Postdoc Positions within the Embedded Systems Engineering Section at DTU Compute Technical University of Denmark

Job Title	Postdoc Positions within the Embedded Systems Engineering Section at DTU Compute
Department	DTU Compute https://www.compute.dtu.dk/
Institution	Technical University of Denmark Copenhagen, , Denmark
Date Posted	May 16, 2025
Application Deadline	Aug. 31, 2025
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Computer Engineering Computer Science
Apply Online Here	https://efzu.fa.em2.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_2001/jobs?lastSe
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Job Description

The Technical University of Denmark (DTU), Denmark's leading technical university, invites talented

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researchers to apply for two fully funded, two-year postdoctoral positions within the Embedded Systems Engineering (ESE) section at DTU Compute. At ESE, we build safe, secure, and reliable cyber-physical systems and lead DTU's contributions to Shift2SDV, a major Horizon Europe project focused on developing open middleware architectures for software-defined vehicles.

The successful candidates will join a dynamic, international research group actively collaborating with industry and academic partners across Europe. These positions offer excellent opportunities for career advancement, mentoring, and professional growth in an environment committed to innovation and cutting-edge research.

The available positions are:

1. **Secure Task Offloading for Software-Defined Vehicles (SDV)**: You will research and develop secure solutions for offloading critical computational tasks from vehicles to edge and cloud infrastructures. Your work includes threat modeling, designing secure task-offloading mechanisms, developing trust and security policies, and prototyping runtime monitors within the Shift2SDV middleware framework. Apply here: SDV Postdoc Application

2. **Runtime Analysis and Configuration of Time-Sensitive Networking (TSN)**: Your research will focus on developing runtime analysis tools and configuration methods to dynamically adapt TSN schedules, ensuring robust real-time performance for automotive systems. Activities will include applying network-calculus methods, developing reconfiguration algorithms (search-based or learning-based), and integrating these solutions into the Shift2SDV project. Apply here: TSN Postdoc Application

DTU's campus is located near Copenhagen, a vibrant, bike-friendly city known for its excellent public transport, international atmosphere, and high quality of life. The working language at DTU is English, facilitating easy integration into our diverse community.

ESE is also expanding its academic team and will soon advertise additional faculty positions. Interested candidates can explore our plans and learn more here: ESE Faculty Hiring. Visit this page to learn more about DTU Compute, ESE and our expansion plans.

Application deadline: 31 August 2025

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

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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.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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