■ Job Information

Subject No.	2027R-79
Job Title	Fixed Term Researcher
Department	Cybersecurity Research Institute / Security Fundamentals Laboratory
Work Contents (Research theme)	Security evaluation of cryptography by next-generation computers
Detail of Work Contents	Research the impact of next-generation computers (e.g. quantum computers) to modern cryptography from theoretical and experimental aspects, and predict when the cryptographic parameter will be insecure. The research topic includes the evaluation of cryptography-related computational problems such as the integer factorization problem and the discrete logarithm problems, by using quantum computers ans simulators. 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	The applicant must hold, or be expected to obtain, a doctoral degree, or possess research ability equivalent thereto. Knowledge of public-key cryptography and quantum computing and knowledge of quantum computing in cryptography (e.g. Shor's algorithm) (Optional) Experience in implementing cryptography-related computations on next-generation computers, e.g., an experiment with Shor's algorithm on a quantum computer.
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