



**Assistant or Associate
Professor in Computer
Engineering (tenure track)**

**Department of Information
and Communications
Engineering**



Aalto University



Aalto University

Aalto University is a multidisciplinary community of bold thinkers where science and art meet technology and business.

Aalto University is a university where research, art and education are promoted hand in hand. We are committed to **identifying and solving grand societal challenges** and building an innovative future.

With high-quality research we aim at creating significant impact on the international scientific community, industry and business, as well as the society at large. Disciplinary excellence is combined with **multidisciplinary** activities, engaging both students and the local innovation ecosystem.

Aalto has over 13 000 students and **six schools** with more than 400 professors. We are an international community: more than 45% of our academic personnel have an international background.

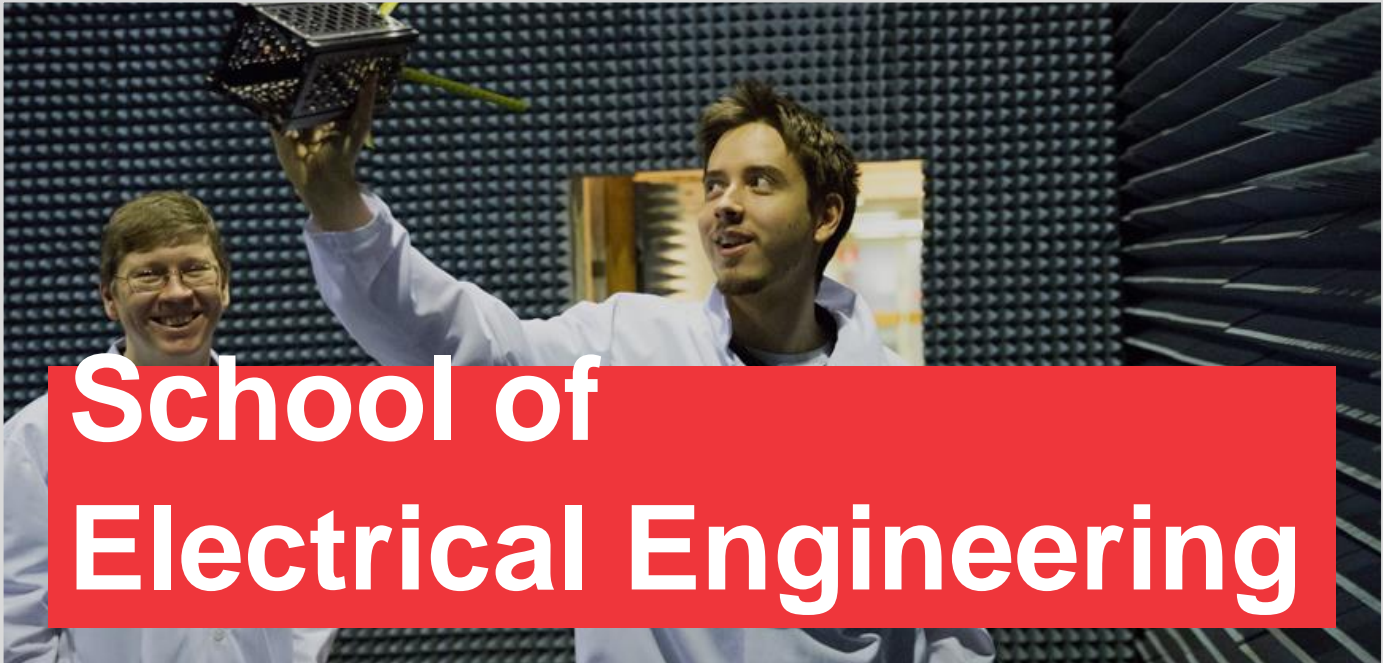
Aalto University was **founded in 2010** as three leading Finnish universities, Helsinki University of Technology, the Helsinki School of Economics and the University of Art and Design Helsinki, were merged. Our campuses are located in Espoo and Helsinki, Finland.

The University campus in Espoo is developing into a unique, open innovation hub and a center of collaboration that attracts partners from all around the world. It encourages sharing of ideas, inter-disciplinary encounters, creativity, growth and entrepreneurship. The core of the campus will be a vibrant city with versatile services and attractive places to meet.



Aalto University

More info at
aalto.fi

A photograph of two men in a laboratory setting. The man on the right is holding a small, dark, cube-shaped electronic device with wires attached, and he is looking at it with interest. The man on the left is smiling and looking towards the camera. They are both wearing light blue lab coats. The background is a dark, textured wall, possibly an anechoic chamber.

School of Electrical Engineering

At the School of Electrical Engineering, science and engineering meet society.

Our portfolio covers fields from natural sciences to engineering and information sciences. In parallel with basic research, we develop ideas and technologies further into innovations and services. We are **experts in systems science**: we develop integrated solutions from care of the elderly to space robotics.

Our school has about **2000 students**, approximately 50 doctor's and about 250 master's degrees are completed annually. There are **600 members of academic staff** at the School, of which 60 are professors.

The School's **three departments** cover the fields of electronics, communications and automation. Special fields include automation and systems technology, electronics and information technology, power engineering, communications engineering and bioinformation technology.

