Academic employee for light and 2-photon intravital microscopy

The Department of Biomedicine at Faculty of Health at Aarhus University invites applications for a position as academic employee for light microscopy, specifically for 2-photon intravital microscopy within the Bioimaging Core Facility as per September 1st 2026 or thereafter. The position is a time-limited full-time position linked to the implementation and consolidation of new imaging infrastructure, data management procedures and user support pipelines, with an expected duration of 5 years. This involves establishing, developing and supporting advanced intravital 2-photon microscopy workflows within the Bioimaging Core Facility.

Department of Biomedicine

The department of Biomedicine prioritizes 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 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 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.

Bioimaging Core Facility

We currently host 15 microscopes: from widefield and slide scanners, confocals, light sheet, TIRF, high-content to *in vivo* 2-photon imaging. For data analysis, we host several PCs and a server with commercial softwares such as Arivis, Imaris, Zen blue, CellSense Dimensions, ScanR and open-source software preinstalled. https://imaging.au.dk/services-and-facilities

Your job responsibilities

As Application Specialist, your primary tasks are supporting and training users according to their imaging needs and handling the administrative and technical necessities. You will be especially responsible for 2-photon intravital imaging and all supporting activities. In addition, the successful applicant will work in close collaboration with the Bioimaging Core Facility, researchers, veterinarians and animal caretakers at the Department of Biomedicine to ensure optimal intravital imaging pipelines, e.g. implantation of imaging windows.

The role involves, but is not limited, to (1) **consultation with researchers** regarding imaging methods, sample preparation, experimental setup and analysis pipeline according to the users hypothesis as well as (2) **training and support of instrument users** and the (3) **administrative work** surrounding these activities e.g. user registration, coordinating appointments, invoicing in collaboration with economy department, budgeting and financial allocation of foreseeable maintenance costs; as well as (4) support with **infrastructure acquisition, installation and maintenance** including repairs, troubleshooting with remote support or coordinating repairs and system maintenance works (5) **method development** for intravital serial imaging, (5) **reporting activities** e.g. to the steering committee, **with focus on supporting and developing intravital 2-photon imaging pipelines from surgery to analysis**.

The successful candidate would also be involved in the **development and implementation of the data management plan** to ensure smooth data analysis and FAIR data sharing principles by e.g. creating and maintaining the necessary infrastructure and coordinate with appropriate personnel. You will also be involved in supporting **image analysis** with commercial or open-source software and have the opportunity to share your knowledge and expertise, e.g. in the form of courses, presentations or workshops to ensure open access.

You will contribute to the daily operation of the infrastructure through your expertise in light and 2-photon intravital microscopy and photomanipulation methods, analysis skills and your service-minded and friendly mindset. In your daily work, you have a close interaction with competent colleagues from different scientific backgrounds such as biomedicine, medicine, molecular biology, nanoscience, engineering and others.

Application Deadline:
25 June 2026

Institute/Faculty:
Department of Biomedicine

Faculty:
Faculty of Heatlh

Academic contact person:
Nina Glöckner Burmeister
Manager to the Bioimaging Core Facility
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Vacant positions:
1

Number of months:
60

Hours per week:
37

Expected date of accession:
01/09/2026

Optimally, you have experience in intravital 2-photon imaging, animal surgeries and photomanipulation or are willing to quickly learn.

In summary, your main tasks will consist of:

- Performing user training and supporting activities, with focus on intravital 2-photon microscopy
- Overseeing and planning system installation and maintenance
- Further development and implementation of Data Management Plan
- Administrative responsibilities
- Support with analysis software(s) for microscopy
- Research support within Biomedicine, Medicine, Molecular Biology, Engineering
- Reporting
- Familiarity with Windows-based tools, systems and IT
- Interdisciplinary collaboration
- Stay informed on technological developments

You will be integrated in the bioimaging core facility and report directly to facility manager Dr. Nina Burmeister, who holds primary authority for your role. You will consult with Assoc. Prof. Felicity Mae Davis and the Steering Committee.

Your competences

You have a background within life science or other relevant natural sciences and an academic background involving advanced fluorescent methods, optimally on 2-photon intravital imaging and photomanipulation.

As a person, you have good interpersonal skills, are inclusive and team-oriented and able to contribute to a good work environment. You enjoy supporting people from different backgrounds in their projects, identify their needs and help troubleshooting if necessary.
We expect you to be fluent in oral and written English.

Questions about the position

If you have any questions about the position, please contact Dr. Nina Burmeister (imaging@biomed.au.dk; +45 9352 1888) or Felicity Mae Davis (felicity@biomed.au.dk).
Your place of work will be the Department of Biomedicine, Høegh-Guldbergsgade 10, DK-8000, Aarhus C, Denmark.

We expect to conduct interviews in week 26 (22.6.-26.6.2026) (1st round) and if relevant week 27 (29.6.-3.7.2026) (2nd round). You may be given a case in connection with the interviews.

Terms of employment

Terms of employment and pay are regulated by the collective agreement between the Ministry of Taxation and academics in the state.

Application

Your application must include the following:

- Motivated application
- Curriculum Vitae
- Indication of education (a copy of the diplomas should be uploaded)
- References/recommendations can be uploaded separately in the recruitment system

We refer to the faculty's Guideline 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.

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/