

# Assistant professor position (non-tenured) in molecular dynamics simulations of plant hormone transport, Aarhus University, Denmark

The Plant-PATH center and the Pedersen group at the Department of Molecular Biology and Genetics, Aarhus University, Denmark, are looking for a highly skilled and motivated assistant professor with expertise in molecular dynamics simulations on membrane proteins. The position is advertised for 3 years of employment and with a start date in October 2026.

## Expected start date and duration of employment

The funding is provided for 2 years of employment. The expected start date is 20 April 2026.

## Job description

The position is intended to strengthen the Plant-PATH (Center for Active Transport of Plant Hormones) by providing expertise in molecular dynamics simulations applied to plant membrane transporters, elucidating the underlying biophysical mechanisms of hormone transport. The selected candidate will work closely with the laboratory of Bjørn Pedersen at the Department of Molecular Biology and Genetics, Aarhus University.

## Your profile

We are looking for a highly skilled and motivated assistant professor with an interest in working on plant membrane proteins using *in silico* methods for exploring protein conformational landscape, with a focus on molecular dynamics simulations.

The candidate must have:

- A proven track record in the area of molecular dynamics simulations with experience in working on membrane proteins.
- A history of peer-reviewed publications in the relevant field

A successful candidate has

- A relevant Ph.D. degree and a documented background in molecular biology and biochemistry.
- Experience in performing and analysing molecular dynamics simulations. Proficiency in Python or comparable programming language is an advantage.
- Demonstrated experience in supervising students (on a Bachelor's and/or Master's level), building and maintaining collaborations, and independently leading research projects.

Finally, applicants should

- Be ambitious,
- Show strong collaborative skills
- Have a high degree of independence
- Be able to take initiatives and responsibility within the work environment.

## Who we are

Situated in a newly renovated laboratory complex within the central campus of Aarhus University, The Department of Molecular Biology and Genetics comprises a vibrant research and education environment. The department currently has 75 full time scientific staff, 95 PhD students and a yearly uptake of around 160 students housed in the same building ensuring a lively setting.

The department has access to state-of-the-art high-performance computing (HPC)

**Application Deadline:**  
20 April 2026

**Institute/Faculty:**  
Department of  
Molecular Biology and  
Genetics

**Faculty:**  
Faculty of Natural  
Sciences

**Academic contact  
person:**  
Bjørn Panyella  
Pedersen  
Professor  
bpp@mbg.au.dk  
+4529723499

**Vacant positions:**  
1

**Number of months:**  
36

**Hours per week:**  
37

**Expected date of  
accession:**  
01/08/2026

facilities, including Center for Scientific Computing Aarhus (CSCAA) and GenomeDK. Applying for other computing resources on European HPCs (i.e., LUMI through DeiC) is supported.

Please refer to <http://mbg.au.dk/> for further information about The Department of Molecular Biology and Genetics and to <https://nat.au.dk/> and <http://www.au.dk/> for information on Faculty of Natural Sciences and Aarhus University, respectively.

### **The city of Aarhus**

In Aarhus you have easy access to beautiful nature, an exciting culture and city life as well as a safe environment for children - a great place for the whole family. The city of Aarhus has everything you need within a surprisingly small area: exciting national and international jobs, delightful residential areas, a rich cultural life, and beautiful surrounding landscape of woods and coastline that make Aarhus a wonderful place to live and work. See "life in Denmark" at [Aarhus and surroundings \(au.dk\)](#) for further details on the city and the university.

### **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 Universitetsbyen 81, 8000 Aarhus C, and the area of employment is Aarhus University with related departments.

### **Contact information**

For further information, please contact Associate Professor Bjørn Panyella Pedersen ([bpp@mbg.au.dk](mailto:bpp@mbg.au.dk)).

### **Deadline**

Applications must be received no later than 20 April 2026.

### **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.

### **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**

Natural 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.

At the Faculty of Natural Science at Aarhus University, we strive to support our scientific staff in their career development. We focus on competency development and career clarification and want to make your opportunities transparent. On [our website](#), you can find information on all types of scientific positions, as well as the entry criteria we use when assessing candidates. You can also read more about how we can assist you in your career planning and development.

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 37,000 students (FTEs) and 8.700 employees and has an annual revenue of EUR 1.106 billion. Learn more at [www.international.au.dk/](http://www.international.au.dk/)*