Researcher in electronics and materials for retinal prosthesis

Are you interested in retinal prosthesis and can you contribute to the development of polymer-based devices for electrical and photovoltaic stimulation in our new VISION project? Then the Department of Electrical & Computer Engineering (ECE) invites you to apply for a 3-year researcher position (post doc level).

Application Deadline:
05 March 2026

Institute/Faculty:
Department of Electrical and Computer Engineering

Faculty:
Faculty of Technical Sciences

Academic contact person:
Rasmus Schmidt Davidsen
Tenure Track adjunkt
rasda@ece.au.dk
+4593522742

Vacant positions:
1

Number of months:
36

Hours per week:
37

Expected date of accession:
01/04/2026

Expected start date and duration of employment
This is a 3–year position from April 1st 2026 or as soon possible.

Job description
- You will be developing prosthetic devices for electrical stimulations based on different kinds of polymers.
- You will be working primarily with printing and deposition of polymers and other materials such as metals and dielectrics, but also characterization of those.
- You will be leading the laboratory work.
- These activities will be in close collaboration with our partners within microfabrication and opthalmology.

Your profile
Applicants should hold a PhD in printed electronics, polymer-based devices or similar.

Experience in printed electronics and polymer-based devices is a must.
- Experience with retinal prosthesis is an advantage.
- Ability to collaborate with people from different fields such as ophthalmology, microfabrication and photovoltaics.
- Fluent in written and spoken English.

Who we are
The Department of Electrical and Computer Engineering is one of four engineering departments at the Faculty of Technical Sciences at Aarhus University.

Our vision is to be a world-leading department for research, education and innovation in electrical and computer engineering, creating a positive and visible impact on society and the environment through interdisciplinary collaboration, excellence and diversity. Many of our research and development activities are based on the specific innovation needs or specialist application areas of specific companies. We collaborate closely both with the public sector and private companies to ensure that the knowledge and technology generated in the department’s research environments have a clear anchoring in reality and benefit society as a whole.

The position is based in the Photovoltaic Devices research group, headed by Rasmus Schmidt Davidsen, we work ambitiously with solar cell engineering and development of photovoltaics retinal implants.

Ensuring gender balance at the Department of Electrical and Computer Engineering is a high priority at Aarhus University, and we particularly encourage women to apply for this position. No candidate will be given preferential treatment, and all applicants will be assessed based on their qualifications for the position in question.

For more information about the Department of Electrical and Computer Engineering, please visit https://ece.au.dk/

See more about our activities on LinkedIn: https://www.linkedin.com/company/au-ece

What we offer
The department offers:
- a well-developed research infrastructure, laboratories and access to shared

equipment

- an exciting interdisciplinary environment with many national, international and industrial collaborators
- a research climate encouraging lively, open and critical discussion within and across different fields of research
- a work environment with close working relationships, networking and social activities
- a workplace characterised by professionalism, equality and a healthy work-life balance.

Place of work and area of employment

The place of work is Finlandsgade 22, 8200 Aarhus N, and the area of employment is Aarhus University with related departments.

Contact information

For further information, please contact: Assistant Professor Rasmus Schmidt Davidsen, rasda@ece.au.dk

Deadline

Applications must be received no later than March 5th.

Application procedure

Shortlisting is used. This means that after the deadline for applications – and with the assistance from the assessment committee chairman, and the assessment committee if necessary, – the head of department selects the candidates to be evaluated. The selection is made on the basis of an assessment of who of the candidates are most relevant considering the requirements of the advertisement. All applicants will be notified within 6 weeks whether or not their applications have been sent to an expert assessment committee for evaluation. The selected applicants will be informed about the composition of the committee and will receive his/her assessment. Once the recruitment process is completed a final letter of rejection is sent to the deselected 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.

If you wish to add a referee **after** you have submitted your application, you must send this person's details (name, job title, place of work, and email address) as well as the name of the position you have applied for to: HR.Nattech@au.dk

Formalities and salary range

Technical Sciences refers to the Ministerial Order on the Appointment of Academic Staff at Danish Universities under the Danish Ministry of Science, Technology and Innovation.

The application must be in English and include a curriculum vitae, degree certificate, a complete list of publications, a statement of future research plans and information about research activities, teaching portfolio and verified information on previous teaching experience (if any). Guidelines for applicants can be found here.

Appointment shall be in accordance with the collective labour agreement between the Danish Ministry of Taxation and the Danish Confederation of Professional Associations. Further information on qualification requirements and job content may be found in the Memorandum on Job Structure for Academic Staff at Danish Universities.

Salary depends on seniority as agreed between the Danish Ministry of Taxation and the Confederation of Professional Associations.

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.

Research activities will be evaluated in relation to actual research time. Thus, we encourage applicants to specify periods of leave without research activities, in order to be able to subtract these periods from the span of the scientific career during the evaluation of scientific productivity.

Aarhus University offers a broad variety of services for international researchers and accompanying families, including relocation service and career counselling to expat partners. Read more here. Please find more information about entering and working in Denmark 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/