

# Research Assistant with an option for PhD study at Health, Aarhus University

The Department of Biomedicine at Faculty of Health at Aarhus University invites applications for a position as research assistant in cardiovascular research as per 1 April 2022 or as soon as possible thereafter. The position is a fixed-term full-time position for 6 months.

We offer a vibrant international research environment where English is the preferred language in the laboratory, at meetings and at seminars. The Department employs some 500 people and covers a range of research areas within Biomedicine. We contribute to the Bachelor's degree programs in medicine, molecular medicine, odontology and the Master's degree programs in biomedical engineering and medical chemistry. Our infrastructure is well developed with modern laboratories, core and animal facilities. You will work either in the brand new 'Skou Building' or similar as we are in the process of modernizing our old facilities. You can read more about the department [here](#) and about the faculty [here](#).

## The project

The research groups in Metabolism at Department of Forensic Medicine, Aarhus University have found a pivotal pathway that is possible to modulate by drugs obtaining significant beneficial effects on health. In collaboration with the research group in Pulmonary and Cardiovascular Pharmacology, Aarhus University, the results were initially validated in mice. We now seek a research assistant that can help taking the project a step further in more elaborate animal studies. The main force of the group in Pulmonary and Cardiovascular Pharmacology is translational science and experience in pharmacological studies in cell cultures and tissue samples from patients and animals, as well as participation in clinical studies.

Fat and sugar metabolism affect the biological aging process, and hence also the early cardiovascular aging. Metabolomic studies have identified pivotal pathways of importance for cellular metabolism. Moreover, a systematic approach have revealed that it is possible to modulate these pathways by use of small molecules towards a favorable metabolic profile. The current project will test the hypothesis that these molecules can improve the metabolic profile in normal and obese/diabetic animal models.

## Your job responsibilities

As research assistant, your primary tasks are to conduct cardiovascular research and prepare and participate in testing of novel drugs in animal studies. You contribute to the development of the department through teaching and research of high international quality. In your daily work, you have a close interaction with competent colleagues.

Your main tasks will consist of:

- Cardiovascular research.
- teaching and assignment supervision.
- To conduct animal experiments to test the hypothesis developed in cell studies.
- To measure blood pressure, blood and tissue sampling.
- To perform qPCR and protein expression by performing Western blot and immunofluorescence.
- To conduct a research project, under supervision of Prof. Ulf Simonsen and Prof. Mogens Johannsen.
- To participate in weekly team meetings to update your research results to your colleagues as well as to high-level seminars to disseminate your findings.
- To support the writing of papers and grants, design of experiments, etc.
- To elaborate a 3-year Ph.D. plan based on the hypothesis of the current project.

You will report to the Professor Ulf Simonsen.

## Your competences

- You have a masters degree (120 ECTS) in pharmacy, biology/biomedicine, biomedical engineering or related field.
- You may have some experience in animal studies and/or research.

**Application Deadline:**  
08 March 2022

**Faculty:**  
Faculty of Health

**Institute/Faculty:**  
Department of  
Biomedicine

**Academic contact person:**  
Ulf Simonsen  
Professor  
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**Vacant positions:**  
1

**Hours per week:**  
37

**Number of months:**  
6

**Expected date of accession:**  
01/04/2022

- You have a curious mind and dare to take risks.
- You have a strong commitment to basic/clinical research.
- You are interested and motivated to work on ambitious projects in an open, dynamic and driven team.
- You have a hands-on attitude and are able to work in a team as well as independently.
- You have a strong ability to multi-task, meet timelines and work accurately.
- You have good communication skills in spoken and written English. We expect you to be fluent in oral and written English.

Shortlisting will be used.

### **Questions about the position**

If you have any questions about the position, please contact Prof. Ulf Simonsen: [us@biomed.au.dk](mailto:us@biomed.au.dk) tel.: (+45) 6022613 or Prof. Mogens Johansen: [mj@forens.au.dk](mailto:mj@forens.au.dk).

Your place of work will be the Department of Biomedicine, Ole Worms Allé 4, DK-8000 Aarhus C, Denmark.

We expect to conduct interviews in week 13.

### **Terms of employment**

- Appointment as a research assistant requires academic qualifications at master's degree 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](#).
- Further information on qualification requirements and job description can be found in the [Ministerial Order on Job Structure for Academic Staff at Universities](#).

### **Application**

Your application must include the following:

- Motivated application
- Curriculum Vitae
- Diploma
- [Template for applicant - other academic positions](#) must be completed and uploaded under 'Extra documents'
- A list of publications can be uploaded if relevant for the position
- A teaching portfolio can be uploaded if relevant for the position. We refer to [Guideline on the use of teaching portfolios](#)
- References/recommendations can be uploaded separately in the recruitment system

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

The assessment committee may decide to include non-submitted material in its statement. In such cases, you will be informed and obliged to submit material, unless your application is withdrawn.

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 39,000 students (FTEs) and 8,000 employees, and has an annual revenues of EUR 884 million. Learn more at [www.au.dk/en](http://www.au.dk/en)*