Associate professor in Atmospheric chemistry and air quality measurements

The Department of Environmental Science at Aarhus University, Roskilde, invites applications for a position as Associate Professor in atmospheric chemistry and air quality measurements, to strengthen the research capacity and research-based advisory activities at the department.

Application Deadline:
25 June 2025

Institute/Faculty:
Department of Environmental Science

Faculty:
Faculty of Technical Sciences

Academic contact person:
Lise Lotte Sørensen
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Vacant positions:
1

Hours per week:
37

Expected date of accession:
01/09/2025

Expected start date and duration of employment

The position is to be filled by September 1, 2025, or as soon as possible thereafter. This is subject to negotiation.

Job description

The selected candidate in atmospheric chemistry and air quality measurements will be expected to:

- Take an active role in the department's advisory activities of Danish and European authorities as well as private companies
- Actively engage in externally funded research programs within air quality and health effects in outdoor as well as indoor environments
- Contribute to the implementation of new measurement techniques.
- Take active part in collaboration with colleagues and developing and enhancing interdisciplinary collaboration both internally and externally. The latter with both national and international partners
- Actively contribute to the project portfolio in the department by taking part in applications for externally funded research and advisory projects
- Contribute to the development of professional courses within environmental science
- Take active part in teaching and supervision/co-supervision of students (bachelor/master/PhD) and post-doctoral researchers and mentoring their career development

Your profile

The position requires a solid background in environmental chemistry. Strong qualifications within atmospheric measurement techniques are expected. Experience in applying atmospheric measurements to study chemical processes affecting the air quality in relation to environment and health will be highly desirable. Good communication skills and experience in cooperating with end users and political decision makers is an advantage. If the native language of the candidate is not Danish, then the candidate is expected to learn Danish within 1-2 years to be able to carry out advisory work for Danish authorities in Danish.

Applicants applying for the associate professor position should as a minimum hold scientific qualifications at the PhD graduate level, and have at least 5-6 years of post-doctoral experience, with extensive publication accomplishments and a history of securing external research funding. Participation in national and international research networks is expected.

Department of Environmental Science

The Department of Environmental Science is an interdisciplinary department under the Faculty of Technical Sciences at Aarhus University. The expertise of the department ranges from physics, chemistry, microbiology, social science, geography, economics, to policy analysis. Basic as well as applied research are conducted on some of the major challenges facing society, such as pollution and pollution control mechanisms, management of land, soil, water, air and biodiversity, protection of ecosystem services, and climate change. Advisory services within these areas are offered to ministries and other authorities. Currently, about 150 staff and PhD students are working in the department. The department believes in values of equality, diversity and inclusion, and creating an attractive work/life balance. Further information can be found at

www.envs.au.dk.

The selected candidate will be affiliated with the Section for Atmospheric Measurements. The section carries out work in the field of physical and chemical processes that control the level and trend of air quality development and atmospheric deposition. The group undertakes national air quality monitoring, and is active in the areas of research, consultancy, monitoring, and teaching. The research focuses on the impact of air quality on human health, nature, the aquatic environment, and interaction with the climate. The aim is to provide state-of-the-art capacity in Denmark for research, development, application, teaching, and decision support within the area of atmospheric processes and air quality.

What we offer

The work will take place in close collaboration with other groups in the Department working with topics like emission inventories, atmospheric modelling, environmental chemistry, microbiology, environmental economics, environmental social science, and environmental geography.
Expertise within the section includes:

- Atmospheric chemistry including aerosol formation and transformation
- Atmospheric aerosol physics
- Bioaerosols
- Atmosphere-surface fluxes and atmospheric boundary layer composition and structure
- Air quality and climate change effects
- Emission, transport, chemical conversion and effects of climate pollutants (Greenhouse gasses as well as Short-lived-climate-pollutants)
- Decision-support to policy makers within emissions, source apportionment, air quality and deposition assessment, health impacts, and related socio-economic costs, impact assessment of policy measures as well as information to the public about air quality

Taking part in integrated monitoring where state of the environment is assessed through combined use of measurements and model calculations

Place of work and area of employment

The place of work will be at Aarhus University, Frederiksborgvej 399, 4000 Roskilde, Denmark, and the area of employment is Aarhus University with related departments. The city of Roskilde (www.roskilde.dk) is located close to Copenhagen. The area provides immediate access to a wealth of cultural and recreational pursuits.

International candidates may find information concerning living and working in Denmark at www.workindenmark.dk . AU International Center offers a full range of services to make your transition to Denmark as smooth as possible (http://www.au.dk/en/internationalcentre/ias).

Contact information

Further information may be obtained by contacting Head of Section; Atmospheric measurements, Professor Lise Lotte Sørensen +45 30183119 or Head of Department, Professor Carsten Suhr Jacobsen csj@envs.au.dk +45 87158701.

Deadline

Applications must be received no later than June 25.

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.

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/