The novel research results and systems solutions require committed researchers, hard-working students, modern research infrastructure, and an excellent support organization. Our international and close-knit community is one of our strengths.

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Aalto University
School of Electrical
Engineering

More info at
elec.aalto.fi



Department of Information and Communications Engineering

The department of Information and Communications Engineering has strong competence in ICT. Our research and teaching span from ICT technology to core electrical engineering and its basic phenomena. Department carries out research in the following areas: Human-centric Technology, Communications and Networked System and Fundamentals of Information and Communications Engineering

Human-centric Technology

This research area concentrates on technology aiming to augment human capabilities and assist them in everyday activities. We address this goal by studying, e.g., methods for computational design, speech interaction, audiovisual headsets, spatial sound, and wearable computing. Our research teams study human perception to create better algorithms to model and simulate human behavior. Our research is seeking sustainable solutions for global grand challenges.

Communications and Networked Systems

The research area focuses on communications and networked systems. Our work covers all aspects of such systems, including internet-scale systems, network and medium access protocols, techno-economic feasibility studies, energy efficiency and robustness, software defined radios and networking, and the theory of ultra-large-scale communications systems. The unifying theme in the research area is taking a broad perspective on communications architectures and systems. The research area takes particular pride in that we also deploy and develop hardware and software implementations.


Fundamentals of Information and Communications Engineering

We focus on fundamental methods in adaptive systems, communication theory, detection and estimation theory, measurement science and technology, networks theory, and signal processing supported by the fields of data science, discrete mathematics, information theory, machine learning and optimisation theory.

Studies

The Department of Information and Communications Engineering provides education on Bachelor, Master and Doctoral levels. Our master's education is focused on the four majors of the Computer, Communication and Information Sciences programme. All our master's degree programmes are international and taught in English.

More info at
[Department of Information and Communications Engineering](#)



Assistant or Associate Professor in Computer Engineering (Tenure track)

Department of Information and Communications Engineering

Are you passionate to research and innovate hardware-accelerated computing?

We are seeking applications for an Assistant or Associate Professor in Computer Engineering to strengthen Aalto University's research and education in this field. The ideal candidate will have expertise in areas such as 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. major, as well as 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.

At the Department of Information and Communications Engineering (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, facilitating strong interactions and collaborations with industrial partners. The School of Electrical Engineering has excellent laboratory facilities including the [Aalto Electronics-ICT](#) laboratory and the [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

For more information regarding the position, please contact Prof. Riku Jäntti, riku.jantti@aalto.fi.

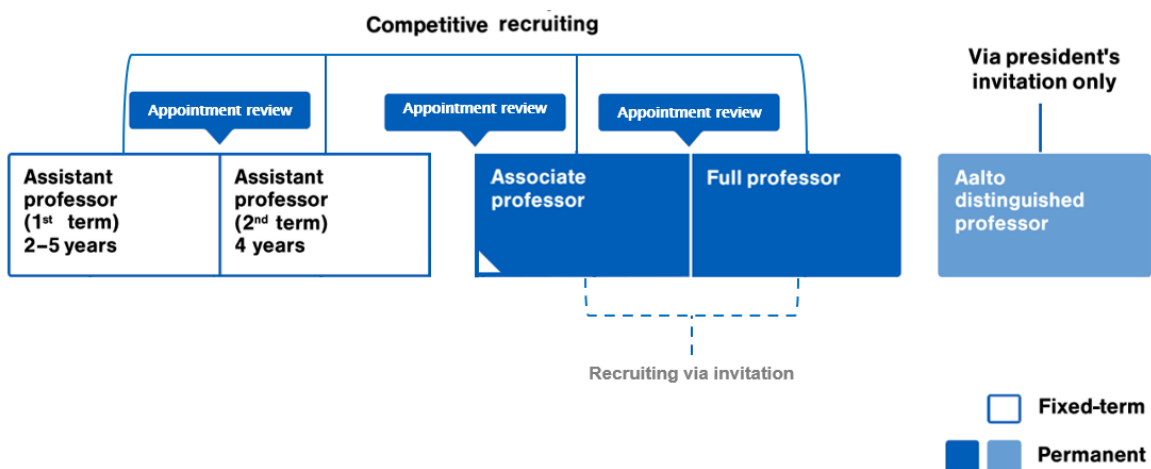
More info at
position.aalto.fi



Tenure Track Career

Aalto University's tenure track career system offers a well-supported and clear career path.

- **Clear and transparent** criteria and processes for recruitment, evaluation, and promotion.
- **Compensation of success** – Adequate salary and compensation to motivate towards Aalto's vision and objectives.
- **Equal opportunity to succeed** – Motivation and cooperation increase as people in tenure track compete only with themselves, not against one another.



