Professor, Computer Engineering
Aalto University

Job Title	Professor, Computer Engineering
Department	T412 Department of Information and Communications Engineering
Institution	Aalto University , , Finland
Date Posted	Oct. 31, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professor
Academic Field(s)	Computer Engineering
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Professor--Computer-Engineering_R41234

Apply By Email

Job Description

Aalto University is where science and art meet technology and business. We shape a sustainable future by making research breakthroughs in and across our disciplines, sparking the game changers of tomorrow and creating novel solutions to major global challenges. Our community is made up of 13 000 students, 400 professors and close to 4 500 other faculty and staff working on our dynamic campus in Espoo, Greater Helsinki, Finland. Diversity is part of who we are, and we actively work to ensure our community's diversity and inclusiveness. This is why we warmly encourage qualified candidates from all backgrounds to join our community.

The School of Electrical Engineering promotes high-quality science, technology and innovations for the benefit of the Finnish society and all of humankind. In our research environment, the natural sciences, engineering and information technology intertwine to form smart systems and innovations that save

energy and promote well-being. With our research, we seek to respond to many challenges posed by sustainable development and the results are applied, for example, in mobile devices, electrical networks, health care and in satellites. School's special strength is linking the research with the Finnish and international business sector. We have around 2000 students in total, and around 250 master's and 50 doctoral degrees annually. Our personnel consist of 700 people with over 70 professors.

Aalto University School of Electrical Engineering invites applications for an

ASSISTANT OR ASSOCIATE PROFESSOR IN COMPUTER ENGINEERING (tenure track)

Are you passionate about research and innovation in hardware-accelerated computing?

We are seeking applications for an Assistant or Associate Professor in Computer Engineering. We are looking for candidates to strengthen our research and education in this area. The ideal candidate will have expertise in fields, such as but not limited to, hardware-accelerated computing, heterogeneous architectures, compiler technologies and code generation, or the co-design of software and hardware systems.

In this role, you will advance the integration of hardware and software by developing innovative hardware accelerator technologies to optimize computational performance, energy efficiency, or both.

As a professor in the Department of Information and Communications Engineering (DICE), you will have the opportunity to establish and lead your own research group, supported by a generous starting grant. You will also contribute to teaching in the new English-taught Computer Engineering B.Sc. majorl and the Computer, Communication, and Information Sciences (CCIS) Master's program. The successful candidate should be prepared to teach courses in key areas such as computer architecture, compilers, and other topics related to hardware and low-level programming. An excellent command of English is required for teaching.

This position is part of Aalto University's tenure track system and will be filled either the assistant or associate professor level. The contract can be fixed term or permanent, depending on the professor's level. Progression and tenure on the Aalto tenure track is based on an evaluation of your achievements and merits against the Aalto tenure track criteria. Please see the details about the evaluation criteria at https://www.aalto.fi/services/tenure-track-evaluation-criteria, and work profile at https://www.aalto.fi/en/tenure-track/tenure-track-career-path.

Environment
In Finland, the ICT ecosystem has made strong contributions to national and international

telecommunications industries, a sector in which the country has achieved notable success. This ecosystem is characterized by world-class software engineering, along with advanced capabilities in designing RF, analog, and digital functions, and integrating these into complex mixed-mode Systems-on-Chips (SoCs). Such expertise has been a cornerstone of the Finnish telecommunications industry's achievements and has placed Finland at the forefront of this field. To continue this trajectory of innovation and maintain our leading position, there is a growing need for cutting-edge computer engineering expertise. Aalto University is known for its strong collaboration with companies through research projects, and our graduates find key roles in the industry.

The Department of Information and Communications Engineering (DICE) comprises 20 professors and is organized into research clusters focused on Human-Centric Technology, Communication and Networked Systems, and the Fundamentals of Information and Communications Engineering. At DICE, you will have numerous opportunities to connect computer engineering with areas such as signal processing, machine learning, communications engineering, and networking technologies. The department is located on Aalto University's Otaniemi campus in Espoo, part of the Helsinki metropolitan area, which is the largest ICT industry hub in Finland, fostering strong interactions and collaborations with industrial partners.

The School of Electrical Engineering has excellent laboratory facilities including the Aalto [url=https://www.aalto.fi/en/services/aalto-electronics-ict]Electronics-ICT laboratory and the [url=https://www.aalto.fi/fi/aalto-nextg]Aalto Next G campus network, enabling you to conduct hands-on experimental research.

