenging job in an international environment. We strive for academic excellence in an environment characterized by collegial respect and academic freedom tempered by responsibility.

Salary and terms of employment

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

Further information

Further information may be obtained from Head of Department, Professor Erling H. Stenby, +45 4525 2012/ +45 2261 6875.

You can read more about DTU Chemistry at www.kemi.dtu.dk

Application procedure

Please submit your online application no later than **15 November 2018**.

Applications must be submitted as **one PDF file** containing all materials to be given consideration. To apply, please open the link 'Apply online', fill out 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
- A vision for future research
- Teaching and research statement, with a focus on the "Assessment" bullet points listed above
- Documentation of previous teaching and research, as related to the "Assessment" bullet points listed above
- List of publications indicating scientific highlights
- H-index, and ORCID (see e.g. <http://orcid.org/>)
- Diploma (MSc/PhD)

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