



Assistant Professor in Space Technology

**Department of Electronics and
Nanoengineering**



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.



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More info at
aalto.fi

A photograph of two men in white lab coats in a laboratory setting. The man on the right is holding up a small, cube-shaped satellite with yellow antennas. The background features blue acoustic foam panels.

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.



Aalto University
School of Electrical
Engineering

More info at
elec.aalto.fi



Department of Electronics and Nanoengineering

Research and teaching

The Department of Electronics and Nanoengineering conducts research and arranges related courses in the fields of electromagnetics, micro and nanotechnology, radio engineering, and space technology.

The department excels in the research of microelectronic circuit design, microwave engineering and components for optics and electronics. The research in the department covers the frequency spectrum from DC to THz, and the target applications range from sensors and telecommunications to space instruments.

Research Groups in Microelectronics and in Microwave engineering

The department's research groups are dedicated to top leading edge research in microelectronics. The research fields include sensor interface electronics, energy harvesters, RF/MM/analog/DSP ICs for wireless, radars, antennas and related electronics.

The department research groups have active national and international collaboration with several institutes and companies.

Facilities

The department has various state-of-art measurement facilities: [Research infrastructure of the School of Electrical Engineering | Aalto University](#)

The department hosts a well-equipped Small Satellite Laboratory, complete with a dedicated cleanroom, thermal vacuum chamber, environmental test facilities, and excellent laboratories for RF technologies, anechoic chamber testing, and advanced computational resources

Personnel

The Department employs 19 professors, 15 senior research and teaching staff members and nearly 80 doctoral students.

More info at
ele.aalto.fi



Open position

Assistant Professor in Space Technology

Aalto University is the cradle of Finnish New Space and the hub of space technology innovation. The university has already developed and launched five satellites, and our spin-off companies are shaping the New Space economy worldwide. Aalto operates ESA Business Incubator Center, ESA Phi-Lab and works in close collaboration with rapidly growing industry.

Who are we looking for?

We wish to recruit an ambitious scientist and innovator to strengthen and expand our Space Technology focus and to support the continued growth of the Aalto Space Technology ecosystem. We seek someone ready to bring disruptive ideas and lead research and teaching in areas supporting our strong portfolio of small satellite missions, scientific instrumentation, microwave Earth Observation instruments, in-orbit reliability, radiation tolerance, LEO and VLEO missions, electronics and IC development and RF technologies.

Expected Competences and Qualifications

- A doctoral degree in space technology, aerospace engineering, electrical engineering, physics, or a closely related field.
- Strong research experience in one or more relevant areas of space technology mentioned above.
- A well-established publication record, demonstrating international scientific impact.
- Potential to lead an independent research group, evidenced by early-career achievements, research vision, or emerging leadership experience.
- Ability to teach in relevant areas of space technology and to supervise MSc and doctoral students.
- Excellent command of English, as it is the working language at Aalto University.

More info at
position.aalto.fi



Scientific environment & applying

Scientific environment

Aalto University is a central hub of the Finnish space ecosystem. Most Finnish satellites have been developed on the Otaniemi campus area. Aalto University Space ecosystem has produced significant space-related spin-off companies with worldwide impact. Aalto is deeply embedded in the European space innovation network through the ESA Phi-Lab and the ESA Business Incubation Centre (ESA BIC) Finland.

The department hosts a well-equipped **Small Satellite Laboratory**, complete with a dedicated cleanroom, thermal vacuum chamber, environmental test facilities, and excellent laboratories for RF technologies, anechoic chamber testing, and advanced computational resources. Aalto is also an active partner in national **Centre of Excellence in Space Resilience**. Aalto has made or participated small satellite missions such as Aalto-1, Aalto-2, FORESAIL-1, FORESAIL-1 Prime, Suomi-100 and participates in international ESA missions such as JUICE, Bepi Colombo, Comet Interceptor, HERA and many others. Aalto space team also works on microwave remote sensing, small satellite platforms, microwave EO radars, SAR interferometry and polarimetry, planetary plasmas, space weather, solar wind interactions, space environment modelling and simulations and radio astronomy.

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.

How to apply?

To apply, we kindly ask you to submit your application materials through our recruitment system on **31.3.2026 at 23:59 at the latest** (Eastern European time UTC +2).

