

■ Job Information

Subject No.	2026R-44
Job Title	Fixed Term Researcher
Department	Advanced ICT Research Institute / Koganei Frontier Research Center, Quantum ICT Laboratory
Work Contents (Research theme)	Research and development of noise-tolerant quantum node technology using superconducting quantum circuits
Detail of Work Contents	This research aims to establish noise-resistant quantum state control technologies for advancing quantum communication and computing, with a focus on applications to quantum nodes. These technologies are essential for improving the precision and stability of qubits and will be utilized to develop next-generation superconducting qubits that overcome current limitations. Through innovations in fabrication techniques and evaluation methods, we aim to achieve high-performance quantum bits. We seek researchers with expertise in microwave engineering, superconductivity, semiconductor electronics, or related fields. Those with a passion for quantum technology and experimental research experience are welcome, regardless of their specific background. Join us to pioneer the future of quantum technology. The Article 15(2) of the Act on the activation of Science, Technology and Innovation will be applied to this work content.
	Employees to be hired through this recruitment may apply for external competitive research fundings such as Grant-in-Aid for Scientific Research (KAKENHI) and NICT's internal research fundings.
Application requirement	A Ph.D. is required. Experience in sample fabrication using semiconductor microfabrication techniques and measurements using a dilution refrigerator is desirable. Prior experience in characterizing quantum circuits, including superconducting qubits, is an additional advantage. Experience in developing measurement programs using Python is considered a plus.
Recruiting (Number of people)	1
Contract period	hiring date ~ March 31, 2027 N.B. Contract could be renewed.
The employment period in case of fully renewing	Up to 5 years if certain conditions are fulfilled
Salary (basic salary)	¥515,000 ~ ¥534,000/month Basic salary shall be determined by taking into account each employee's experience and task to be engaged in. However, as a basic salary is compliant with government employees' wages, it shall be changed when a basic salary is changed after labor union and the like of NICT agreed under a revision to the government employees' wages.
Work Place	Headquarters (Koganei-shi, Tokyo)
Working frequency	5days/week (7.5hours/day)

* Scope of change in work and workplace : No changes are expected in general

* The expressions used in "Work Contents (Research theme)" and "Detail of Work Contents" and the names of "Department" and "Work Place" may be subject to change due to organizational restructuring or other reasons.