



Tenure-track/Tenured Professors in Computer Science



Aalto University



Aalto University

A multidisciplinary community of bold thinkers where science and art meet technology and business.

Aalto University is committed to high-quality research with significant impact on the international scientific community, industry and business, as well as the society at large. Aalto's unique profile stimulates collaborations between disciplines and facilitates new innovations.

Academic excellence is combined with multidisciplinary activities, engaging both students and the local innovation ecosystem.

Aalto is committed to identifying and solving grand societal challenges and building an innovative future.

Aalto has six schools with nearly 11 000 students and more than 400 professors. It is an international community: more than 30 per cent of the academic personnel have an international background.

Aalto University was founded in 2010 as a merger of three leading Finnish universities – Helsinki University of Technology, the Helsinki School of Economics and the University of Art and Design Helsinki. Its campus is located in Otaniemi in the city of Espoo, about seven kilometres from downtown Helsinki.

The Otaniemi campus thrives to be a unique, open innovation hub and a focus of collaboration that attracts partners from all around the world, encouraging sharing of ideas, interdisciplinary encounters, creativity, growth and entrepreneurship. The centre of the campus is being developed into a vibrant core with versatile services and attractive places to meet.



More info at
aalto.fi



Department of Computer Science

The Department of Computer Science provides world-class research and education in modern computer science to foster future science, engineering and society. The work combines fundamental research with innovative applications.

Computer Science is the largest department at Aalto University and the largest CS unit in Finland with 44 professors and more than 400 employees. It is routinely ranked among the top 10 CS departments in Europe and in the top 100 globally.

Education

The Department offers three undergraduate degree programmes:

- Computer Science and Engineering
- Data Science
- Information Networks

The Department also offers five Master's programmes taught entirely in English:

- Computer, Communication and Information Sciences (CCIS)
- Life Science Technologies
- Information Networks
- Double degree programme ICT Innovation (EIT Digital Master School)
- Security and Cloud Computing (Erasmus Mundus)

Research

The Department has strong groups in a range of areas including Algorithms, Data Science, Machine Learning and AI, Mobile and Distributed Systems, Security and Privacy, Software Engineering, and Visual Computing and HCI. The current faculty's strength is evidenced in part by the high volume of extremely competitive funding from the Academy of Finland (equivalent to the National Science Foundation) and the European Research Council (ERC). The Department consistently attracts many high-achieving international students entering its MSc and PhD programmes.

Doctoral studies

Doctoral studies are organised through the Aalto Doctoral Programme in Science. The Department has also integrated a doctoral track into a number of its MSc majors, for supporting and expediting the progress of top students who aim for the doctoral degree directly from the Bachelor's level.

The Helsinki Doctoral Education Network in Information and Communications Technology (HICT) is a collaborative doctoral education network hosted jointly by Aalto University and the University of Helsinki, the two leading universities within this area in Finland. The network serves as a collaboration platform for doctoral education combining all the relevant subfields of computer science and information technology at Aalto University and the University of Helsinki. At present, it involves 65 professors and almost 300 doctoral students, and the participating units graduate altogether more than 40 new doctors each year.

More info at
cs.aalto.fi



Professors in Computer Science

The positions are targeted at tenure-track candidates for the Assistant Professor level as well as candidates with outstanding records for the tenured Associate or Full Professor levels.

While we expect most successful applicants to have carried out at least one postdoctoral period, all outstanding candidates will be considered. We strive for gender balance in all positions and at all levels, and particularly encourage female candidates to apply for these positions.

The selected candidates are expected to establish independent research and teaching profiles in computer science. We solicit applicants with expertise in any area of computer science. Applicants specialising in the following areas are particularly welcome.

- Algorithm Engineering
 - algorithms, data structures, experimental algorithmics
- Data Management
 - databases, database systems, data engineering
- Human-Computer Interaction
 - intelligent user interfaces, interactive machine learning, information visualisation, interactive systems, ubiquitous computing, virtual and augmented reality

- Software Engineering
 - software testing and validation, software architecture, empirical software engineering, large-scale systems
- Software Systems
 - operating systems, system software, software development tools, software technologies, programming languages

Aalto University offers excellent opportunities and encouragement for joint work with other fields and with local partners both at Aalto and the University of Helsinki. Collaboration is supported by arrangements such as the Helsinki Institute for Information Technology HIIT, a joint research centre with the University of Helsinki.

A person at any level of the academic tenure track is expected to perform world-class research, to teach, supervise and otherwise advance both graduate and undergraduate education, to be an active member of the international scientific community, and to exhibit academic leadership. Career advances on the tenure track are based on scheduled performance assessments, which take into account the candidate's merits in all these areas.

The positions come with competitive start-up packages. The salaries for the positions follow the salary scale in use at Aalto University, but applicants may also provide salary requirements.



