



# Aalto University IT Services





# Aalto University

## 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 **six schools** with 12 000 students and more than 400 professors. We are an international community: 40% of our academic faculty 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.

We have a **vibrant campus** in Espoo, in the Greater Helsinki region. The campus is developing into a unique, open **innovation hub** and a centre of collaboration that attracts partners from all around the world. It encourages sharing of ideas, inter-disciplinary encounters, creativity, growth and entrepreneurship.

Watch videos! [Here](#) you can find what Aalto is all about.

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Aalto University

**“Liberal, multicultural and never dull”, says an Aalto IT expert. Read more about what it is like to work in Aalto IT services and watch a video here:**  
<https://duunitori.fi/tyoelama/aalto-universitys-it-experts-in-spotlight>

More info at  
[aalto.fi](https://aalto.fi)



# Working at Aalto

## Why is a career at Aalto University an excellent choice?

### Collaboration reimagined

At Aalto University, a unique combination of science, art, tech, and business brings talent together to shape a sustainable future. Collaboration that breaks boundaries is where big, unlikely ideas, come to life. We have nearly 12 000 students and 4 000 employees, but the whole innovation ecosystem at the Otaniemi campus is much bigger.

### Joint direction

Sparkling people to find their own paths and make an impact is ingrained in our culture. Some of us call it research, knowledge or critical thinking. Some might call it innovation, radical creativity or entrepreneurial mindset. We help each other thrive, focusing on the community and people, teaching and learning from one another, infrastructures and campus, and services. Everyone has their passion, but it's all our diverse viewpoints that can together make an impact.

### 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.

We actively support **the career and competence development** of our staff by creating opportunities for career advancement, flexible job rotation or moving on to a parallel career. We also offer a wide variety of training and development solutions for personal and professional growth at each stage of your career. [Read more.](#)

**Diversity** is part of who we are. We actively work for caring and **inclusive** working culture where everyone can feel safe and welcome. Our environment is multicultural, widely English-speaking and its easy to settle in, wherever you come from. 40% of our academic faculty comes from outside of Finland.

Because of our goals, we have **high ambition level** in everything we do. At the same time, we believe that great results can only come from **healthy and happy employees**. We have reasonable working hours and longer than usual holidays. Also, we offer comprehensive private occupational healthcare services to all our employees.





# IT Services

## Top-level science and art require support from top-level experts

Aalto University has a strong focus on digitalization, development and creating new. Working with us you will get to see and experience the latest developments in IT industry and take part in big changes.

Aalto IT Services has a key role in supporting digitalization by producing top-level services for researchers, teachers, students and staff members to make their work easier, more flexible, comprehensive and secure regardless of time and location.

**We are trailblazer in digitalization.**  
For example, we have:

- ❑ Strong research competence: e.g., big data, machine learning, algorithms, software, cybersecurity, user interface
- ❑ Multi-disciplinary applications in focus: e.g., industrial internet, new process technologies, service economy, gaming industry
- ❑ Tight collaboration with industry
- ❑ Active startup community

### **Join us in Digital Aalto journey!**

At Aalto, we've already come far in our digitalisation journey. We have a strong research environment and attractive educational offerings supported by digitalisation, as well as a track record of running teaching and research activities online. We use and develop modern digital platforms for a wide range of services. Our next goal is to become a forerunner as a data-driven university.

### **Digitalisation is a key driver and enabler for Aalto's strategic goals:**

- ❑ Enabling clusters of excellence and developing infrastructures for research & design
- ❑ Enhancing education and elevating student experience and quality of learning
- ❑ Building innovation, creative and entrepreneurial ecosystem
- ❑ Investing in community & people, physical and digital infrastructures and services

# Aalto University's IT Operations

Silent Running  
Availability  
Cloud Computing  
Security  
Performance  
End-User Value

## We set the course for Aalto operative IT technology and look actively for new technologies to transform Aalto IT operations to digital age.

Our IT Operations function consists of around 40+ skilled, talented and experienced professionals, passionate about delivering excellent IT technology, services and operations. We currently work in four teams: AV, Cloud & Apps, Digital Workplace and Infra.

We are operating multiple data centers and have hundreds of VM's and petabyte-scale storage. The overall IT landscape consists of a large number of different applications, integrated to work together as a seamless ecosystem.

We are constantly looking for ways to enhance our services, and produce value-added services both for internal IT, and our stakeholders from teaching and research. We also have a major focus on cloud computing, through which we shall be modernizing relevant parts of our infrastructure.

We safeguard the silent running of Aalto IT, ensuring state of the art performance, availability, and security. We lead IT operations problem management, disaster recovery, and risk management.

We work closely together with other functions in IT services, other internal partners, external vendors and the Aalto ecosystem enabling world-class teaching and research through IT.

### **Our way of working**

Our way of working is independent and self-directive. We rely on our people's expertise and give them responsibility.

We actively drive IT operations in our university and want to take them to the next level ensuring customer value.



Aalto University



# System Specialist with ambition for Cloud Computing

## Want to be a game changer? Then join us in developing Aalto University's IT!

### Your role and goals

As a System Specialist in the Cloud & Apps team you participate in the smooth operations of our IT systems, often working with the middleware and OS layer.

In this role you will:

- Design, build, support and maintain IT systems. Take direct responsibility for specific IT systems, and have a supportive role in others
- Work together with other specialists from the Operations teams, as well as with our internal IT and end customers (e.g., research groups using VM's)
- Participate in the upkeep of the VM fleet from the OS/middleware layer
- Strive actively to further develop our systems and operating models, while having a *keep business running* mindset

We also encourage you to develop your skills and participate in the IT transformation of systems to the cloud computing era.

### What we offer

We offer you an interesting, responsible, challenging and contributing role in the heart of Aalto's digitalization. Your work will have direct impact to the research, teaching and societal impact at Aalto University.

We offer great possibilities for competence development and career advancement. You'll be working in a Cloud & Apps team, with close co-operation of our cloud computing experts. In addition to your main responsibilities, you get to develop your expertise for cloud computing (e.g., on Azure, Google Cloud Platform, AWS).

Aalto University puts great focus on employee wellbeing, offering flexible working time and location opportunities to suit your working style. We will work with you to form the best possible work experience during your employment in Aalto University!



# What we are looking for

## Your experience and ambitions

We're looking for a **system specialist** with experience from similar positions.

- Proven critical-thinking skills and problem-solving attitude.
- Ability to work independently on critical IT systems. More of a **generalist** than focused on a specific technology
- Ability to consider the full lifecycle of the services (e.g., reliability, security) together with stakeholders

### Technologies needed

- Knowledge of **Linux** operating systems, knowledge of **Red Hat** (or derivatives such as CentOS or Fedora) environments are a bonus
- Scripting knowledge (e.g., **python** or **bash**) with an automation mindset. Common DevOps tools knowledge is a bonus
- Knowledge of common **middleware** working models and software, such as web serving and load balancing. For example: **Apache**, **Nginx**, **PHP**, **Java**.
- Knowledge of common **database** systems operations (e.g., **PostgreSQL**)

You work well **independently** and **together** with team members. You can take responsibility even during busy schedules. You have good **cooperation** and good **communication** skills.

More than anything, we hope you are **passionate** about your field of work and enthusiastic about constantly **innovating** and **learning** something new together with others.

Aalto University is an international working environment, so we expect you to have good **English** and good **Finnish** language skills.

Would you like to join our  
Cloud & Apps team?

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



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