

Postdoc in cardiorenal metabolism

The Department of Biomedicine at Faculty of Health at Aarhus University invites applications for a position as Postdoc in the field of Metabolism as per 1 May 2025 or as soon as possible thereafter. The position is a fixed-term full-time position for 2 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

You will be involved in metabolic and physiological studies to address metabolic organ communication in a cardiorenal-metabolic project. You will work with mouse models of human disease and perform phenotyping. In addition, you will utilize mass spectrometry (metabolomics, proteomics, chemical biology) to define metabolic targets. You will be the primary driver of the project, working independently with ample resources. This position offers a unique opportunity to combine your expertise in mouse metabolism with a willingness to learn and apply state-of-the-art mass spectrometry techniques, as well as develop or apply coding skills (R/Python) for large-scale data analysis.

Your job responsibilities

As Postdoc in cardiorenal metabolism 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 in peer-reviewed journals.
- Planning and conducting in vivo experiments in mouse models of metabolic and cardiovascular disease.
- Phenotyping and analyzing mouse metabolism (e.g., glucose and lipid metabolism, energy expenditure, organ histopathology).
- Implementing and applying mass spectrometry-based techniques (metabolomics, proteomics, chemical biology) to identify and characterize metabolic pathways and targets.
- Data analysis and integration using R and/or Python, including statistical analysis, visualization, and multi-omics data handling in collaboration with the team.

Collaborating within an interdisciplinary team, including potential teaching or supervision responsibilities.

You will report to the Markus Rinschen, Associate Professor.

Your competences

You have academic qualifications at PhD level, for example within (but not limited to) the following areas: metabolism, physiology, molecular biology, pharmacology, or biochemistry. Candidates with strong experience in rodent models of disease and/or

Application Deadline:
06 March 2025

Faculty:
Faculty of Health

Institute/Faculty:
Department of
Biomedicine

Academic contact person:
Markus Rinschen
Lektor
rinschen@biomed.au.dk

Vacant positions:
1

Hours per week:
37

Number of months:
24

Expected date of accession:
01/05/2025

mass spectrometry are especially encouraged to apply. Experience or strong interest in coding (R/Python) for data analysis is highly desirable.

We expect the ideal candidate to:

- Have hands-on experience in mouse handling and phenotyping (e.g., metabolic cages, glucose tolerance tests, tissue collection).
- Be motivated to learn and apply advanced mass spectrometry approaches or novel microphysiological methods.
- Possess or be willing to develop coding skills (R or Python) for large-scale metabolomics and/or proteomics data analysis.
- Demonstrate a track record of publication(s) in international peer-reviewed journals (commensurate with career stage).

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.

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 Markus Rinschen: rinschen@biomed.au.dk.

Your place of work will be the Department of Biomedicine, insert address, DK-8000 Aarhus C, Denmark.

We expect to conduct interviews as soon as possible.

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)

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 38,000 students (FTEs) and 8,300 employees, and has an annual revenues of EUR 935 million. Learn more at www.international.au.dk/