

# Professor in Engineering Systems Design

DTU Management Engineering at Technical University of Denmark invites applications for a position as Professor in Engineering Systems Design. The position will be based in, and will become Head of Division for, the Engineering Systems Division (ESD). ESD is one of six research divisions at the Department of Management Engineering.

Research in the Division focuses on understanding and improving the ways in which engineering systems are designed, managed, and operated throughout their life cycles. The Division is growing fast and is characterized by a vibrant and supportive research environment with more than 30 people, presently seven permanent faculty, and strong research collaborations with leading universities and industry worldwide.

## Responsibilities and tasks

The position involves research and teaching in engineering systems design at the highest international level. The professor must have a well-documented research record.

The department considers it a strength to combine the development of new theory with focus on real-life applications. The professor is expected to support this working tradition through peer activities and participate in a team-oriented environment.

The candidate is expected to have a proven track record of generating research funding from national and international (e.g. EU) sources. The successful candidate is expected to continue this work as well as further develop this role within the division.

The position includes taking a leading role in developing and managing the Division, leading ongoing research projects and developing new research fields and alliances.

You are expected to take a lead position in research-based teaching. Teaching mainly includes contributions to the MSc in Design & Innovation and the MSc in Industrial Engineering & Management. You are also expected to participate in supervisory roles regarding the different student projects at DTU.

Collaboration within the Department of Management Engineering and other departments and centres at DTU is expected—for example with DTU Compute, DTU Mechanical Engineering, DTU Nanotechnology and others, and in particular the Copenhagen Center for Health Technology (Cachet), for example to develop systems approaches to engineering better health and care. Furthermore, the new professor is expected to take a leading role in maintaining and further strengthening DTU's international and national academic and industry networks and in nourishing project partnerships with universities and other centres of excellence around the world.

As Head of Division, strong commitment to the overall development of the Department is also expected. The Head of Division becomes part of the Department leadership team and refers directly to the Head of Department.

The successful candidate is expected to take a lead position in teaching at the BSc, MSc, and PhD levels. Candidates who do not speak Danish should be willing to learn Danish within the first two-three years in order to be able to teach in Danish.

## Qualifications

We expect candidates to have significant research, teaching, and leadership experiences in the field of engineering systems design.

You have strong academic and leadership qualifications and documented experience, including:

- A high level of original scientific production at international level.
- In particular, a track record of scholarly research on engineering systems design, including human behaviour in design, complex networks, or a closely related area is expected.
- Designing and preparing successful applications for public or private funding of larger research project, including EU projects or equivalent.
- Research management, handling management assignments in national or international projects, research programmes, conferences etc.
- Supervision and guidance of PhDs, early- and mid-career faculty, and research teams in their career development and research groups in their strategic development.
- Since the candidate will be supervising research projects in the Division, excellent research skills are required with a proven ability to lead research projects, applying both qualitative and quantitative methods.
- Examining on PhD-level and at universities worldwide.
- Leading services to academic research communities, including e.g. associate editorship, editorial board membership, special issue editorship in leading journals, scientific lead as programme chair of conferences.
- Shown the ability to engage with industry and other professional communities, and successful in bridging academic, industry- and governmental stakeholder communities.
- The professor has outstanding didactic qualities, is an inspiring teacher and educational reformer.
- Leadership training with experience in academia or industry.

### **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

Strong consideration will also be given to:

- Track record of leadership in managing research groups, including professional, personal, resource, and strategic management
- Experience in managing a large research group and developing the academic profile of research groups
- National and international networks of academic, industrial, public and governmental institutions for further research and education at the Engineering Systems Division at DTU

### **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 Danish Confederation of Professional Associations. The allowance will be agreed with the relevant union.

### **Further information**

Further information may be obtained from Acting Head of Department Professor Per Dannemand Andersen, +45 4525 4535, [pean@dtu.dk](mailto:pean@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 **XX2018 (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 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
- 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.