

## Professor in Energy Economics

Department of Management Engineering at Technical University of Denmark (DTU) invites applications for a position as professor and scientific leader in Energy Economics.

DTU Management Engineering is a department with the overall mission of contributing to research, development, and education within the following scientific areas: Systems Analysis, Management Science, Production and Service Management, Technology and Innovation Management, Transport Modelling, and Quantitative Sustainability Assessment.

The professor will be affiliated with the Systems Analysis Division, the Energy Economics and Regulation Group.

The research field of the position includes methodological development and application of energy economics within:

- Analysis of long-term energy trends and economic drivers including structural change and energy demand causality
- Economic impacts of energy taxes and environmental policy
- Power market design and renewables integration with emphasis on support policies and regulatory interactions
- Energy demand modelling including household heating technology choice, final demand, and energy savings

### Responsibilities and tasks

The professor is expected to become the scientific leader and driving force in energy economics, including analysis and modelling of economic impacts of energy policy instruments and regulation. Interlinkages between power and heat systems, internationalisation of markets and international emission trading schemes will also be part of the scientific area for the professor.

The position includes leading research projects and developing new research fields and alliances, strengthening the research team, developing research applications, and further accelerating the overall academic publication output in high-ranking journals. The professor is expected to manage and take a lead position in the division's development of and contribution to research-based teaching in the MSc programmes of the department, including examination commitments at the BSc, MSc, and PhD levels. This includes managing the Energy Systems line of the MSc in Engineering (Sustainable energy). Supervising and supporting PhD and MSc projects will also be a central task. For international candidates, DTU offers Danish language courses to be able to teach in Danish within the first 2-3 years.

The professor is expected to maintain cooperation links between Energy Economics and Regulation and other research groups at DTU and the department. Furthermore, the professor is expected to take a leading role in maintaining and further strengthening DTU's international and Danish networks and project partnerships with universities and other centres of excellence around the world.

### Qualifications

The professor should have documented experiences from research and teaching in energy economics and other adjacent economic fields.

Candidates are expected to be able to demonstrate notable achievements within research in several of the following areas:

- Analysis of long-term energy trends and economic drivers, including structural change and energy demand causality
- Economic impacts of energy taxes and environmental policy, for example tax incidence and industrial competitiveness
- Power markets and renewables integration with emphasis on support policies and regulatory interactions
- Energy and environmental policy instruments and regulation

Furthermore, the candidates must have the following qualifications

- Documented and successful management and development of MSc/BSc programmes.
- A substantial teaching experience within energy and/or environmental economics with documented quality of teaching
- A high level of original scientific production at international level that has contributed to further development of the subject area in question. In particular, a strong track record of scholarly research on macroeconomic effects of energy policy and regulation, and regulation concerning renewables on power markets is expected.
- Experience in designing, and preparing successful applications for public or private funding of larger research projects.
- Documented experience in research management, including handling management assignments in national or international projects, research programmes, conferences etc.
- Substantial experience in supervision and guidance of PhDs
- Innovative skills, the ability to generate new ideas
- The ability to communicate at all levels such as the provision of scientific advice to industry and/or public sector authorities as well as to the general public

### **Assessment**

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

- 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 acting Head of Department Professor Per Dannemand Andersen, tel.: +45 4525 4535, [pean@dtu.dk](mailto:pean@dtu.dk) or Professor Poul Erik Morthorst, Head of the Systems Analysis Division, +45 4677 5106, [pemo@dtu.dk](mailto:pemo@dtu.dk).

You can read more about DTU Management Engineering on [www.man.dtu.dk](http://www.man.dtu.dk).

**Application procedure:**

Please submit your online application no later than **XX 2018 (local time)**. Apply online at [www.career.dtu.dk](http://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 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
- Views regarding teaching and research based on the 'Assessment' bullets
- Documentation of previous teaching and research based on the "Assessment" bullets
- List of publications indicating scientific highlights
- H-index, and ORCID (see e.g. <http://orcid.org/>)
- Diploma (MSc/PhD)

Applications and enclosures received after the deadline will not be considered.

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