

■ Job Information

Subject No.	2023R-21
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>Research and development of technology essential for noise-resistant quantum state control. We will gather the obtained elemental technologies and conduct research and development of fabrication and evaluation technologies for the realization of new superconducting qubits that exceed the performance of current qubits.</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> <p>The Article 15(2) of the Act on the activation of Science, Technology and Innovation will be applied to this work content.</p>
Application requirement	<p>It is preferable to have experience in sample preparation using semiconductor microfabrication technology and experience in measurement using a dilution refrigerator. It is further desirable to have experience in characterizing quantum circuits (including superconducting qubits). Experience writing measurement programs in Python is a plus.</p> <p>We are looking for a wide range of researchers who are enthusiastic about challenging research and development, such as researchers with research experience in devices and manufacturing processes in other fields such as semiconductor electronics and spintronics. If you have a passion for research in quantum technology and experience in experimental research, it doesn't matter what field of research you've done so far.</p>
Recruiting (Number of people)	1
Contract period	hiring date ~ March 31,2024 N.B. Contract could be renewed.
The employment period in case of fully renewing	Up to March 31,2026 if certain conditions are fulfilled
Salary (basic salary)	<p>¥471,000 ~ ¥509,000/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.