

Postdoctoral Researcher in RISC-V microprocessor and
accelerator design
Aalto University

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Posted Nov. 6, 2024, set to expire Mar. 8, 2025

Job Title	Postdoctoral Researcher in RISC-V microprocessor and accelerator design
Department	T411 Dept. Electronics and Nanoeng
Institution	Aalto University , , Finland
Date Posted	Nov. 6, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Electrical and/or Electronics
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Postdoctoral-Researcher-in-RISC-V-microprocessor-and-accelerator-design_R41299-1

Apply By Email

Job Description

Are you a PhD with enthusiasm towards programming, computer architectures and microprocessor development? Here is an opportunity for you to join the microprocessor development activities of Aalto Microelectronics Research Center ([\[url=https://metka.aalto.fi\]](https://metka.aalto.fi)<https://metka.aalto.fi>).

RISC-V is an open-source microprocessor instruction set, which is gaining interest in academia and industry. In Aalto, Department of Electronics and nanoengineering, we have developed our own open-source RISC-V core implementation that we can use as a controller in our mixed-mode System-on-Chip designs.

We are looking for a postdoctoral researcher to work with us on this area of research. In this position we provide the possibility for hands-on development of your ideas in processor design as a member of

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our RISC-V design team within the scope of the projects you will be affiliated with.

Topic focuses on improving current RISC-V implementation and merging it with digital and analog signal processing and cryptography accelerators and sensor interfaces advancing to implementation on silicon or verification on FPGA according to your preferences. The position is appropriate for PhDs eager to reach to state-of-the-art, with enthusiasm to go where very few have gone before.

The successful execution of the work requires willingness to learn fluent Unix working habits, Git version control, shell scripting, Python, and Scala/Chisel programming, complemented with doctoral level knowledge of digital and analog design tools and methodology. Minimum entry criteria is D.Sc. or PhD degree in microelectronics design or computer science and working proficiency in English.

Join us!?

To apply, please share the following application materials with us through our recruitment site ("Apply now!"). ?

All material should be submitted in English and a pdf-file. You can send in max. Five (5) documents up to 5M bit in size. Application material should include:?? *

Letter of motivation (max. one page). Please describe your background and future plans.??? *

A curriculum vitae and possible list of publications with complete study and employment history, contact details of referees from 2 senior academic people. We will contact your referees, if recommendation letters are required.? (please see CV example

[url=https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Ftenk.fi%2Fsites%2Fdefault%2F06%2FTENK_CV_template_2020.docx&wdOrigin=BROWSELINK%22%20t%20%22_blank]TENK_CV_t (live.com))?? *

A study transcript provided by the applicant's university that lists studies completed and grades achieved.??

The call is open until the 30th of November 2024, but we will start reviewing and interviewing candidates immediately. We encourage you to apply as soon as possible.

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.?

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The starting salary is approximately 4000 eur/month depending on the experience. The position will be filled for 1-3 years. 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. 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.

Want to know more?

Further information please contact Associate Professor Marko Kosunen,
[url=mailto:marko.kosunen@aalto.fi]marko.kosunen@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.

In any recruitment process related questions, please contact HR Partner Karoliina Walldén
([url=mailto:karoliina.wallden@aalto.fi%22%20t%20%22_blank]karoliina.wallden@aalto.fi).?

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 arranges related courses in the fields of electromagnetics, micro and nanotechnology, radio engineering, 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 instruments; the largest clean rooms in the Nordic countries are located in the Micro- and nanotechnology centre Micronova.

Contact Information

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

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