

Announcement of Faculty Position

*Faculty of Electrical, Information and Communication Engineering
Institute of Science and Engineering, Kanazawa University*

1. Position:

Professor or Associate Professor

2. Affiliation:

Faculty of Electrical, Information and Communication Engineering, Institute of Science and Engineering, Kanazawa University

<https://www.se.kanazawa-u.ac.jp/en/information/index.html>

3. Field of specification:

Advanced research area related to quantum science and technologies underlying quantum computers, quantum algorithms, quantum sensors, and quantum networks. The candidate will be required to enthusiastically engage in building the academic system and the curriculum development to integrate the technical fields on traditional digital systems and emerging quantum systems and propose innovative quantum systems and applications to promote the social implementation of quantum technologies. The candidate will participate in a research project “Promotion of secure super smart society (Society 5.0) through the integration of IoT, AI, and cyber security”, and will be expected to contribute to the research in quantum internet and post-quantum IoT and to education and research instructions for students pursuing the electrical, information and communication engineering.

4. School and Division (Teaching responsibility):

- 1) Liberal Arts and Science
- 2) Information and Communication Engineering Course, School of Electrical, Information and Communication Engineering, College of Science and Engineering, and its former organization, Information System Course, School of Electrical and Information Engineering, College of Science and Engineering
- 3) Division of Electrical, Information and Communication Engineering, Graduate School of Natural Science and Technology, and Division of Electrical Engineering and Computer Science, Graduate School of Natural Science and Technology

5. Subject responsible for:

Lecture and experiment on subjects associated with quantum computing, quantum communication, computer and programming for undergraduate course and graduate course

6. Employment status:

A full-time professor, No specified limit on term, or

A full-time associate professor, No specified limit on term

7. Compensation:

Annual salary system is applied.

8. Qualification requirements:

- 1) The candidate should be a researcher with a doctoral degree.
- 2) The candidate should have enthusiasm for education and research and can actively work for the collaboration between industry and university.
- 3) The candidate should have outstanding research achievements in quantum science and technologies underlying quantum computers, quantum algorithms, quantum sensors, and quantum networks.
- 4) The candidate should have sufficient communication skills in English and Japanese.

9. Start of employment:

An appointee is expected on duty on February 1st, 2023 or any early possible date afterwards

10. Documents for applications (A4 size paper)

For the item 1) - 5) described below, please use the MS word format located at

<https://www.se.kanazawa-u.ac.jp/en/researchers/koubo-e.html>

Use separate sheets for other item 6) - 9) with free format.

- 1) Curriculum vitae (including Photograph, Family and given names, Age, Postal number, Home address, Telephone number, Email address, Educational background starting from university and afterward, Degree, Job carrier, Conferences and social activities, Rewards and punishments),
Corresponding part in the format) I. Curriculum Vitae (Telephone number should be written below e-mail address.)
- 2) List of publications (Journal papers, International conference papers, Keynote lectures and Special lectures at international conference, Published work and compilation work, Report, commentary and general remarks, Patents, etc.) (Journal papers and international conference papers (reviewed) should be respectively listed in chronological order.) (Candidate's name, co-author's name, journal title, volume, number, first and last pages

(paper number) and published year should be provided. Candidate's name should be underlined. Each paper published in journal listed in SCI-expanded should be marked by an * (asterisk) and the journal's impact factor should be given.),

Corresponding part in the format) II. Research Performance 1. Research Papers – 6. Patents, etc., III. Research Activity, Educational Activity, and Conference and Social Activities 1. Research Activities (1) Number of research achievements

- 3) List of activities in academic society,
Corresponding part in the format) III. Research Activity, Educational Activity, and Conference and Social Activities 3. Academic Societies and Social Activities (within past 5 years)
 - 4) List of research grants acquired,
Corresponding part in the format) IV. Grants
 - 5) Aspirations for education and research
Corresponding part in the format) V. Aspirations for Education and Research (within one A4-size page)
 - 6) Details of research and educational experiences (within one A4-size page) (In case of writing in English, the number of characters is not limited to 1,500 characters.),
 - 7) Hard copies of the 3 to 5 most important papers,
 - 8) Two referees (Name, affiliation, E-mail address and phone number)
 - 9) Position the candidate would like to apply for (Professor or Associate Professor)
- ★ Submit all the above documents in Word or PDF files on CD-ROM or USB memory stick, together with the hardcopies

11. Deadline for application:

September 30th, 2022 (no later than this due date)

12. Selection process:

After reviewing the submitted documents, shortlisted candidates will be requested to give presentation and take interview. In that case, travel expenses will not be covered.

13. Postal address:

Documents should be sent by registered mail/courier marked with “Application to Faculty Position on Quantum Science and Technology” on the envelope to
Prof. Satoshi YAGITANI, Chair of the Faculty of Electrical, Information and Communication Engineering,
Institute of Science and Engineering,
Kanazawa University, Kakuma-machi, Kanazawa 920-1192, Japan

14. Contact person:

Prof. Akio KITAGAWA

E-mail: kitagawa@is.t.kanazawa-u.ac.jp

15. Additional information:

- 1) All of the documents should be sent to the postal address provided above. The submitted documents will not be returned.
- 2) The website below gives information about employment regulation.
<http://www.kanazawa-u.ac.jp/university/administration/regulation/rules> (in Japanese)
- 3) Kanazawa University promotes the courses delivered in English under the internationalization policy.
<http://sgu.adm.kanazawa-u.ac.jp/en/kusgu/project.html>
- 4) Kanazawa University promotes the development of diversity in the research and education environment.
<https://cdl.w3.kanazawa-u.ac.jp/index.html>
- 5) The Institute of Science and Engineering welcomes applications from female researchers in accordance with the purport of the Basic Act for Gender Equal Society