

Postdoc positions in Quantum Software at Department of Computer Science, Aarhus University

We offer PostDoc positions in the area of Quantum Software Verification, Compilation and Optimization. Interested applicants with strong analytical skills and a desire to work on algorithmic and modeling challenges focused on Quantum Circuits are encouraged to contact us with a CV and a short description of interests. The applicants must have a strong background in Theoretical Computer Science (e.g., programming language theory, formal methods, or algorithms/optimization) and be open to practical computational experiments. PostDoc applicants must further demonstrate a solid history of academic writing and publishing, as well as carrying out independent research.

Who we are

The appointments will be held at the department of Computer Science, at Aarhus University, within the section of [Programming Languages, Logic, and Software Security](#), which has strong international presence and also ranks as a top-5 department worldwide in the area of Programming Languages (<https://csrankings.org>). See the [Quantum Software Team](#) for our recent contributions to quantum software. We collaborate with several external partners, such as the company [Kvantify](#).

Place of work

Department of Computer Science, Aarhus University, Åbøgade 34, 8200 Aarhus N

Expected start date and duration of employment

All positions are fully funded with a competitive salary and social benefits. The application deadline will be Feb 1st. The expected starting date of the positions is May 1st. This is a 2-year position. Applications should include a CV, a publication list, recommendation letter(s), and a motivation letter / research statement.

Contact information

For further information, please contact

Jaco van de Pol, jaco@cs.au.dk

Andreas Pavlogiannis, pavlogiannis@cs.au.dk

Bas Spitters, spitters@cs.au.dk

Application procedure

Shortlisting is used. This means that after the deadline for applications – and with the assistance from the assessment committee chairman, and the appointment committee if necessary, – the head of department selects the candidates to be evaluated. All applicants will be notified 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 each applicant is given the opportunity to comment on the part of the assessment that concerns him/her self. 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

Natural Sciences refers to the [Ministerial Order on the Appointment of Academic Staff at Danish Universities under the Danish Ministry of Science, Technology and Innovation](#).

Application Deadline:

01 February 2026

Institute/Faculty:

Department of
Computer Science

Faculty:

Faculty of Natural
Sciences

Academic contact person:

Jaco van de Pol
Professor
+4522387102
jaco@cs.au.dk

Vacant positions:

1

Number of months:

24

Hours per week:

37

Expected date of accession:

01/05/2026

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](#).

Aarhus University also offers a Junior Researcher Development Programme targeted at career development for postdocs at AU. You can read more about it [here](#).

At the Faculty of Natural Science at Aarhus University, we strive to support our scientific staff in their career development. We focus on competency development and career clarification and want to make your opportunities transparent. On [our website](#), you can find information on all types of scientific positions, as well as the entry criteria we use when assessing candidates. You can also read more about how we can assist you in your career planning and development.

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/