More info at
aalto.fi/tenuretrack



Tenure Track

General time allocation for tenure track professors

	Assistant Professor (1)	Assistant Professor (2)	Associate Professor	Full Professor	Aalto Distinguished Professor
<input type="checkbox"/> Fixed term					
<input checked="" type="checkbox"/> Permanent					
Research/ artistic/ professional work	65% +/-10%	60% +/-10%	50% +/-10%	40% +/-15%	Negotiable
Teaching	30% +/-10%	30% +/-10%	30% +/-10%	30% +/-15%	30% +/-15%
Service	5% +5%	10% +/-5%	20% +/-10%	30% +/-15%	Negotiable

Key principles

- Research emphasis high in the beginning to obtain research portfolio.
- Teaching relatively constant to maintain required teaching scale and senior professors in touch with students.
- Contribution for academic leadership and collaboration in research and artistic community increase with seniority through increased leadership, committee membership and societal interaction.
- Mandatory teaching for Distinguished Professors, otherwise work profile negotiated.

More info at
aalto.fi/tenuretrack



Working at Aalto University

Why join us?

Established in 2010 as a merger of three leading Finnish Universities, we are both **challenger of the old, and traditional with strong history** and legacy.

Our unique combination of fields in **art and design, technology and business** **enable multi-disciplinarity** and finding clever solutions for the world's most wicked problems in the interfaces of these fields.

We aim for **societal impact**, educating game changers to drive sustainability.

We enjoy working at our evolving **collaborative campus close to the heart of Helsinki**, with good connections, great architecture and amazing nature.

We are **international and diverse**: more than 40 % of our faculty comes from outside of Finland. Our working environment is multi-cultural, widely English-speaking and its easy to settle in, despite of wherever you come from.

We have strong [academic standing and reputation in our key fields](#) – Aalto University is among top 10 of New Universities in the world (QS ranking).

Our **well-functioning and fair Tenure Track career system** enables building a successful academic career, providing support for fulfilling your professional ambitions.

Culture that inspires and includes everyone. It's the people that create Aalto, now and in the future. We want to be an open community where equality and inclusion enable curiosity, innovation, collaboration and wellbeing. We constantly keep learning to find the most impactful ways to empower – and invest in – our people.

A wide-angle photograph of the Aalto University Otaniemi campus interior. The space is a large, modern atrium with a high ceiling featuring a complex network of white structural beams and large glass skylights. On the left, a wide staircase with a glass railing leads to an upper level. In the center and right, there are glass-walled rooms and open-plan workspaces. Two young people, a woman wearing a green jacket and a colorful beanie, and a man in a patterned shirt and a pink cardigan, are standing in the foreground, looking towards the right. A large red banner with white text is overlaid across the middle of the image.

What do we offer?

Meaningful and inspiring environment

We are proud of our purpose to shape a sustainable future. We spark the game changers of tomorrow, and renew society with research-based knowledge, creativity and an entrepreneurial mindset.

Culture that inspires and includes everyone

All our work is guided by the values of the university: responsibility, courage, and collaboration. It's the people that create Aalto, now and in the future. We want to be an open community where equality and inclusion enable curiosity, innovation, collaboration and wellbeing.

Collaboration reimaged

At Aalto University, a unique combination of science, art, tech, and business brings talent together. We have over 12 000 students and 4 000 employees joining forces to shape a sustainable future. Together with the surrounding companies, startups and technology parks at the Otaniemi campus, we are committed to driving ground-breaking research, educating the game changers of tomorrow, and renewing society.

Vibrant campus at a central location

The vibrant Otaniemi campus, only 10 km away from Helsinki city centre, is the home of a bold and curious community, where science and art meet technology, business and innovation. Finland is famous for being the Happiest Country in the World, and having the world's best education system, world class academic freedom*, cleanest air, high trust, and a low hierarchy – themes also important to Aalto.



Aalto University



Living in Finland

Finland is [among the best countries in the world](#) according to many quality of life indicators, including being the [happiest country in the world \(UN study 2023\)](#).

We are humble people, but dare to say we have **one of the most advanced education systems in the world**.

The Nordic values of **equality and co-operation** are rooted deeply into our society. We are one of the world's top countries in press freedom and consider the many voices in our society a strength.

With high investments in R&D, a strong innovation culture, open data and advanced state of digitalization, we are a nation of **innovation and entrepreneurship**.

Gender equality, flexibility and low hierarchy are at the core of our **Nordic working environment**. Professional ambitions can be combined with a fulfilling personal life.

We are one of the world's most **reliable and stable** nations with low levels of corruption and high level of safety. We are proud to provide exceptionally high standards of social security and healthcare, financed by the state.

Having four distinct seasons, clean air and thousands of lakes, we are some nature-loving people and take good care of our **unique environment**. We enjoy our midnight sun in the summer and northern lights in the winter.

Finnish language is known to be a bit on the complicated side, but don't worry, we Finns are fluent in English, and have an **international mindset**.

We have **wide and reliable transport networks**, with Helsinki airport serving over 100 direct destinations. The comprehensive public transport makes it easy to commute. Our campus is situated within a 10 minute metro ride from the heart of Helsinki.

Want to live in the best country in the world?

More about [Helsinki](#)

More about [Espoo](#)

More about [Finland](#)

More about [working at Aalto](#)



Recruitment process

November - December

Application period

External evaluations

January-February

February-March

Site visit

Decision

April – May

May – June

Welcoming new Professor!

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**Aalto University –
a community of
game changers**
aalto.fi



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