■ Job Information

Subject No.	2027R-10
Job Title	Fixed Term Researcher
Department	Advanced ICT Research Institute / Koganei Frontier Research Center, Green ICT Device Laboratory
Work Contents （Research theme)	Research and development of gallium oxide electronic devices
Detail of Work Contents	Research and development of fundamental technologies for electronic devices based on gallium oxide (Ga_2O_3), a novel wide-bandgap semiconductor, together with thermal management technologies to maximize their performance. Aiming to realize devices that operate stably at high frequencies in harsh environments such as under radiation and at high temperatures, the successful candidate will independently drive device design and fabrication process development, DC/RF characterization, and reliability evaluation. Duties cover the entire research cycle, from research planning, experiments, and data analysis to the dissemination of results through journal publications and conference presentations. 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	【Required】 Ph.D. in science or engineering (or expected to obtain one), or equivalent research ability Knowledge and experience in research and development of semiconductor electronic devices Strong motivation for research and the ability to conduct creative R&D in collaboration with colleagues 【Preferred】 Experience in R&D of high-frequency transistors (MOSFETs, HEMTs, etc.) Experience in R&D of radiation-hardened or high-temperature semiconductor devices Knowledge of device physics of wide-bandgap semiconductors (SiC, GaN, Ga_2O_3, etc.) Experience in semiconductor device fabrication processes in a cleanroom Experience in device simulation (TCAD, etc.) or thermal analysis Publication record in peer-reviewed international journals
Recruiting (Number of people)	2
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