

Tenure Track Assistant Professor or Associate Professor of Building Energy Systems

The Department of Civil and Architectural Engineering at Faculty of Technical Sciences, Aarhus University, invites applications for a tenure track Assistant Professor or Associate Professor position in Building Science from 1st Feb 2025, or as soon as possible thereafter.

Expected start date and duration of employment

This is a full-time position expected to be started on 1st Feb 2025 or as soon as possible thereafter.

Job description

As a tenure track assistant professor or associate professor of building science, you will contribute to the research and teaching environment of the department and to overall research strategy of the faculty. You will teach and supervise students at Bachelor, Master and PhD level, and you will contribute to the development of the department through individual and collaborative research of high international quality. You will work closely together with both Danish and international colleagues.

Your main tasks will consist of:

- Research of high international quality, including publication in top international journals
- Obtaining external research funding
- Research-based teaching and development of new teaching activities
- Academic leadership through skilled research management
- Extensive involvement in national and international collaboration within your field of research

The position is for a candidate holding a PhD degree in Building Science. You are furthermore expected to have BSc and MSc degrees with a substantial academic content related to building science aspects, i.e., indoor environment, building physics and/or building services. Experience from the industry is desired but not required. It is essential that your current knowledge, skills, and competencies can be applied to research and teaching in digitalisation of various aspects of architectural engineering such as:

- Modelling of occupancy and behaviour for performance prediction purposes in the design phase
- Design of Building Services
- Real-time fault detection and predictive maintenance of building energy systems
- Expert programming skills in e.g. MATLAB and Python

Who we are

Department of Civil and Architectural Engineering was established on January 1, 2021 in connection with Aarhus University's reorganization of the engineering area. The department employs around 100 people and is responsible for research and education within the department's scientific areas. We educate both Bachelors and Masters of Science in Engineering and around 950 students are enrolled in our degree programs. Furthermore, we also offer an advanced PhD program. Our PhD students have high academic potential and deliver high-quality results for both the private and the public sectors.

Through research and development, we forge sustainable technological solutions to some of the biggest challenges facing industry and society. We continuously contribute to sustainable development and to create green solutions to challenges within construction, building energy systems, indoor climate, geo-technics, environmental and climate adaptation and many other areas.

Our research is both basic and applied, and we develop current knowledge into workable solutions in the business community. We collaborate with a wide range of

public and private enterprises, and many of the department's research and development activities are based on the innovation needs of the business community. Through collaboration, we ensure that the knowledge and technology generated in the university's technical research environments are clearly anchored in reality and benefit the surrounding society. Based on our research on building materials, architectural design and technology, we also offer research-based public sector services and consultancy on technology to public agencies and ministries.

What we offer

The department/centre offers:

- a well-developed research infrastructure, laboratories and access to shared equipment
- an exciting interdisciplinary environment with many national, international and industrial collaborators
- a research climate encouraging lively, open and critical discussion within and across different fields of research
- a work environment with close working relationships, networking and social activities
- a workplace characterised by professionalism, equality and a healthy work-life balance.

Place of work and area of employment

The place of work is Inge Lehmanns Gade 10, DK-8000 Aarhus C, Denmark, and the area of employment is Aarhus University with related departments.

Contact information

For further information, please contact: the Head of the Department, Mikkel K. Kragh, +45 31 16 79 99, mkk@cae.au.dk.

Deadline

Applications must be received no later than 9th August 2024.

Technical Sciences Tenure Track

Aarhus University offers talented scientists from around the world attractive career perspectives via the Technical Sciences Tenure Track Programme. Highly qualified candidates are appointed as Assistant Professors for a period of six years with the prospect of performance- based advancement to a tenured Associate Professorship.

The aim of the Technical Sciences Tenure Track Programme is to:

- attract outstanding talented individuals that are competitive at an international level
- to promote the early development of independent research success early in the career of scientists
- to create transparency in the academic career path

As part of the tenure track position, the candidate is offered:

- access to research infrastructure
- capability development, including postgraduate teacher training
- a mentoring programme
- support to develop scientific networks and to secure interdisciplinary research at the highest level

As part of the Aarhus University Tenure Track Programme, the University carries out a mid-way evaluation to review the progress of the tenure track candidate after three years, according to the same criteria used in the final tenure review. The final tenure review is conducted after five and a half years. If the review is positive, the candidate will be offered a tenured position as Associate Professor at Aarhus University.

Please refer to the [tenure track guidelines](#) for the tenure review criteria and for the

tenure review process.

Application procedure

Shortlisting is used. This means that after the deadline for applications – and with the assistance from the assessment committee chairman, and the assessment committee if necessary, – the head of department selects the candidates to be evaluated. The selection is made on the basis of an assessment of who of the candidates are most relevant considering the requirements of the advertisement. All applicants will be notified within 6 weeks whether or not their applications have been sent to an expert assessment committee for evaluation. The selected applicants will be informed about the composition of the committee and will receive his/her assessment. Once the recruitment process is completed a final letter of rejection is sent to the deselected applicants.

Letter of reference

If you want a referee to upload a letter of reference on your behalf, please state the referee's contact information when you submit your application. We strongly recommend that you make an agreement with the person in question before you enter the referee's contact information, and that you ensure that the referee has enough time to write the letter of reference before the application deadline. Unfortunately, it is not possible to ensure that letters of reference received after the application deadline will be taken into consideration.

Formalities and salary range

Technical Sciences refers to the [Ministerial Order on the Appointment of Academic Staff at Danish Universities under the Danish Ministry of Science, Technology and Innovation](#).

The application must be in English and include a curriculum vitae, degree certificate, a complete list of publications, a statement of future research plans and information about research activities, teaching portfolio and verified information on previous teaching experience (if any). Guidelines for applicants can be found [here](#).

Appointment shall be in accordance with the collective labour agreement between the Danish Ministry of Taxation and the Danish Confederation of Professional Associations. Further information on qualification requirements and job content may be found in the [Memorandum on Job Structure for Academic Staff at Danish Universities](#).

Salary depends on seniority as agreed between the Danish Ministry of Taxation and the Confederation of Professional Associations.

Aarhus University's ambition is to be an attractive and inspiring workplace for all and to foster a culture in which each individual has opportunities to thrive, achieve and develop. We view equality and diversity as assets, and we welcome all applicants.

Ensuring gender balance at the Department of is a high priority at Aarhus University, and therefore, we particularly encourage women to apply for this position. No candidate will be given preferential treatment, and all applicants will be assessed on the basis of their qualifications for the position in question.

Research activities will be evaluated in relation to actual research time. Thus, we encourage applicants to specify periods of leave without research activities, in order to be able to subtract these periods from the span of the scientific career during the evaluation of scientific productivity.

Aarhus University offers a broad variety of services for international researchers and accompanying families, including relocation service and career counselling to expat