Targeted job

DTU Global Talent Programme - Internship at DTU Electro

DTU Electro – Perception and Cognition for Autonomous Systems
Government/ Charity/ Public Institution/ Other
Engineering

Published on 25 February 2026

Contract
Internship 4 to 6 months

Location
Kongens Lyngby, Region Hovedstaden (Denmark)

Start date
August 2026

Salary
Information not provided

Remote working
No remote working

The Technical University of Denmark (DTU) is one of Europe's leading engineering universities, internationally recognized for excellence in research, education, innovation, and scientific advice. DTU develops and creates value using the natural sciences and technical sciences to benefit society. At DTU, we work closely with industry, public authorities, and international partners, offering a dynamic, interdisciplinary, and inclusive working environment.

This internship is offered under DTU's Global Talent Programme, which provides exclusive opportunities for the most exceptional students from DTU's partner universities worldwide. O bachelor-level students who have been nominated by their home university are e apply. As a participant at DTU, you will join an ambitious academic setting where

theory meets practice, and students are encouraged to take responsibility, contribute actively, and develop both professionally and personally.

Job Description

DTU Electro is part of DTU and focuses on electrical and photonics engineering, conducting research that spans nanophotonics, quantum photonics, optical sensors, lasers, acoustics, power electronics, robotics, and autonomous systems. Its mission is to develop technologies that advance sustainable energy systems, safer autonomous systems, greener and faster communication networks, and health-related photonic solutions.

The department works at the forefront of light- and electronics-based technologies, leveraging the combined potential of photons and electrons to address major societal challenges, including sustainability, communication, cyber-technology, health, and quantum-enabled applications. DTU Electro combines research, education, and strong collaboration with industry and public authorities, and is known for its ability to translate scientific advances into real-world technologies. The department is characterized by a collaborative culture, high academic standards, state-of-the-art facilities, and a strong focus on innovation and societal impact.

You will join the Perception and Cognition for Autonomous Systems (PCAS) group within the department. The team consists of researchers, postdocs, and PhD students working closely together on intelligent sensing, AI-driven decision support, safety engineering, and digital tools for real-world applications. As an intern, you will work closely with PhD students and professors who will support your learning and development, while also giving you the opportunity to contribute your own ideas and skills. You will support our DTU–KTH alliance PhD project titled *From Detection to Action: AI-supported Decision Systems for Disaster Preparedness.* This project focuses on building the link between early wildfire risk detection (KTH) and AI-supported emergency capacity planning (DTU). You will work closely with a DTU PhD student, a KTH PhD student, and an interdisciplinary research team from both universities.

Your tasks will include (but are not limited to):

- Assisting in data collection and processing from wildfire detection systems
- Supporting development of risk-scenario models (e.g., bow-tie models)
- Implementing or testing machine-learning models or decision-support components
- Preparing documentation, analyses, or visualizations for research tasks
- Participating in joint DTU–KTH team meetings

The exact tasks and responsibilities will be adjusted based on your background, interests, and the needs of the team.

Approval and qualifications
We are looking for two motivated and curious candidates who:

- Is currently enrolled in a relevant higher education programme at Bachelor's level at a DTU Global Talent Programme partner university. Contact your university if you are unsure.
- Has a background in Computer Science, Autonomous Systems, or Safety Engineering
- Has relevant academic or practical experience in programming, modelling, or data analysis
- Has an interest in AI, autonomous systems, risk analysis, or disaster management
- Is analytical, structured, and able to work independently
- Has good collaboration and communication skills
- Demonstrates proficiency in written and spoken English, documented by a recognized English language test. Minimum required scores are:

- Duolingo English Test (overall 120, speaking 120)
- TOEFL (overall 87, speaking 21)
- IELTS Academic (overall 6.5, speaking 6.5)

What we offer
DTU offers a prestigious internship at DTU Lyngby Campus in the Greater Copenhagen area. The internship provides hands-on research experience in a professional and international academic environment. Interns will work closely with leading researchers, contribute to high-level research projects, and apply their theoretical knowledge to advanced scientific challenges. The internship also offers a supportive and flexible environment designed to foster the development of highly capable and motivated students.

Living in Greater Copenhagen offers an enriching experience for international students. The city is renowned for its high quality of life, dynamic cultural scene, and focus on sustainability. Students will have the opportunity to engage with an international academic community, explore innovative research environments, and enjoy the vibrant lifestyle of Denmark's capital region.

As part of the internship, the student will also become a member of DTU's alumni community network, gaining access to a range of exclusive offers and support, including:

- Administrative and practical support – assistance with residence permits, housing, etc.

- Social and networking framework – social and cultural activities, networking across participating students
- Social activities – introduction week and events throughout the semester
- Networking opportunities – engagement across the cohort of students
- Parallel academic opportunities – coursework on the side and potential DTU supervision

Practical information:

- Internship period: 24 August 2026 – 18 December 2026 (one semester)
- Working hours: 37 hours per week (full-time)
- Location: DTU Lyngby Campus in the Greater Copenhagen area
- Compensation: the internship is unpaid

You can read more about the department here: DTU Electro
For useful information on student life in Denmark and at DTU, see Student guide - DTU.

Application procedure
In order to be considered for this programme, you must be nominated by your home university. Please submit your application including a short, motivated cover letter, and CV.

Your complete online application must be submitted no later than 15 April 2026 (23:59 Danish time).

To apply, please open the link "Apply now", fill out the online application form, and attach all your materials in English in PDF files. The files must include:

- A motivated cover letter (max 1 page).
- A CV including information about your education, research and project-related experience, language skills and other skills relevant for the position
- Grade transcripts (in English) including official description of grading scale
- Documentation proving a passed test for one of the above English language tests

We look forward to receiving your application.

Technology for people
DTU develops technology for people. With our international elite research and study programmes, we are helping to create a better world and to solve the global challenges formulated in the UN's 17 Sustainable Development Goals. Hans Christian Ørsted founded DTU in 1829 with a clear mission to develop and create value using science and engineering to

benefit society. That mission lives on today. DTU has 13,500 students and 6,000 employees. We work in an international atmosphere and have an inclusive, evolving, and informal working environment. DTU has campuses in all parts of Denmark and in Greenland, and we collaborate with the best universities around the world.

Application deadline

16 April 2026

Study level

Bachelor level or equivalent

Job Category

Engineering

Related tags

DTU Global Talent Programme