

Postdoctoral Researcher in mixed-signal Integrated Circuit
Design for Edge AI Accelerators
Aalto University

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Job Title	Postdoctoral Researcher in mixed-signal Integrated Circuit Design for Edge AI Accelerators
Department	T411 Dept. Electronics and Nanoeng
Institution	Aalto University , , Finland
Date Posted	Aug. 12, 2021
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Electrical and/or Electronics
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Job Description

POSTDOCTORAL RESEARCHER in mixed-signal Integrated Circuit Design for Edge AI Accelerators

“Designing the next generation of custom integrated circuits accelerating AI on the edge, for smarter and more energy-efficient electronic systems”

What you will do

We all witness the rapid developments of applications such as face or object recognition, powered by the latest advances in artificial intelligence (AI). Yet, a massive challenge is to embed these applications onto our portable devices, as they do not have large computing resources available. One way forward is the design of dedicated hardware accelerators, aimed to run AI algorithms with

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accuracy and energy efficiency. We are looking for a post-doctoral researcher to tackle this challenge in the context of an industrial collaboration.

In this position, you will design Integrated Circuit (IC) accelerators for several artificial intelligence applications. You will develop novel design ideas, and coordinate a team of several doctoral students, in a team at the interface between artificial intelligence algorithms and circuit design. You will work in a multidisciplinary network, in close collaboration with other researchers, to grow, design and promote your ideas with full-custom ICs.

What we offer you

Exciting working topic. You will apply and develop your competences, at the interface between IC design and AI. You will work with renowned industrial partners.

Supportive working environment. We offer you to the possibility to design ICs in the latest nanometer-scale CMOS technologies, participating in multi-project wafer runs and using a state-of-the-art measurement lab. You will integrate into our international and supportive research team.

Competitive salary and contract terms. The starting gross salary for a postdoctoral researcher is approximately 3600€ to 3800€ /month, depending on your experience. Salary can increase with responsibilities and performance over time. Duration of the contract can be negotiated. 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.

Living environment. The School of Electrical Engineering is located at the Aalto University Otaniemi campus in the Helsinki metropolitan area, Finland. As a living and working environments, Finland consistently ranks high in quality-of-life. For more information about living in Finland please visit our information pages for international staff: [[url=https://www.aalto.fi/en/services/why-finland](https://www.aalto.fi/en/services/why-finland)]<https://www.aalto.fi/en/services/why-finland>.

Who you are

- You have a Doctoral degree in Electrical Engineering, with experience in mixed-signal Integrated Circuit (IC) design (digital and/or analog).
- You just obtained your diploma, or you already gained some design experience in industry.
- You are passionate about IC design for artificial intelligence and you are willing to work in a multi-disciplinary field.
- You are open-minded for new research, eager to learn more and fit to teamwork.
- You have already some tape out experience. Knowledge about sub-65nm CMOS technologies is a

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strong asset. Experience in digital and/or analog can be both suitable for this position.

Who we are

[\[url=https://www.aalto.fi/en/department-of-electronics-and-nanoengineering/electronic-circuit-design\]](https://www.aalto.fi/en/department-of-electronics-and-nanoengineering/electronic-circuit-design)The Electronic Circuit Design (ECD) unit of the Department of Electronics and Nanoengineering at the School of Electrical Engineering has 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 ECD unit has three professors (Jussi Ryyänen, Kari Halonen and Martin Andraud), three senior researchers and about 20 doctoral candidates and research assistants.

More information

If you wish to hear more about the position, do not hesitate to contact

[\[url=https://research.aalto.fi/en/persons/martin-andraud/network/\]](https://research.aalto.fi/en/persons/martin-andraud/network/)Assistant Professor Martin Andraud, [martin.andraud\(a\)aalto.fi](mailto:martin.andraud@aalto.fi).

Ready to apply?

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

- Application letter
- Certificate of doctoral degree
- Curriculum Vitae (including the list of publications)
- Additional description of your research interests (0.5 - 1 A4 page)
- Possible References (names of referees or recommendation letters)

The call is open until September 13, 2021, but we will start reviewing and interviewing candidates immediately.

More about Aalto University:

[\[url=http://www.aalto.fi\]](http://www.aalto.fi)Aalto.fi

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Contact Information

Please reference Academickeys in your cover letter when

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applying for or inquiring about this job announcement.

Contact

Finland