

Program-Specific Researcher (Postdoc) position at the Department of Communications and
Computer Engineering, Graduate school of informatics

January 13, 2023

Job title	Program-Specific Researcher (Postdoc)
Number	One person
Location	Integrated Systems Engineering Laboratory, Department of Communications and Computer Engineering, Graduate school of informatics (Location: Yoshida-Honmachi, Sakyo-ku, Kyoto)
Job description	Engaged in a project at Kyoto University on the research of CMOS integrated circuits that can operate at cryogenic temperatures for qubit control. Using commercially available CMOS processes, this project will pioneer circuit designs that pursue the ultimate in energy efficiency at cryogenic temperatures. Specifically, the project aims to optimize basic block circuits that constitute processors such as memory, flip-flops, and PLLs at cryogenic temperatures, and to clarify the operating characteristics at cryogenic temperatures through actual measurements and chip prototyping, and summarize and publish the findings in academic journals.
Requirements	<ul style="list-style-type: none"> • The candidate should possess a doctoral degree (including prospective doctoral degree) in a related field, or have a research achievement equivalent to a doctoral degree. • Generally, successful candidate is expected to have knowledge and expertise in the following areas: Integrated circuit field and Integrated circuit design.
Contract Start Date	After April 1st, 2023 to March 31, 2024 * As early as possible (Negotiable) * The employment contract is renewable until the end of the program, based on evaluation results
Probation period	Six months in accordance with the regulations of Kyoto University
Business hours	Full-time employment in a discretionary work system, based on 7 hours, 45 minutes (8:30-17:15 work schedule with a one-hour break) per day, 38 hours 45 minutes per week. Days off: Saturday, Sunday, National holidays, Year-end and New Year holidays, Foundation Day.
Salary	Salaries are determined based on the Kyoto University Standards depending on capabilities and backgrounds (annual salary system)
Allowance	Any allowance such as commuting expenses, housing expenses, bonuses, etc. is not provided.
Social insurance	<ul style="list-style-type: none"> • Mext Mutual Aid Associations • Employee's pension insurance • Employment insurance • Worker's accident insurance

Referral Instructions	<p>Please submit the following PDF formatted application by email, with the subject "Job Application of Integrated Systems Engineering Laboratory.</p> <p>(1) Complete CV (with photo and email address) (2) List of research achievements</p> <p>*Also attach ONE representative paper related to the position applied to.</p> <p>(3) Previous research and future research plan (A4, 2 pages) (4) Certificate of graduation for the highest level of education achieved or copy of said diploma (5) A letter of recommendation from the PI of current laboratory</p> <p>* A recommendation from a third party is allowed when it is difficult for the candidate to obtain a recommendation from the PI of current laboratory. * The letter should be addressed to Hiromitsu Awano. (6) A work/research reference who can be contacted for an opinion (with affiliation and email address)</p> <p>Submit by email to: awano (at) i.kyoto-u.ac.jp (Please replace (at) with @) Hiromitsu Awano, Associate Professor, Integrated Systems Engineering Laboratory, Department of Communications and Computer Engineering, Graduate school of informatics</p>
Application Deadline	Open until the position is filled
Screening	<p>After the first screening (examination of application documents) successful candidates will be contacted for an interview.</p> <p>* Please note that any travel expenses incurred will not be reimbursed.</p>
Contact	<p>Department of Communications and Computer Engineering, Graduate school of informatics, Kyoto University, Secretary Shuko Nishiyama secretary *easter.kyoto-u.ac.jp (Please replace * with @)</p>
Notes	<ul style="list-style-type: none"> • We cannot answer questions about the selection process, or the reasons for acceptance or rejection. The submitted documents will be used only for recruitment screening. We will not disclose, transfer or lend these data to a third party without a justifiable reason. Please note that application documents will not be returned. • To prevent passive smoking, Kyoto University prohibits smoking at indoors and outdoors at all campuses except for the designated smoking areas. • Kyoto University is building a culturally diverse faculty and strongly encourages applications regardless of gender or disability.