■ Job Information

Subject No.	2027R-63
Job Title	Fixed Term Researcher
Department	Advanced ICT Research Institute / Koganei Frontier Research Center, Quantum ICT Laboratory
Work Contents （Research theme)	Fundamental Research and Development of Photonic Quantum Information Processing through Advanced Control of Quantum Light
Detail of Work Contents	We conduct research and development to advance quantum-light generation, control, and detection technologies, including those for entangled photon pairs and squeezed light, as well as fundamental research and development on quantum cryptography, quantum communications, and quantum information processing using these technologies. In recent years, research toward advanced photonic quantum information processing has been actively pursued worldwide by effectively exploiting various degrees of freedom of light, including polarization, time, frequency, and quadrature amplitudes. We welcome researchers who can actively pursue challenging research toward the realization of new photonic quantum information processing technologies based on quantum optics and quantum information theory. 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	Applicants should hold a doctoral degree and have knowledge of quantum communications and/or quantum information. Research experience in experimental studies related to the following areas of laser physics at a university, research institute, or company is desirable. (Applicants with expertise in other fields are also encouraged to apply, provided that they demonstrate a willingness to contribute proactively to the research.) (1) Quantum optics (e.g., single-photon detection technologies) (2) Nonlinear optics (including ultrashort-pulse-related research) (3) Stabilization and control of optical interferometers (4) Optical communications (e.g., optical modulation and homodyne detection technologies) (5) Optical clock synchronization and control technologies (6) Digital signal processing technologies using FPGAs and related platforms
Recruiting (Number of people)	1
Contract period	hiring date ～ March 31,2028 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 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.

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