

Doctoral Candidate in Integrated Circuit Design for
Wireless Applications
Aalto University

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Posted Sep. 17, 2021, set to expire Jan. 17, 2022

Job Title	Doctoral Candidate in Integrated Circuit Design for Wireless Applications
Department	T411 Dept. Electronics and Nanoeng
Institution	Aalto University , , Finland
Date Posted	Sep. 17, 2021
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student Post-Doc
Academic Field(s)	Electrical and/or Electronics
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Job Description

The Department of Electronics and Nanoengineering conducts research and arranges related courses in the field of electromagnetics, micro and nanotechnology, radio engineering, and space technology, featuring an international team of more than 150 Researchers and Research Assistants. The Department is part of the Aalto University School of Electrical Engineering (Aalto ELEC) with world-class research facilities and instruments.

We are now looking for a talented and highly motivated
Doctoral Candidate in Integrated Circuit Design for Wireless Applications

[url=http://https://www.aalto.fi/en/department-of-electronics-and-nanoengineering/electronic-circuit-

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The Electronic Circuit Design unit at the Aalto University invites applications for doctoral candidate positions in the integrated circuit (IC) design. We have several positions open on industrial-driven research projects focusing on future communication and miniature radar technologies.

Job description

In this position, you will do research and doctoral studies on integrated electronic circuit design. Your work will be related to our research projects focusing on wireless IC design, particularly for emerging 5/6G communication. You will learn to design integrated circuits applying the latest nanometer-scale CMOS technology. Depending on your interest and background we can offer you a research topic ranging from MMIC design to mixed-mode and digital designs. You will join an active research group, which research is closely linked to our industrial and academic partners. Our target is that you will acquire the doctoral degree in four years.

Your background

You have a Master's degree in Electrical Engineering. High average grade as well as excellent grades on courses on electronics are appreciated. You may be a fresh M.Sc, or gained already some design experience in industry. Your background and interests can be in any field of integrated circuit design. We expect you to be open-minded for new research, eager to learn more, and fit to teamwork. You need to have some hands-on experience or courses taken on integrated circuit design and tools, please document these activities in your application. In particular, we expect that you have gained some experience on using Cadence tools.

In this position you will apply the study right for doctoral studies in Aalto University. Thus, please check the [\[url=https://into.aalto.fi/display/endoctoralelec/For%3Bprospective%3Bstudents\]](https://into.aalto.fi/display/endoctoralelec/For%3Bprospective%3Bstudents) student information and [\[url=https://into.aalto.fi/display/endoctoralelec/How%3Bto%3Bapply\]](https://into.aalto.fi/display/endoctoralelec/How%3Bto%3Bapply) application criteria.

Research group

The Electronic Circuit Design (ECD) unit of the [\[url=https://www.aalto.fi/department-of-electronics-and-nanoengineering\]](https://www.aalto.fi/department-of-electronics-and-nanoengineering) Department of Electronics and Nanoengineering at the [\[url=http://https://www.aalto.fi/en/school-of-electrical-engineering\]](http://https://www.aalto.fi/en/school-of-electrical-engineering) School of Electrical Engineering at Aalto University is recognized as one of the best in Europe. We have researched RF, analog, and digital integrated circuits already close to thirty years with outstanding outcomes and we have a strong network of collaborators and funding. The Electronic Circuit Design group has three professors (Jussi Rynnänen, Kari Halonen, and Martin Andraud), two senior researchers and about 20 doctoral candidates and research assistants working with world class research facilities. Researchers of the unit have received several awards in highly recognized international conferences, and we publish 10-20

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papers annually. More information about [[url=https://www.aalto.fi/department-of-electronics-and-nanoengineering/jussi-ryynanen-group](https://www.aalto.fi/department-of-electronics-and-nanoengineering/jussi-ryynanen-group)]ECD unit's research.

We offer

The expected starting salary for a doctoral candidate is approximately 2500 €/month and salary will increase with responsibilities and performance over time. As an employer, Aalto University provides excellent learning and development opportunities as well as occupational health care services, commuter ticket benefit and versatile exercise services by Unisport. Finland has a comprehensive social security system. Preferable starting time in the autumn of 2021 or early 2022.

More information

If you wish to hear more about the position, please contact [[url=https://research.aalto.fi/en/persons/jussi-ryynanen](https://research.aalto.fi/en/persons/jussi-ryynanen)]Professor Jussi Ryynanen, [jussi.ryynanen\(at\)aalto.fi](mailto:jussi.ryynanen@aalto.fi).

Ready to apply?

Please submit your application through our recruiting system and include the following documents in English in a single pdf file:

- * Application letter (one A4)
- * Curriculum Vitae (including list of publications if any)
- * Brief description of your research interests
- * Course transcripts of Master's studies with grades and Certificate of Master's degree

Application period closes on October 13, 2021 but we will start reviewing candidates immediately. Applications will be considered until the position is filled.

Please note: Aalto University's employees and visitors should apply for the position via our internal system Workday -> find jobs (not external aalto.fi webpage of open positions) by using their existing Workday user account.

About Aalto University, Helsinki and Finnish society

At Aalto, high-quality research, art, education and entrepreneurship are promoted hand in hand. Disciplinary excellence is combined with multidisciplinary activities, engaging both students and the local innovation ecosystem. Our main campus is quickly transforming into an open collaboration hub that encourages encounters between students, researchers, industry, startups and other partners. 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

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merged to strengthen Finland's innovative capability.

The greater Helsinki region is a world-class information technology complex, attracting leading scientists and researchers in various fields of electrical engineering. As a living and working environment, Finland consistently ranks high in quality of life, and Helsinki, the capital of Finland, is regularly ranked as one of the most livable cities in the world.

Finns are proud to say that we have one of the best education systems in the world. The Nordic values of equality and co-operation are deeply rooted in our society. We are one of the world's top countries in happiness, clean air and nature, 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 the low hierarchy are at the core of our Nordic working environment. Having four seasons, clean air and thousands of lakes, we are nature-loving people who take good care of our unique environment. For more information about living in Finland see Aalto's pages for international staff:

[url=https://www.aalto.fi/en/careers-at-aalto/for-international-staff]https://www.aalto.fi/en/careers-at-aalto/for-international-staff.

More about Aalto University:

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Contact Information

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

Contact

Finland