

Assistant professor in Analysis and Modelling of Nitrogen Cycling, Losses and Emissions in Cropping Systems

The Department of Agroecology at Aarhus University, Denmark, is offering a position as Assistant professor focusing on nitrogen flows in agricultural systems. The position will be available from 01-09-2026 or as soon as possible thereafter. The position will be available for a 3-year period.

You will be part of a research environment focusing on soil biogeochemistry and fertility. You will be contributing specifically to the area of nitrogen flows, losses and emissions in agricultural systems, their quantification and modelling, as well as their relation to crop fertility and productivity. The main focus of your position will be on quantifying and modelling nitrogen leaching losses and their response to different mitigation strategies and management choices in agricultural systems. You will work experimentally with new and established field experiments, including long term experiments, which involve cover crops, reduced tillage, and different fertilizer application amounts and methods, among other things. This project aims to improve the evaluation of nitrogen losses in cropping systems by analyzing experimental results and carrying out process-based modelling. Additionally, you will apply your research findings to contribute to the Department's science-based policy support activities for the Danish government.

We expect that you will be an important part of the research environment and that you will contribute positively to the social working environment. We also expect that you will take part in our teaching activities and that you will report research results in high-impact scientific journals.

Your profile

We are searching for a highly motivated candidate who has

- A PhD in agronomy, soil science, environmental science or similar
- Collaborative skills and ability to participate actively in teams
- A genuine interest in nitrogen cycling, losses and emissions in agriculture
- Research experience in the area of agroecosystem modelling
- Documented experience in scientific writing and publication in peer-reviewed scientific journals
- Teaching and supervision experience at BSc, MSc and PhD level
- Experience in contributing to writing research proposals for external funding
- Networking experience

Further, we will prefer candidates with some of the following qualifications:

- Experience in planning and conducting fieldwork
- Experience in planning and conducting laboratory work as well as in soil columns and mesocosms
- Insight into management and quantitative analysis of large long-term datasets
- Experience with ecosystem modelling and supporting experimental work, such as tracer experiments, for improved understanding of nutrient and water transport in soils
- Experience with advanced techniques, such as μ CT imaging, for improved understanding structural changes in soils in different cropping systems

Who we are

At the Department of Agroecology, our main goal is to contribute to sustainable solutions to some of the world's biggest problems within the areas of soil, plants, animals, humans, and the environment. We want to make a difference by contributing to both fundamental knowledge generation and the attainment of sustainable production systems via innovative research, contracted policy advice, and education. We offer professional laboratories, greenhouses, semi-field, and field-scale research facilities, advanced computing capacities as well as an extensive national and

Application Deadline:
13 April 2026

Institute/Faculty:
Department of
Agroecology

Faculty:
Faculty of Technical
Sciences

Academic contact person:
Jørgen Eriksen
Professor,
sektionsleder
+4587157672
jorgen.eriksen@agro.a
u.dk
+4551680554

Vacant positions:
1

Number of months:
36

Hours per week:
37

Expected date of accession:
01/09/2026

international researcher network. The department consists of eight research sections with around 320 highly dedicated employees, of which approximately 50% are scientific staff. More information can be found [here](#).

We believe in encouraging inclusion, acceptance, and understanding by employing individuals- who bring unique perspectives to our department.

What we offer

- An informal and multicultural research environment with high professionalism, where accountability, commitment, helpfulness, flexibility, and close collaboration is a prerequisite solving the core tasks
- A good social environment with activities and routines that make it possible to talk across and strengthen the inclusive relationship, and where mutual trust, respect, kindness, and professional sparring are emphasized
- A flexible workplace with a good work-life balance
- A workplace where we work actively with diversity, equity and inclusion
- An exciting and varied working environment, where two days rarely resemble each other. We are often busy, and we work creatively for solutions to societal challenges
- Subsidized preschool childcare and a free education system from primary school up to university level
- Universal health insurance as a resident of Denmark, including family members officially residing in Denmark
- Five weeks paid holiday per year
- In connection with childbirth: the right to have a total of 52 weeks shared maternal/paternal leave with full or partial salary pay

Place of Work

The place of work is Aarhus University, Campus Viborg, Blichers Alle 20, 8830 Tjele. The affiliation will be with the Department of Agroecology.

More information can be obtained from Professor, Head of Section, Jørgen Eriksen (Jorgen.eriksen@agro.au.dk), phone: +4551680554, +4587157672.

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/