Subject No. Job Title Department Work Contents (Research theme)	2025R-133 Fixed Term Researcher Beyond 5G Research and Development Promotion Unit / Terahertz Technology Research Center, Terahertz Laboratory Remote sensing at high frequency We are seeking researchers to engage in the development of remote sensing technologies utilizing high-frequency waves. The aim is to generate new scientific and societal value through integrated research targeting Earth,
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Detail of Work Contents	the Moon, and other planetary bodies. Applicants are expected to apply their expertise to one or more of the following research areas:(1) Research on measurement using integrated knowledge from the ground using small IoT devices, etc. 2) Research on high-frequency sensing observation from space using satellites (terahertz wave sensor development, calibration, data analysis algorithm analysis, validation, laboratory spectroscopy, etc.) and higher-order scientific analysis of earth observation data. (iii) Data validation, etc., using AI, etc., in higher-order analysis of earth observation data, and improvement of data accuracy, speed, and efficiency of processing. (4) In measurement using small IoT devices, evaluation and verification of the SNAP-CII air quality evaluation algorithm, and research and development of new data analysis (5) Others
	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 meet the following criteria. Please clearly describe your specific experience and achievements related to each item in your application. 1. Field of Expertise and Research Experience equivalent to a doctoral degree in one or more of the following areas: Sensing technologies using high-frequency waves, particularly terahertz waves Development, calibration, and operation of sensors for space- and Earth-observation Environmental measurement and data collection using Iof Gwices Analysis and validation of remote sensing data using AI and machine learning Research and application of air quality evaluation algorithms 2. Technical Skills Applicants should be proficient in one or more of the following technical areas: Sensor development (hardware design, spectroscopy, calibration techniques) Data analysis and algorithm development using Python, MATLAB, R, or similar tools Implementation of AI and machine learning techniques (e.g., CNNs, random forests, time-series analysis) Knowledge of communication technologies, including IoT communication protocols, satellite communications, and data transmission optimization 3. Research Achievements A track record of peer-reviewed publications and presentations at international conferences Experience in obtaining external research funding (e.g., competitive grants, collaborative research funding) is desirable 4. Collaboration and Communication Skills Ability to actively engage in interdisciplinary and team-based research Proficiency in academic writing and presentations in English (submission of TOEICTOEFL scores is optional) 5. Other Desirable Qualifications Interest in Earth, lunar, and planetary sciences, and motivation to apply research to societal challenges Willingness to contribute to education and human resource development (experience in supervising students is a plus) Experience in collaborative research with public institutions or private companies is welcomed Experience in planning and managing research projects, either as a principal investigator
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)	¥515,000 ~ ¥534,000/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)

^{*}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.