

Department of Biomedicine - Forskning og uddannelse, Syd - Faculty: Health

# RE-ADVERTISEMENT: Postdoc in Endothelial Cell Plasticity

The Department of Biomedicine at Faculty of Health at Aarhus University invites applications for a position as Postdoc in **The Laboratory for Renal Cell Remodelling and Regeneration** as per 1 December 2022 or as soon as possible thereafter. The position is a full-time position for 2 years.

The ideal applicant is highly motivated and dedicated to study endothelial plasticity, has excellent communication

skills and works independently to drive their own research projects. We are passionate about our research and thrive to decipher the regenerative potential of the kidney for future drug development. We work hard and play hard, support each other and have lots of fun together!

The Department of Biomedicine prioritizes diversity and a good work environment, as this is a prerequisite for groundbreaking research. In a dynamic and international research environment, dedicated employees are looking to generate new knowledge within biomedical research areas such as infection and inflammation, membranes, neuroscience and personalized medicine. The Department of Biomedicine provides research-based teaching of the highest quality and is responsible for a large part of the medical degree program. 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 strong scientific basic research. You can read more about the department here and about the faculty here.

## About the research group:

We study pathways of renal cell remodelling and regeneration, using (serial) intravital 2-photon microscopy

Deadline  
**31 Oct 23:59 CET**

Expected start  
**1 Dec**



Department of Biomedicine - Forskning og uddannelse, Syd  
Wilhelm Meyers Allé 3  
8000 Aarhus C

Fixed term full-time position  
1 Dec 2022 - 30 Nov 2024

ID: 10318

of the kidney in combination with a variety of other state-of-the-art techniques, such as genetic cell fate tracing, immunohistology, optical tissue clearing techniques, electron microscopy and single cell RNA sequencing.

The Laboratory for Renal Cell Remodelling and Regeneration is led by Assistant Professor and NNF Emerging Investigator, Ina Maria Schiessl. We are supported by a major 5-year grant for the project related to the open position, ensuring ample project funding. To learn more about the lab and our vision, please have a look at our homepage: <https://biomed.au.dk/schiessl-lab/>

The Laboratory for Renal Cell Remodelling and Regeneration is integrated into the “Membranes” research section at the Department of Biomedicine, Aarhus University, Denmark here, which involves more than 25 excellent research groups in the field. The scientific environment is vibrant, highly collaborative and offers excellent career development programs and events. Furthermore, we collaborate with renowned laboratories across the globe and put high focus on presenting our results at international conferences.

## **About the research project**

We are looking for an outstanding postdoc to explore endothelial cell plasticity in diabetes. The project demands a multi-disciplinary approach and combination of state-of-the-art technologies, including, in vivo 2-photon microscopy, cell lineage tracing, endothelial cell isolation and enrichment and single cell RNA sequencing. The goal of the study is to discover novel pathways and pharmaceutical targets of endothelial cell plasticity in vivo.

## **We are looking for you!**

You are fascinated to unravel how endothelial cells structurally and functionally contribute to disease onset and progression in the living kidney? With us you will acquire the skills to watch and track them in vivo and over time using intravital microscopy and to decode their molecular expression patterns in disease settings. Based on our preliminary results you will further develop your own project and investigate endothelial cell plasticity in different stages of diabetic kidney disease. You will collaborate with other members of the laboratory and with our core collaborators at the department, and you will be expected to develop expertise in areas necessary for successful progress of your project. If you aim to pursue your next career step with us, please outline your motivation for this position in your cover letter and tell us how your experience and expertise relate to the project.

As Postdoc in endothelial cell plasticity, 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. The work related to the project will take place at the Department of Biomedicine, and the successful candidate will be integrated into the department. You will report to Assistant Professor Ina Maria Schiessl.

## **Your competences**

As a person, you are ambitious, take ownership and possess good communication and interpersonal skills. We expect you to be fluent in oral and written English.

You hold a Ph.D. degree in bioinformatics, biophysics, molecular medicine, molecular biology or closely related disciplines.

You have experience with single cell transcriptomics and analysis using R or Python.

You have experience with cell isolation and fluorescent activated cell sorting

You have solid cell culture experience

You have a proven scientific track-record, a thorough understanding of vascular biology, and preferentially kidney physiology and diabetes.

Experience with mouse handling and image processing software, such as ImageJ, Imaris, Amira is beneficial

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 Ina Maria Schiessl, [ina.maria.schiessl@biomed.au.dk](mailto:ina.maria.schiessl@biomed.au.dk), tel.: (+45) 50201222.

Your place of work will be the Department of Biomedicine, Vilh. Meyers Allé 3, DK-8000 Aarhus C, Denmark.

We expect to conduct interviews in November 2022.

Previously submitted applications will be taken into consideration unless they are withdrawn.

## **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 465,475.74 and DKK 517.872,14 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 Or

## **Application**

Your application must include the following:

- › Motivated application
- › Curriculum Vitae
- › Diploma
- › Template for applicant - postdoc must be completed and uploaded under 'Extra documents'
- › 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)
- › Strategic 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.

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.

## **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.

## **International applicant?**

Aarhus University offers a broad variety of services for international researchers and accompanying families, including relocation service and career counselling to expat partners. Please find more information about entering and working in Denmark here. Aarhus University also has a Junior Researcher Development Programme. You can read more about it 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.*

## Questions about the position?

### **Ina Maria Schiessl**

Assistant Professor,  
Department of Biomedicine  
- Forskning og uddannelse,  
Syd



+4550201222

ina.maria.schiessl@biomed.au.dk

## Questions about application and process?

### **Health Administrative Centre - Health HR**

+4593508308

emply.he.hr@au.dk

## **Discover the benefits of working at a top 100 university**

At the Faculty of Health we conduct world-class health science research. We offer a vibrant and informal research environment with longstanding traditions for collaboration with the Danish health care sector and with international university partners in the absolute elite. The workplace at Health is reflected by professionalism, equality, and ethics, as well as attractive opportunities for career development.

The Faculty of Health is an international workplace. English is widely spoken and we welcome applicants from abroad. Read about the Danish work-life balance, special opportunities for junior researchers, and the services available when relocating to Aarhus University.

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