

■ Job Information

Subject No.	2025R-26
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	<p>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.</p> <p>The Article 15(2) of the Act on the activation of Science, Technology and Innovation will be applied to this work content.</p>
	<p>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.</p>
Application requirement	<p>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. 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.</p>
Recruiting (Number of people)	1
Contract period	hiring date ~ March 31,2026 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)	<p>¥484,000 ~ ¥516,000/month</p> <p>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.</p>
Work Place	Headquarters (Koganei-shi, Tokyo)
Working frequency	5days/week (7.5hours/day)

\*Department name and work place including work contents (research theme) and detail of work contents might change according to organizational change, etc.

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