

■ Job Information

Subject No.	2024R-42
Job Title	Fixed Term Researcher
Department	Advanced ICT Research Institute / Koganei Frontier Research Center, Terahertz ICT Device Laboratory
Work Contents (Research theme)	R&D of terahertz- and millimeter-wave high-power amplifier MMIC design, simulation and front-end module technology
Detail of Work Contents	<p>The research and development of the basic technology related to the high-power amplifier MMIC and front-end module for terahertz- and millimeter-wave wireless and sensing technologies is carried out. Examples include the following, but specific topics will be determined according to the professional and experience of the researcher. 1) development of high-power amplifier MMIC design and simulation technology using foundry service PDK (Process Design Kit) of compound semiconductor materials (e.g. InGaAs, InP, and GaN), 2) development of front-end module and packaging technology using the high-power amplifier MMIC.</p> <p>The Article 15(2) of the Act on the activation of Science, Technology and Innovation will be applied to this work content.</p>
	<p>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.</p>
Application requirement	<p>Ph.D degree in science and/or engineering (candidates who are about to earn their degree are welcome to apply). Experience and knowledge on power amplifier module and MMIC, integrated circuit design and modeling, circuit simulation and electromagnetic (EM) analysis, front-end module and packaging. High motivation and dedication for scientific work. Ability to work creatively in a multidisciplinary team.</p>
Recruiting (Number of people)	1
Contract period	<p>hiring date ~ March 31,2025 N.B. Contract could be renewed.</p>
The employment period in case of fully renewing	Up to 5 years if certain conditions are fulfilled
Salary (basic salary)	<p>¥638,000 ~ ¥697,000/month</p> <p>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.</p>
Work Place	<p>Headquarters (Koganei-shi, Tokyo)</p>
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.