

Niels Bohr Quantum Summer School

Join a summer school program for Ph.D. students, where cutting-edge research meets real-world innovation.

The program welcomes both Danish and international Ph.D. students providing a unique international perspective.

Niels Bohr Quantum Summer School Inspiration to shape the Future

Niels Bohr Institute – Copenhagen – Denmark

11 – 22 August 2025

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A part of a national initiative

The Niels Bohr Quantum Summer School is a direct result of the Danish National Quantum Strategy that was published in 2023.

The strategy aims to enhance Denmark's global reputation as a hub for education and research.

In its first year, the summer school will be held in Copenhagen in the historic setting of the Niels Bohr Institute, but the summer school is a showcase of the whole Danish quantum ecosystem.

The initiative is a concrete outcome of the Danish Government's Quantum Strategy from 2023, one of whose objectives is to attract more quantum talent to Denmark building a robust, innovative quantum sector in Denmark.

The summer school is organized in a collaboration between the Danish universities, and the inaugural edition will be hosted by the University of Copenhagen at the Niels Bohr Institute.

The future installments will rotate to other universities in Denmark in the following sequence:

2026: University of Southern Denmark

2027: Technical University of Denmark

2028: Aalborg University

The summer school is organised by:

UNIVERSITY OF COPENHAGEN



**INNOVATION
CENTRE
DENMARK**



DeiC



**AALBORG
UNIVERSITY**



AARHUS UNIVERSITY



**University of
Southern Denmark**

Welcome

Join the Niels Bohr Quantum Summer School and be part of a journey of learning, discovery, and cultural immersion, where cutting-edge research meets real-world innovation.

The program welcomes both Danish and international Ph.D. students providing a unique international perspective.

At this summer school, you will learn from leading scientists and industry professionals at the forefront of quantum technologies.

The program opens the gateway for you to immerse yourself in academic excellence, while offering a vibrant cultural and social experience.

This is a unique opportunity to connect with like-minded peers and industry leaders, expanding your professional network across borders and professional paths.

Who can attend?

Students pursuing a Ph.D. in physics, mathematics, chemistry, computer science, or related fields, who already have some foundational knowledge of quantum mechanics and wish to deepen their understanding.

Note that a high proficiency in English is required.

How to apply?

Fill out the signup form at the application portal www.quantumsummer.dk and attach the following documents in a single PDF-file.

Use the file name format: HomeUniversity_FirstName_LastName.pdf:

- Letter of motivation (max one A4 page)
- CV
- Recommendation letter from your Ph.D. supervisor

Accomodation

Participants will be staying at Cabinn Copenhagen, Arni Magnussons Gade 1, 1577 Copenhagen. From here you can get to the Niels Bohr Institute either via metro, bus or in 'Copenhagen style' on bike.

Each hotel room is 12 m² and features a private bathroom, a small kitchen with a refrigerator, a microwave and an electric kettle.

The hotel also provides access to a shared kitchen, laundry facilities, and a fitness center.

The hotel serves continental breakfast which is included in your stay.

The hotel is located near the beach in Copenhagen V, a convenient area of Copenhagen with excellent shopping opportunities and popular attractions such as the Tivoli Gardens and Copenhagen Zoo.

Earliest check-in to the hotel is Sunday 10 August at 15:00 CET.

Learn more at cabinn.com/hotel/cabinn-copenhagen



Photo credit: VisitDenmark

Application process

The summer school evaluation committee will carefully review all applications. Selections will be based on merit, academic qualifications, and motivation. The process also aims to ensure a balanced and inclusive group, reflecting diversity in backgrounds, disciplines, and perspectives.

Important dates

- 03 March 2025:
Application portal closes at 23:59 CET
- 20 March 2025:
Letters of acceptance or rejection are sent
- 10 August 2025:
Arrival day
- 11 August 2025:
Summer school starts
- 22 August 2025:
Summer school ends

Practical information

If you are accepted as a participant we will charge a sign-up deposit of DKK 2000 (approximately \$ 279 or € 269) , which will be returned to you upon your completion of the summer school.

The summer school is funded by the Danish Ministry of Higher Education and Science as well as company sponsors.

This means that tuition, accommodation, planned social activities and most meals (except dinner) will be covered.

If your Ph.D. grant does not include funding for travel, you may apply for reimbursement of travel expenses up to DKK 5,000 including VAT, (approximately \$697 or €670)

Note that participants are responsible for visa applications (if applicable) and travel insurance. For visa requirements, visit nyidanmark.dk/en

Course

As a participant you will dive into a range of topics like:

- quantum information
- quantum computing theory
- quantum systems
- quantum & AI

The programme will also feature Quantum Laureates sessions, allowing you to engage in discussions across generations.

Additionally, you will participate in a Student Challenge. Divided into groups based on your chosen topic, you will tackle hands-on projects in areas such as experimental realization, theory & simulations, algorithms & applications, business, and education & outreach.

The summer school is accredited by the University of Copenhagen and awards 5 ECTS upon completion.

The Niels Bohr Quantum Summer School also includes a social program designed to foster connections among the participants and introduce them to the buzzing city of Copenhagen.

Faculty

The Niels Bohr Summer School features an exceptional team of dedicated faculty members, all with extensive experience and strong expertise in quantum research.

See more at <https://quantumsummer.dk>

Lectures

The lectures will run daily from 08:00 to 16:00 at the Niels Bohr Institute, located at Blegdamsvej 17, 2100 Copenhagen.

The teaching methods combine lectures, case-based learning, and hands-on lab work to provide a dynamic and immersive learning experience.

Course approval

The summer school is accredited by the University of Copenhagen and awards 5 ECTS upon completion.

Social programme

The Niels Bohr Quantum Summer School includes a social program designed to foster connections among the participants and introduce them to the buzzing city of Copenhagen.

Additionally you will receive a guide to explore the city and the local attractions independently during your free time.



Photo credit: VisitDenmark

Questions

If you have questions of any kind please reach out to the coordinator of the summer school.

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