

# Postdoc in muscle cell biology and cardiovascular research

The Department of Biomedicine at Faculty of Health at Aarhus University invites applications for a position as Postdoc in the field of muscle cell biology and cardiovascular research as per 1 July 2026 or as soon as possible thereafter. The position is a fixed-term full-time position for 3 years.

The department of Biomedicine prioritises diversity and a good work environment, as this is a prerequisite for groundbreaking research. In a diverse and international research environment, dedicated employees are looking to generate new knowledge within biomedical research areas such as infection and inflammation, membranes, neuroscience and personalised medicine. The Department of Biomedicine provides research-based teaching of the highest quality and is responsible for a large part of the medical degree programme. Academic staff contribute to the teaching. English is the preferred language in the laboratory, at meetings and at seminars. The department employs approx. 500 people from all over the world, and they make use of the department's modern laboratory-, core- and animal facilities. The Department of Biomedicine focuses on innovation, entrepreneurship and collaboration with business and industry, and numerous researchers from the department have established companies to develop new medicinal treatments founded in professional scientific basic research. You can read more about the department [here](#) and about the faculty [here](#).

## About the research project

The project pursues molecular mechanisms underlying the development of cardiomyopathy and heart failure. We use genetically engineered (e.g. gene knockout) and environmentally induced (e.g. high fat diet) animal models to mimic heart failure forms found in patients. Of specific interest are pathological alterations in cardiac signalling pathways, which lead to altered gene programs, and changed posttranslational modifications in cardiac substrate proteins. Another focus forms deciphering cellular effects of autocrine and/or paracrine signalling by nitric oxide, stemming either from cardiac endothelial cells or cardiomyocytes.

## Your job responsibilities

As Postdoc in muscle cell biology and cardiovascular research, your position is primarily research-based but may also involve teaching assignments. You will contribute to the development of the department through research of high international quality. In your daily work, you will work closely with colleagues on your project, where you will receive supervision and guidance.

Your main tasks will consist of:

- Independent research of high international quality, including publication and grant applications.
- Support of ongoing research projects in the laboratory.
- Help in the supervision of at least one PhD student or junior scientist in the lab.
- Help in the organization of the laboratory.
- Present our work at national and international meetings, conferences, or workshops.
- You may also be asked to support teaching activities.

You will report to Dr. Stephan Lange, and the Head of Department for Biomedicine.

## Your competences

You have academic qualifications at PhD level, for example within the following areas insert areas. Biomedical Research, Genetics, Biochemistry, Molecular Biology, Cell Biology, Cardiac or Skeletal Muscle Physiology and/or Bioinformatics. Expertise in cardiac and skeletal muscle physiology (e.g. echocardiography, force measurements), spatial transcriptomics and/or other NGS techniques, cell biology (isolation and culture of primary rodent and human cells, standard cell culture, immunofluorescence, calcium imaging, culture and differentiation of iPSC into cardiomyocytes) and biochemistry (standard RNA, DNA and protein analyses, proteomics, proximity ligation assays - use of BioID2 or TurboID) is advantageous. Experience with animal work (rodent models) is desirable.

As a person, you have good interpersonal skills, are inclusive and team-oriented and able to contribute to a good work environment. We expect you to be fluent in oral and written English.

**Application Deadline:**  
09 April 2026

**Institute/Faculty:**  
Department of  
Biomedicine

**Faculty:**  
Faculty of Health

**Academic contact person:**  
Stephan Lange  
Lektor  
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**Vacant positions:**  
1

**Number of months:**  
36

**Hours per week:**  
37

**Expected date of accession:**  
01/07/2026

In order to be assessed as qualified for a Postdoc position, you must meet [these academic criteria](#).

Shortlisting will be used.

### Questions about the position

If you have any questions about the position, please contact Dr. Stephan Lange by phone: +45 81506554

Your place of work will be the Department of Department of Biomedicine, Skou Building, Høegh-Guldbergs Gade 10, C. F. Møllers Allé 6, 8000 Aarhus C, Denmark. Some work may be performed at the Steno Diabetes Center Aarhus.

We expect to conduct interviews starting week 16, 2026.

### Terms of employment

- Appointment as a postdoc requires academic qualifications at PhD level.
- Further information on the appointment procedure can be found in the [Ministerial Order on the Appointment of Academic Staff at Universities](#).
- The appointment is in accordance with the [Danish Confederation of Professional Associations](#) (Akademikerne).
- Remuneration is in accordance with the above, and the [Salary agreement catalogue for staff at Health](#).
- The yearly base salary for a fulltime postdoc is between DKK 484.214,84 and DKK 538.720,20 depending on the years of working experience after achieved MSc degree. The base salary includes a position related supplement and pension (17.1 %). Additional supplement(s) for special qualifications can be negotiated. Authorisation supplement(s) will be granted, if relevant for the position. Your local eligible trade union representative at Aarhus University negotiates your salary on your behalf.
- Researchers recruited from abroad are offered a [special researcher tax scheme](#) with a lower tax rate.
- Further information on qualification requirements and job description can be found in the [Ministerial Order on Job Structure for Academic Staff](#)

### Application

Your application must include the following:

- Motivated application
- Curriculum Vitae
- Diploma
- [Template for applicant - postdoc](#)
- A list of publications
- A teaching portfolio. We refer to [Guideline on the use of teaching portfolios](#)
- A maximum of five of the publications of greatest relevance to the job may be submitted (optional)
- Research plan can be uploaded (optional)
- Coauthor statement(s) can be uploaded (optional)
- References/recommendations can be uploaded separately in the e-recruitment system (optional)

We refer to the faculty's [Guidelines for applicants](#).

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.

### International applicant?

Aarhus University offers a broad variety of services for international researchers and accompanying families, including assistance with relocation and career counselling to expat partners. Please find more information about the International Staff Office and the range of services [here](#). Aarhus University also has a Junior Researcher Association and offers career development support. You can read more about these resources [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/)*