How to Apply

Applicants should **clearly indicate** whether they wish to be considered **(a) for a tenure-track assistant professor position** or **(b) for a tenured position** (at associate or full professor level) or (c) are open to be considered for a position **at any level** (tenure-track or tenured). Applications to different levels of the career system are assessed according to different criteria, and the decision-making process for tenure-track positions is significantly faster than that for tenured positions.

Applications for the position, together with attachments, are to be addressed to the Dean of the Aalto University School of Science and submitted through our recruitment system at https://rekry.saima.fi/aaltohome/aew.html?did=5900&lang=fi&job_id=2080&jc=6.

Applications close on January 10, 2019. The committee may consider additional exceptional candidates throughout the review process.

The application material shall include the following:

1. cover letter that includes a summary of merits and most important achievements,
2. curriculum vitae (with contact details; recommended maximum length two pages),
3. research statement (recommended maximum length four pages),
4. teaching statement (recommended maximum length four pages),
5. names, positions, affiliations and e-mail addresses of five senior academic people available for providing recommendation letters,
6. the web address of the applicant's Google Scholar Profile,

7. list of publications including:

1. five most important publications in ranked order (1,...,5), with links to their pdf versions, and
2. all publications categorised as follows:
 - peer-reviewed journals
 - peer-reviewed conferences
 - other publications

All application materials should be in English, and compiled into one single pdf file, with filename *lastname_firstname_application.pdf*.

The applicants will be reviewed on the basis of their research achievements in relation to career stage, teaching credentials, service to the scientific community and academic leadership. Candidates applying for assistant professor positions will be evaluated based on recommendation letters, whereas candidates applying for tenured positions will be evaluated by external experts. Shortlisted applicants will be asked to supplement their applications with a more detailed research plan and teaching portfolio.

Further Information

Professor N. Asokan tel. +358 50 483 6465,
Professor Pekka Orponen, tel. +358 500 819 491,
HR Coordinator Laura Kuusisto-Noponen
(application process), tel. +358 50 341 0145.
E-mails: firstname.lastname@aalto.fi.

Tenure track at Aalto University

For more information about the Aalto University tenure track system, see http://www.aalto.fi/en/about/careers/career_at_aalto/tenure_track/.



School of Science

Changing the world for the better through high-level research, making a significant impact on society.

The research carried out at the School of Science meets the highest international scientific standards across a range of subject areas and provides a solid basis on which scientific and technological applications are developed. The School has as its mission to boldly and responsibly expand the realms of scientific knowledge and understanding, thus responding to a variety of sustainable development challenges.

Moreover, the School is committed to having an active role in society and promoting the societal impact of research findings both nationally and internationally. The School is an important research partner and has strong connections with many international networks. Over the past twenty years, the School has originated more than a hundred patents and tens of research-based enterprises.

The School has five Departments: Applied Physics, Computer Science, Industrial Engineering and Management, Mathematics and Systems Analysis, and Neuroscience and Biomedical Engineering.

Approximately 3 500 students study at the School of Science, with over 250 Master's degrees and 90 Doctoral degrees awarded each year. In total, the School has almost 1 000 members of academic staff, of whom 125 are professors, 330 doctoral candidates, and 230 postdocs or senior research fellows.

More info at
sci.aalto.fi/en



Living in Finland

Innovative and bold, international at heart.

Finland is located within the Scandinavian region of Northern Europe and has a population of 5.4 million. It is a beautiful and vast country with contrasting landscapes and four distinct seasons, enjoying phenomena such as the midnight sun in the summer and northern lights in the winter. It is [among the best countries in the world](#) according to many quality of life indicators, including being the [overall #1 country in human wellbeing](#).

Finland has one of the most advanced educational systems in the world, and as a result of an innovative mind-set and investment, is proud to provide exceptionally high standards of social security and healthcare, financed by the state. The country embraces some of Europe's last true wildernesses, yet also has comprehensive and reliable transport networks. The Helsinki Vantaa airport serves over 100 direct destinations. It is a popular transfer point between Asia and Europe, with direct connections to Bangkok, Singapore, Hong Kong and several locations in Japan and China. There are also direct flights to several major North American destinations including Chicago, New York and San Francisco.

The city of Helsinki is Finland's capital, with a population of 1.4 million within the metropolitan area. The capital is thriving and is in the midst of the greatest infrastructure upgrade it has seen in a century. Aalto University is situated in Espoo, about seven kilometres west of Helsinki city centre. The campus is directly connected to the city's underground metro network, with a travel time of 10-12 minutes to the heart of the city.

The Visit Finland site provides more details on Finland and Helsinki: visitfinland.com

Further information about Helsinki and Espoo can be found at: visithelsinki.fi/en and visitespoo.fi/en

Further information about living in Finland can be found at finland.fi and for international candidates Aalto University provides useful information at: aalto.fi/aalto-university/international-staff-information-package

The Computer Science Department offers generous relocation assistance to new professors and is committed to providing informal assistance to help their families to settle down in Finland.

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



Aalto University