■ Job Information

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| Subject No. | 2027R-60 |
| 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 highperformance 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.<br><br>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 | We are seeking candidates who hold a Ph.D. or equivalent degree and are capable of conducting research on superconducting quantum devices, or R&D on photonic link technologies related to the optical control of superconducting qubits. Furthermore, the ideal candidate will proactively acquire new knowledge and skills, and be able to advance their research themes independently. |
| Recruiting (Number of people) | 1 |
| Contract period | hiring date ～ March 31,2028<br>N.B. Contract could be renewed. |
| The employment period in case of fully renewing | Up to 5years if certain conditions are fulfilled |
| Salary (basic salary) | ¥541,000 ～ ¥558,000/month<br><br>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<br>(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.

NICT Fixed Term Positions Job Announcement: https://www.nict.go.jp/en/employment/index-e-top.koubo.html