Associate Professorship(s) in Cyber-physical Systems

Husk ved opsætning:

Overskrifter sættes med forThe Department of Business Development and Technology (BTECH) at Aarhus BSS, Aarhus University invites applications for associate professorship positions in cyber-physical systems.

An associate professorship is a full-time permanent position. The starting date is 1 August 2025 or as agreed upon.

Associate professors split their time evenly between research and teaching activities. The successful candidates will join the EngTech research section.

Job description

At BTECH, we have a strong focus on company collaboration, which is reflected in our research and study programmes. We expect you to push the research frontier through applied research. If you also have the competences to enhance our students' educational development and contribute to knowledge building in companies, you might be just the person we are looking for.

We expect you to have a strong background as mechanical, production, system, electrical/electronic, mechatronics engineer or similar, and that your areas of interest lie within two or more of the following disciplines:

• Cyber-physical systems in product development, smart manufacturing and/or smart energy systems.
• Production automation related to physical production and production technologies, including robotics, haptics, automation and similar technologies.
• Product lifecycle management, including relationships between product design, product development, production and recycling/decommissioning.
• Complex manufacturing systems and layouts, including machining, assembly, modularisation, automation, stocking and digitalisation.

Candidates are expected to teach and supervise students at all levels, including supervision of PhD students. Our study programmes include, among others, an MSc in Engineering (Technology Based Business Development) as well as two Bachelor of Engineering programmes in Forretningsudvikling (Business Development) (cyber-physical systems/product and system development) and Global Management and Manufacturing (production and manufacturing systems). Candidates should therefore be prepared to teach courses in one or more of the following topics: Product development (IoT/CPS/mechatronics), additive manufacturing, automation, simulation modelling and/or mechanics.

Your qualifications

Employment as an associate professor requires a PhD degree and a strong academic background as assistant professor or equivalent. Furthermore, we prefer applicants with the following qualifications:

- A proven record of strong international research, as evidenced by publications in highly reputed international journals.

- A track record of excellence in teaching on topics relevant for our study programmes.

- A clear, well-developed and viable strategy for future high-level research.

- A track record of good citizenship in the wider academic community combined with a commitment to contributing to a vibrant work environment in our department.

- A commitment to sharing insights and knowledge with the broader society and prioritising dialogue with practitioners.

- A commitment to teaching that provides students with relevant competences as well as the ability to reflect critically on business topics.

- A willingness to engage in external research funding activities.

Applicants are encouraged to describe how their research is important for industry. The description could include concrete collaborations, impact, dissemination activities, etc.

Non-Danish speakers are required to acquire a reasonable knowledge of the Danish language within three years. The department will grant time off from teaching to attend Danish courses during the first two years of employment.

Permanent employment as associate professor at Aarhus BSS requires the completion of a supervision course as well as the course 'Online and blended learning' provided by Centre for Educational Development at Aarhus University. If these courses are not completed prior to the commencement of employment, continued employment will be conditional on their completion within a two-year period.

Who we are

BTECH is part of Aarhus BSS, Aarhus University – a top 100 university. BTECH is located in the business-oriented and entrepreneurial city of Herning. The department excels in business, IT and engineering disciplines, with a strong emphasis on company collaborations. We have around 1,200 students and close to 100 faculty and staff. Each year, approximately 500 students are involved in company projects in more than 250 companies ranging from SMEs to leading multinationals. Our incubator Business Factory launches ten new companies annually.

We influence society through business development and technology. For this reason, many research projects are conducted in close collaboration with industry, based on new data and emerging technologies. These projects are generously supported by the ERC, Horizon Europe, the Independent Research Fund Denmark and the Danish Industry Foundation, among others.

More information about BTECH is available here.

Further information

For further information about the position and the department, please contact Section Head Mirko Presser: tel. +45 3049 0976; email mirko.presser@btech.au.dk.

If you need help uploading your application or have any questions about the recruitment process, please contact HR Supporter, Charlotte Thomsen, tel.: +45 8716 5362; email: charlotte@au.dk,

Place of work

Birk Centerpark 15, DK-7400 Herning

Application deadline

1 April 2025

Previously submitted applications will be taken into consideration unless they are withdrawn

International applicant?

Aarhus University offers a broad variety of services for international researchers and accompanying families, including relocation service and career counselling to expat partners. Please find more information here:
https://internationalstaff.au.dk/relocationservice/

Please find more information about research opportunities at Aarhus University here:
http://international.au.dk/research/

Terms of employment

The appointment is made in accordance with the Memorandum on Job Structure for Academic Staff at Danish Universities as well as the circular on the Collective Agreement for Academics Employed by the State (in Danish).
The job content and qualification requirements are described in further detail in the Ministerial Order on the Appointment of Academic Staff at Universities.

Application procedure

When you apply for this position it is mandatory to attach the following:

- Application
- Curriculum Vitae. You are encouraged to declare any periods of leave without research activity, including, for example, maternity leave, since your research activities are assessed in relation to your actual research time
- Education (diploma for master's, PhD and possibly higher doctoral degree)
- List of publications (the enclosed publications must be clearly marked on the list of publications)
- Publications. Up to five publications can be included in the application. In the

event of several authors the publications must be accompanied by a co-author statement concerning the applicant's share of the collaborative work with the consent of the co-authors. [This template may be used for the purpose](#)

- Teaching portfolio. The specific requirements regarding the documentation can be found [here](#)

 Materials which cannot be uploaded together with the application may be submitted in five copies to Aarhus BSS HR & PhD, Aarhus University, Tåsingegade 1, 2nd floor, DK-8000 Aarhus C.

Read more about how to apply for an academic post at Aarhus BSS [here](#)

The evaluation process

After the application deadline, an assessment committee is appointed. Please note that the assessment of applicants is based solely on the material received prior to the application deadline. For further information, see [Guidelines for Assessment Committee, Aarhus BSS](#).

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.

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/