■ Job Information

Subject No.	2027R-42
Job Title	Fixed Term Researcher
Department	Beyond Connectivity Research and Development Promotion Unit / Advanced Connectivity Bridge, Social-ICT Systems Laboratory
Work Contents （Research theme)	Research and Development of Systems and Services for Advanced Integration of Physical and Cyber Spaces Based on High-Frequency IoT Technologies
Detail of Work Contents	This research focuses on the development of next-generation cyber-physical systems and related services that closely integrate physical and cyber spaces through the use of high-frequency IoT technologies, including millimeter-wave and terahertz communications, space-time synchronization technologies, and artificial intelligence (AI). The research will investigate large-scale data collection and distribution methods enabled by high-frequency IoT communications, high-fidelity digital twin construction technologies based on space-time synchronization information, and AI-driven estimation, prediction, and optimization techniques in cyber space. The effectiveness of these technologies will be validated through experimental demonstrations utilizing drones, autonomous mobile robots, vehicles, and other mobile platforms. Furthermore, the research will promote the creation of new scientific knowledge through collaborations with domestic and international research institutes, universities, and industrial partners, while generating research outcomes in the form of peer-reviewed journal publications, international conference presentations, and patent applications. Through these activities, the research aims to establish the academic foundations of next-generation cyber-physical systems based on high-frequency IoT technologies and to advance research and development that contributes to their future social deployment. 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 must hold a Ph.D. degree in Information Science, Electrical and Electronic Engineering, Communications Engineering, Information and Communication Network Engineering, Control Engineering, Mechanical Engineering, or a related field, or be expected to obtain the degree by the time of appointment. Applicants must have research and development experience in areas such as high-frequency communications, wireless communication systems, cyber-physical systems, artificial intelligence (AI), digital twins, robotics, or related fields, and be capable of independently planning, conducting, evaluating, and disseminating research activities. In addition, applicants must be able to generate research outcomes through collaborations with domestic and international research institutes, universities, and industrial partners, including peer-reviewed journal publications, international conference presentations, and patent applications. Experience in research related to high-frequency IoT communications, space-time synchronization technologies, artificial intelligence, digital twins, autonomous mobile robots, drones, or closely related fields is desirable. Experience in international collaborative research, acquisition of competitive research funding, participation in standardization activities, or intellectual property activities is also desirable. Furthermore, applicants who aspire to become future research leaders capable of planning, promoting, and managing large-scale research and development projects are particularly encouraged to apply.
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