Assistant or Associate Professor, Sustainable Microelectronics Design
Aalto University

Job Title	Assistant or Associate Professor, Sustainable Microelectronics Design
Department	T411 Dept. Electronics and Nanoeng
Institution	Aalto University , , Finland
Date Posted	Sep. 29, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Associate Professor Assistant Professor
Academic Field(s)	Electrical and/or Electronics
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Assistant-or-Associate-Professor--Sustainable-Microelectronics-Design_R43916
Apply By Email	

Job Description

The Department of Electronics and Nanoengineering at Aalto University School of Electrical Engineering invites applications for a tenure-track professor position in sustainable microelectronics design. The position can be filled at assistant or associate professor level.

We are looking for highly qualified academic specialists in the broad area of integrated circuit design. Possible focus areas can include, but are not limited to, machine learning (ML), Artificial Intelligence (AI), neuromorphic computing, and digital signal processing hardware accelerators; signal processing hardware system; microprocessors; novel computer architecture implementations; Compute-in-Memory circuits; and digital system-on-chips implementations. Applicants are expected to demonstrate consideration of sustainability in microelectronics design in a broad sense. This may encompass, for

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example, energy and power efficiency, design methodologies that support long-term scalability, or other innovative approaches that, for example, contribute to sustainable evolution ubiquitous computing platforms.

As a faculty member, you will complement our department's existing expertise in integrated circuit design, which currently emphasises microwave engineering, mixed-mode circuits, and sensor interface electronics, by introducing fresh and bold new research ideas and perspectives. This position provides you with an excellent opportunity to conduct state-of-the-art, hands-on IC research with modern technologies and excellent infrastructure, including facilities to enable IC measurements from DC to THz.

Your experience and ambitions
We seek applicants with: *
a doctoral degree in electrical engineering or a related field *
potential to carry out high-quality research and raise research funding to build up your own research group *
passion to collaborate with industry *
ability to build a high-level international contact network *
motivation to teach and develop teaching at the undergraduate and/or graduate level *
fluent command of both written and spoken English *
familiarity with modern semiconductor technologies and their applications will be considered an advantage

Scientific environment
You will join the [url=https://www.aalto.fi/en/department-of-electronics-and-nanoengineering]Department of Electronics and Nanoengineering at Aalto University [url=https://www.aalto.fi/en/school-of-electrical-engineering]School of Electrical Engineering. The department’s research areas include integrated circuit design, microwave engineering, electromagnetics, space science and technology as well as photonics and nanotechnology. Our researchers in IC design work with sensor interface electronics, energy harvesters, RF/MM/analogue/DSP ICs for wireless, radars, antennas, and related electronics. In these fields, our researchers work in close collaboration with several national and international leading research institutes and companies.

The department has excellent measurement facilities with a wide variety of measurement equipment. The equipment ranges from DSP and DC analysers to THz network analysers and anechoic chambers. The department also has cutting-edge design tools, comprehensively including IC technology design kits, EM simulators and DSP design tools.

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What we offer
The position belongs to our [url=https://www.aalto.fi/en/tenure-track]tenure track system and can be filled at assistant or associate professor level, depending on the selected candidate’s background. The salary is based on the Aalto University salary system, but you can also provide your own salary request. The university provides research start-up funding, and we actively assist researchers in applying for other research funds. The contract includes occupational health benefits, and Finland has a comprehensive social security system. Advancement on the Aalto tenure track is based on an evaluation of achievements and merits according to Aalto's tenure track criteria. Please see the details about the evaluation at [url=https://www.aalto.fi/en/services/tenure-track-evaluation-criteria]Aalto tenure track evaluation criteria.

Ready to apply?
Submit your application through our recruiting system by using the 'Apply now!' button below.

Please include the following mandatory PDF documents in English:
1) cover letter
2) curriculum vitae (with your contact information and ResearcherID number) including a list of personal references
3) list of publications (with the five most significant publications highlighted and your role in them described)
4) a research statement describing past research and plans for future research
5) a teaching portfolio describing teaching experience and plans for teaching (See Aalto’s portfolio instructions in these guidelines: [url=https://www.aalto.fi/sites/default/files/2024-04/Teaching-competence-assessment_Guidelines-for-a-candidate_2024_Aalto-University.pdf]Aalto Teaching Portfolio)

The application period closes on November 9, 2025.

Aalto University’s employees and academic visitors should apply for the position via the internal system (Workday > Career > Find jobs) by using their existing Workday user account (not via the external webpage for open positions).
General instructions for applicants, including evaluation criteria, language requirements and guidelines for compiling your CV, are given at [url=https://www.aalto.fi/en/tenure-track/interested-in-joining-our-tenure-track]Interested in joining our tenure track? | Aalto University.

More information
If you wish to hear more about the position or about us, please contact Professor Ville Viikari

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(ville.viikari@aalto.fi, +358 50 413 5458) or Professor Kari Halonen (kari.halonen@aalto.fi, +358 50 511 3965). If you have questions related to the recruitment process, please contact HR Partner Camilla Hanganpää (camilla.hanganpaa@aalto.fi).

Aalto University reserves the right to leave the position open, to discontinue the recruitment process, or to extend the application period.

About Aalto University
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 120 nationalities, 14 000 students, 400 professors and 5000 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.

Living in Finland
As a living and work environment, Finland consistently ranks high in quality-of-life and has been listed as [url=https://www.worldhappiness.report/]the happiest country in the world for eight years in a row. Helsinki is consistently ranked as one of the most livable cities in the world. For more information about living in Finland, please visit our [url=https://www.aalto.fi/en/careers-at-aalto/living-in-finland]information pages for international staff.

Contact Information

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

Contact

Finland