Doctoral researcher for RF CMOS IC design
Aalto University

Job Title	Doctoral researcher for RF CMOS IC design
Department	T411 Dept. Electronics and Nanoeng
Institution	Aalto University , , Finland
Date Posted	Sep. 26, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-researcher-for-RF-CMOS-IC-design_R44353
Apply By Email	

Job Description

Aalto University is where science and art meet technology and business. We shape a sustainable future by making research breakthroughs in and across our disciplines, sparking the game changers of tomorrow and creating novel solutions to major global challenges. Our community is made up of 13 000 students, 400 professors and close to 4 500 other faculty and staff working on our dynamic campus in Espoo, Greater Helsinki, Finland. Diversity is part of who we are, and we actively work to ensure our community’s diversity and inclusiveness. This is why we warmly encourage qualified candidates from all backgrounds to join our community.?

The Department of Electronics and Nanoengineering conducts research and teaching in the fields of microelectronics, micro and nanotechnology, radio engineering, electromagnetics, and space technology. The department research groups have active national and international collaboration with several institutes and companies. Research groups are working with world-class research facilities and

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instruments; the largest clean rooms in the Nordic countries are located in the Micro- and nanotechnology centre Micronova.

Join Our Cutting-Edge Research Team! We are seeking highly motivated doctoral researchers to join our dynamic team to develop RF CMOS circuits.

Are you passionate about RF integrated circuit design and eager to work on groundbreaking technologies? Look no further!

Our renowned research group, lead by professor Jussi Ryynänen and Sr. Scientist Kari Stadius, specializes in RF and millimeter-wave integrated circuit design and is at the forefront of innovation in 5G/6G communication, joint communication and sensing, and the co-design of antennas and transceiver electronics. We possess an exceptional design and measurement environment, complete with access to advanced FinFET and GaN IC technologies, providing an unparalleled platform for your research and development. By joining our group, you will receive hands-on education on CMOS design and gain invaluable experience, positioning yourself as an expert in high-frequency integrated circuit design.

Specifically for this position, we are conducting research on wideband RF sensors and antennas, and we are developing unique radio head with CMOS technology for these applications.

Your experience and ambitions
Candidates should possess basic skills in integrated circuit design and a strong drive to push the boundaries of technology. At minimum, we expect you to have conducted studies and some experimental work, such as a project work, on IC design during your studies. Experience on using IC design software, such as Cadence, Mentor, or Keysight ADS, is necessary. Document these activities well in your application - they form the first level of evaluation.

Applicants for doctoral researcher position must fulfill the admission criteria of the Aalto Doctoral Programme and, if chosen for a position, apply for, obtain, and accept the right to pursue doctoral studies at Aalto University.

For more information on the general requirements and the application process for doctoral studies, please visit [url=https://www.aalto.fi/en/doctoral-education/how-to-apply-for-doctoral-studies]https://www.aalto.fi/en/doctoral-education/how-to-apply-for-doctoral-studies

What we offer
The doctoral researcher’s position will be filled for 2 + 2 years (doctoral studies are expected to

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take 4 years in total). The salary will be based on both the job requirements and the employee’s personal performance in accordance with the salary system of Finnish universities. The starting salary for a doctoral student is approximately 3000 EUR/month.

We offer a wide range of staff benefits, such as occupational health care, flexible working hours, excellent sports facilities on campus and several restaurants and cafés on campus with staff discounts. The position is located at the Aalto University Otaniemi campus which can be easily reached by public transport.

Join us!
To apply, please share the following application materials with us through our recruitment site ("Apply now!”). All materials must be submitted in English and in PDF format, a maximum of five (5) files, each no larger than 5MB. Application material should include:?? * Letter of motivation (max. one page). Please describe your background and future plans.?? * A curriculum vitae (CV) and possible list of publications with complete study and employment history. Point out your studies & experience on IC design. * A study transcript provided by the applicant’s university that lists studies completed and grades achieved.?? * A copy of the M.Sc. degree certificate or equivalent. (for doctoral study application, it will need to be officially translated into Finnish, English or Swedish). If the degree is still pending, then a plan for its completion must be provided.?? * Plan for obtaining a certificate of proficiency in English/Finnish/Swedish for doctoral study application if the position is offered

As we will start reviewing and interviewing candidates immediately, please apply as soon as possible, at the latest October 31th, 2025.

Please note: Aalto University’s employees should apply for the position via our internal HR system Workday (Internal Jobs) by using their existing Workday user account (not via the external webpage for open positions). Aalto University’s students?and visitors should apply as external candidates with personal (not aalto) email.?

For more information regarding the open position, please contact Senior Scientist Kari Stadius [url=mailto:kari.stadius@aalto.fi]kari.stadius@aalto.fi. In any questions regarding the recruitment process, please contact HR Advisor Monika Mäkinen, [url=mailto:hr-elec@aalto.fi]hr-elec@aalto.fi.

Aalto University reserves the right to leave the positions open, extend the application period, reopen the application process, and consider candidates who have not submitted applications during the application period.

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About Finland
Finland is a great place for living with or without family - it is a safe, politically stable and well-organized Nordic society. Finland is consistently ranked high in quality of life and was just listed again as the happiest country in the world: [url=https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/]https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/. For more information about living in Finland: [url=https://www.aalto.fi/en/careers-at-aalto/for-international-staff]https://www.aalto.fi/en/careers-at-aalto/for-international-staff .

Contact Information

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

Contact

Finland