Tenure Track Assistant Professor in Lifetime Extension of Structures

The Department of Civil and Architectural Engineering at Aarhus University, Denmark, invites applications for a Tenure Track Assistant Professor position in the Structural Dynamics and Geotechnical Engineering Section, with a focus on the Lifetime Extension of Structures.

We are particularly interested in candidates whose research emphasizes structural health monitoring, dynamics, and system identification, and who have significant experience in applying Machine Learning (ML) and Artificial Intelligence (AI) to these areas. Applicants with theoretical, numerical, experimental, or combined research backgrounds are encouraged to apply. We also welcome cross-disciplinary profiles that can contribute to enhancing collaboration across fields.

Expected start date
This is a full-time position expected to be started on 1st February 2026 or as soon as possible thereafter.

Job description
The selected applicant is expected to develop an international research profile, with the long-term aim of establishing an internationally recognized research group within their field. An established record, or significant potential, in securing external research funding will be an important part of the role.

Teaching responsibilities will include the supervision of BSc and MSc students, as well as co-supervision of PhD candidates. The applicant may also be asked to design and deliver a specialized course aligned with their proficiency in certain topics, thereby contributing to the continued development of the Department's educational programmes.

The candidate will be expected to engage in the Department's strategic development, including participation in relevant committees and contributions to the realization of its long-term research goals.

Finally, the applicant should contribute to advancing the use of Machine Learning (ML) and Artificial Intelligence (AI) within the Department's research and teaching activities.

Qualifications
The ideal applicant should have a well-documented research background in structural health monitoring, system identification, and/or optimization. Candidates are expected to hold an academic background in civil, electrical, or mechanical engineering, with a preferred focus on structural dynamics, signal processing, IT, machine learning, or applied mathematics.
Professional industrial experience is desirable. Applicants should have at least two years of postdoctoral research or equivalent industrial experience following the completion of their PhD. A demonstrated ability to attract and manage external research funding in the relevant areas will be considered an advantage.

Teaching experience is also preferred, and the candidate should be capable of delivering structured lectures at both BSc and MSc levels. Responsibilities will include the supervision of BSc and MSc students and the co-supervision of PhD candidates. The chosen applicant may also be expected to develop a specialized course within their technical field and to contribute to securing externally funded research projects.

Who we are
The Department of Civil and Architectural Engineering was established on January 1, 2021, as part of Aarhus University's reorganization of its engineering activities. The department has around 100 staff members and is responsible for both research and education within its scientific fields. We educate Bachelors and Master of Science in Engineering, with approximately 1,000 students currently enrolled, and we also offer an advanced PhD program. Our PhD students demonstrate high academic potential and deliver impressive results that benefit both the private and public sectors.
Through our research and development activities, we work to create sustainable technological solutions to some of society's most pressing challenges. We make continuous contributions to the green transition, addressing issues such as construction, building energy systems, indoor climate, geotechnics, environmental and climate adaptation, among others.
Our research spans from fundamental studies to applied solutions, with an emphasis

Application Deadline:
22 October 2025

Faculty:
Faculty of Technical Sciences

Institute/Faculty:
Department of Civil and Architectural Engineering

Academic contact person:
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Vacant positions:
1

Hours per week:
37

Expected date of accession:
01/02/2026

on transforming new knowledge into practical tools and methods for industry. We collaborate closely with a wide range of public and private partners, ensuring that innovation is driven by real-world needs and that our results are firmly anchored in practice.
Building on our expertise in materials, architectural design, and technology, the department also provides research-based public sector services and consultancy to agencies and ministries, thereby contributing to evidence-based policy and practice.

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.

Tenure Track Program at Science and Technology
Aarhus University offers expert scientists from around the world attractive career perspectives via the Science and Technology Tenure Track Program. Highly qualified candidates will be appointed for a period of six years with the prospect of performance-based advancement to a tenured position.

The aim of the Science and Technology Tenure Track Program is to:

- attract exceptionally qualified individuals that are distinguished at an international level
- promote the early development of independent research success early in the career of scientists
- create transparency in the academic career path.

As part of the tenure track position, the candidate will be offered:

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

As part of the Aarhus University Tenure Track Program, 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 will be conducted after five and a half years. If the review is positive, the candidate will be offered a tenured position as Associate Professor/Senior Researcher at Aarhus University.

Please refer to the tenure track guidelines for the tenure review criteria and process.

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 22nd October 2025.

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.

If you wish to add a referee **after** you have submitted your application, you must send this person's details (name, job title, place of work, and email address) as well as the name of the position you have applied for to: HR.Nattech@au.dk

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 Civil & Architectural Engineering 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 based on 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 partners. Read more here. Please find more information about entering and working in Denmark here.

The application must be submitted via Aarhus University's recruitment system, which can be accessed under the job advertisement on Aarhus University's website.

Aarhus University

Aarhus University is an academically diverse and research-intensive university with a strong commitment to high-quality research and education and the development of society nationally and globally. The university offers an inspiring research and teaching environment to its 38,000 students (FTEs) and 8,300 employees, and has an annual revenues of EUR 935 million. Learn more at www.international.au.dk/