We seek applicants with: * A doctoral degree in computer engineering, electrical engineering, computer science, or a related field * Teaching experience relevant to the appointment level * A strong publication record * Ability to apply for and secure external funding * Strong interpersonal skills and a commitment to teamwork

Applicants with both industrial experience and a scientific career are highly encouraged to apply. Candidates will be evaluated based on the potential of their research, teaching, and contributions to the scientific community. We warmly welcome applicants from diverse backgrounds to join our academic community.

We offer * Research-oriented Environment: We have excellent research infrastructure and high-quality laboratories enabling experimental research * Well-resourced Learning Community: Opportunity to work within a well-resourced learning community, characterized by rigorously selected and highly motivated students. * Tenure Track Position: A tenure track position with promotion to a tenured position based on merits, offering a clear and rewarding career pathway. * Comprehensive Benefits

Package: Includes access to health care, ensuring a supportive work-life balance. * Friendly and Diverse Community, which genuinely respects diversity and equality. * Excellent Collaboration Possibilities: Opportunities for excellent collaborations within the university fostering a rich academic network.

Ready to apply?

Please submit your application at the latest on 29.12.2024 through our recruiting system by using the "Apply" link. Aalto University's employees and visitors please note you may apply for the position via our internal system with your Workday account: Workday -> Career -> find jobs

Please include the following mandatory pdf documents in English * Application letter * Curriculum Vitae incl. ResearcherID and names and contact information for references. Kindly use the TENK [url=https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae]template. * List of publications with 5 most relevant publications regarding this position highlighted * Research portfolio describing past research and plans for future research (max 5 pages) * Teaching portfolio [url=https://www.aalto.fi/sites/g/files/flghsv161/files/2024-04/Teaching-competence-assessment_Guidelines-for-a-candidate_2024_Aalto-University.pdf](guideline for candidates)

General instructions for applicants including language requirements and guidelines for compiling the teaching portfolio, research portfolio, and CV can be found here: [url=https://www.aalto.fi/en/tenure-track/interested-in-joining-our-tenure-track]interested in joining our tenure track. For short-listed candidates, Aalto University keeps the right to ask a new teaching portfolio for the evaluation.

Aalto University reserves the right for justified reasons to leave the position open or to extend the application period.

Further information

For additional information about the position, please contact Professor Riku Jäntti at [url=mailto:riku.jantti@aalto.fi]riku.jantti@aalto.fi.For questions related to the recruitment process, HR Partner Hanna Koli at [url=mailto:hanna.koli@aalto.fi]hanna.koli@aalto.fi.

Tenure track in Aalto University

The position is a tenure track position. Individuals appointed to the tenure track have the opportunity to conduct research and/or artistic work and teach in order to build academic merits towards qualifying for an appointment to a tenured position.

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Since 2010, the tenure track has attracted a wide range of international applicants, giving Aalto University the possibility of recruiting top experts and young talent to join the Aalto University community.

Throughout their careers, those in the tenure track system are expected to conduct and supervise artistic/scientific research and/or artistic/design work, to provide related academic education, contribute to developing their field or discipline, as well as contribute to academic service the university and beyond in the society. For more information on the tenure track system of Aalto University, please see [url=https://www.aalto.fi/en/tenure-track]https://www.aalto.fi/en/tenure-track.

Aalto University has been awarded with HR Excellence in Research quality label in European Commission, guaranteeing that we adhere to top quality HR practices in both recruitment and employment relations.

About Finland

Finland is a great place for living with or without family - it is a safe, politically stable and well-organized Nordic society. Finland is consistently ranked high in quality of life and was just listed again as the happiest country in the world:

[url=https://worldhappiness.report/news/happiest-countries-prove-resilient-despite-overlapping-crises/]https://worldhappiness.report/news/happiest-countries-prove-resilient-despite-overlapping-crises/

For more information about living in Finland:
[url=https://www.aalto.fi/en/careers-at-aalto/living-in-finland]https://www.aalto.fi/en/careers-at-aalto/living-in-finland
[url=https://www.aalto.fi/en/careers-at-aalto/welcome-to-aalto-university-and-finland]https://www.aalto.fi/en/careers-at-aalto/welcome-to-aalto-university-and-finland

Contact Information

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

Contact

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