

Professor in Continuum Modelling

The Department of Energy Conversion and Storage (DTU Energy) at Technical University of Denmark invites applications for a position as professor in the area of continuum modelling.

DTU Energy is focusing on the development of new and improved materials and technologies for energy conversion and storage, such as fuels cells, electrolysis, batteries, magnets, and more. We are about 220 persons in the department which at present is placed at both DTU Risø Campus and Lyngby Campus. From January 2020, the whole department will be located centrally at DTU Lyngby Campus.

Responsibilities and tasks

The professor's tasks will be to strengthen and develop further the department's competences in continuum modelling and testing to deliver top-level research within this area. The professor must be a leading scientist in application of continuum modelling for use in, e.g., materials development, materials and component processing, technology optimization and/or energy system analyses. The professor must be innovative, be able to implement ideas, be able to collaborate across disciplines, and must have demonstrated good research management. Dissemination of the research, scientifically and in the public domain, is an important responsibility. The professor is expected to take a lead role in teaching and supervision of PhD, MSc, and BSc students, and of young scientists, hence excellence within teaching and supervision is important.

For international candidates, DTU can provide Danish language courses enabling the candidates to teach in Danish within 2-3 years.

The professor is expected to contribute significantly to DTU Energy's vision of demonstrating cross-disciplinary world-leading research to enable a sustainable society through innovative technology development and must take advantage of close collaboration with colleagues within the department as well as other DTU departments. An important task will be to attract external funding from public and private sources, and to deliver excellent results.

Qualifications

The professor must have demonstrated top-level and original scientific research in continuum modelling, and in at least one of the Department's main research areas, such as electrolysis, fuel cells, batteries, caloric systems, magnets, and more. The professor must demonstrate proven and successful management of a research team and the winning of larger research projects, including successful results and management. Successful collaboration with industry is also a prerequisite. Experience in teaching at BSc and MSc level, and supervision of PhDs and postdocs should be listed.

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 an academic freedom tempered by responsibility.

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 Professor Søren Linderøth, Head of Department, DTU Energy, mail: sqli@dtu.dk, +45 4677 5801.

You can read more about DTU Energy at www.energy.dtu.dk

Application procedure:

We must have your online application by **XX 2019**.

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
- A vision for future research (a 2 page vision of 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.