

■ Job Information

Subject No.	2025R-136
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 Quantum Software through Intelligent Quantum Design and Its Applications
Detail of Work Contents	<p>Research Theme Summary : This project is part of the Q-LEAP program, “Research and Development of Quantum Software through Intelligent Quantum Design and its Applications.” The research will focus on optimal quantum control and quantum algorithms, with specific aims as follows:</p> <ol style="list-style-type: none"> 1. Research and development of optimal quantum control methods (such as quantum circuit reduction techniques) that are useful for implementing quantum algorithms on NISQ devices. 2. Research and development of platforms (including concrete control procedures) that generate optimal quantum control on actual quantum computers, particularly in view of various quantum computing architectures expected to acquire error tolerance in the near future. 3. In parallel, research and development of quantum algorithms that contribute to the efficient use of computational resources for solving real-world problems. <p>The Article 15(2) of the Act on the activation of Science, Technology and Innovation will be applied to this work content.</p>
	In accordance with the policy of the Japanese government decided on February 12, 2020 (https://www8.cao.go.jp/cstp/compefund/jisshishishin.pdf), 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 if conditions of employees meet the requirements of the policy.
Application requirement	<p>Qualifications</p> <ul style="list-style-type: none"> • Applicants must hold a doctoral degree and have a proven research record in the field of quantum information processing. • Candidates are expected to have original ideas concerning quantum algorithms and quantum control dedicated to solving real-world problems. • Knowledge of various quantum algorithms, such as Shor’s algorithm, is desirable, but not mandatory. • Experience in generating control pulses for actual quantum computing hardware is desirable, but not mandatory.
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>¥515,000 ~ ¥534,000/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.