The following application materials should be submitted in English and in pdf format (please note that the maximum size per document is 5MB):

- Application letter
- Curriculum Vitae incl. ResearcherID or ORCID and names and contact information for references. Kindly use [the TENK 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 ([guideline for candidates](#))

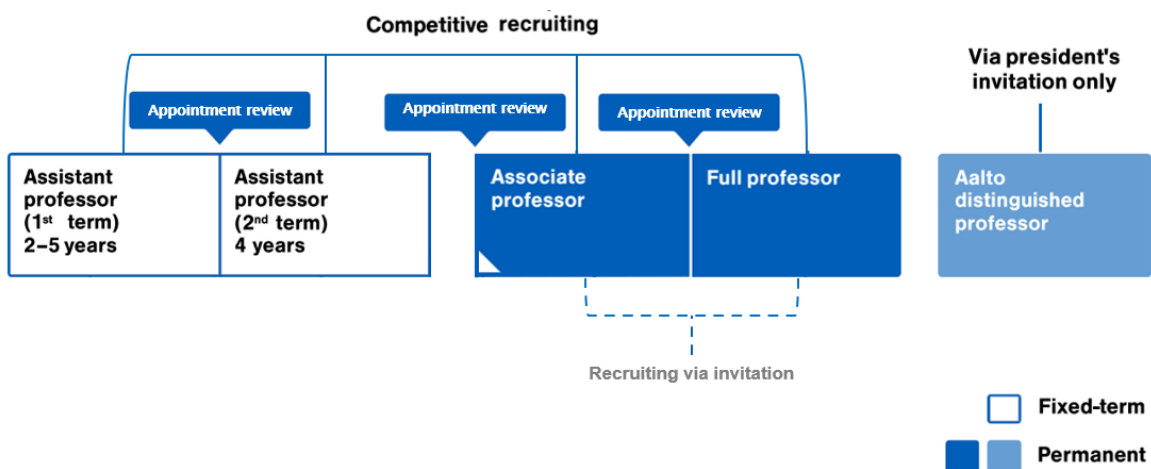
General instructions for applicants including evaluation criteria, language requirements and guidelines for compiling your documents are given at [Interested in joining our tenure track? | Aalto University](#).

[**Apply here!**](#)

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 Career

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 panels. Natural light streams in from the skylights. In the foreground, a young woman with glasses and a colorful beanie, wearing a green jacket, and a young man with blonde hair wearing a patterned shirt and a maroon cardigan are smiling and looking at each other. In the background, there are multiple levels of the building with glass railings, and various plants and study tables are visible.

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](#)

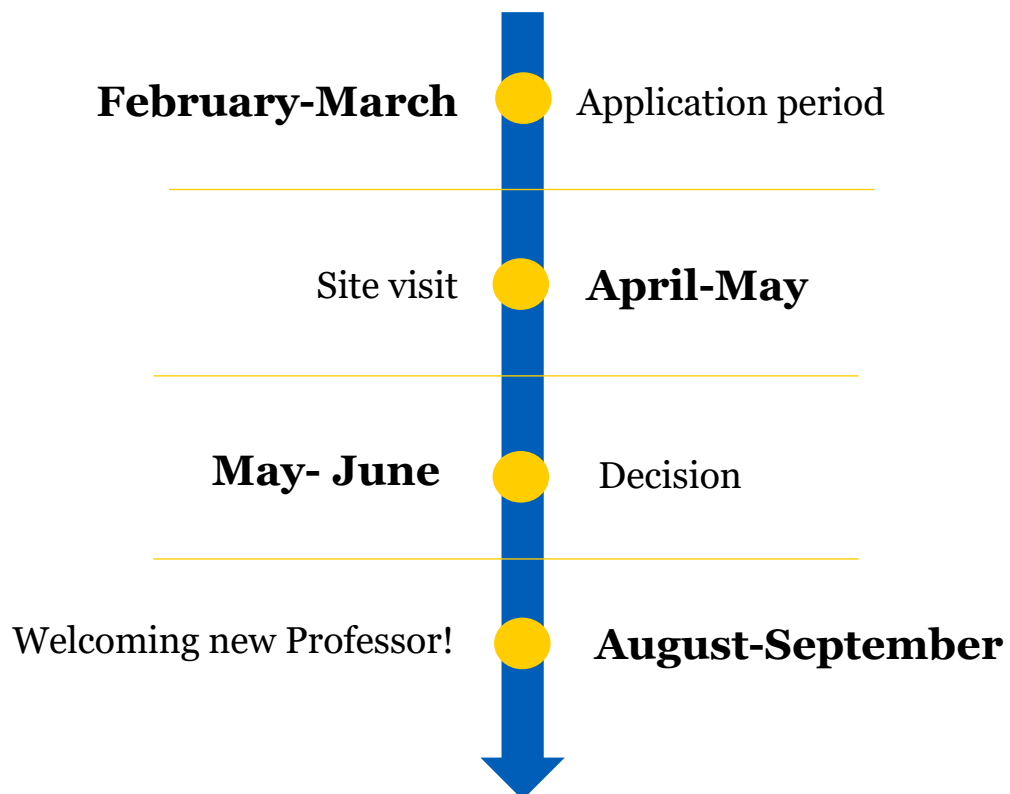
More about [Espoo](#)

More about [Finland](#)

More about [working at Aalto](#)



Recruitment process





**We want *you* to be part of our
community – join us in shaping
the sustainable future!**

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**Aalto University –
a community of
game changers**
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