

■ Job Information

Subject No.	2020R-60
Job Title	Fixed Term Researcher
Department	Advanced ICT Research Institute / Frontier Research Laboratory
Work Contents (Research theme)	Development of superconducting single-photon detector for infrared wavelength
Detail of Work Contents	<p>Superconducting nanowire single-photon detector (SSPD) has a potential to realize high detection efficiency for mid-infrared photon. In this research project, we develop an SSPD with high detection efficiency for mid-infrared wavelength by reducing the nanowire width or optimizing film property.</p> <p>The Article 15(2) of the Act on the activation of Science and Technology and Innovation will be applied to this work content.</p>
Application requirement	Expert knowledge of superconducting device fabrication (film deposition, lithography, etching), expert knowledge of measurement of electrical signal, high-frequency signal, optical signal), Expert knowledge of electronic circuit, quantum mechanics, solid-state physics
Recruiting (Number of people)	1
Period of Employment	hiring date ~ March 31,2021 N.B. Contract will not be renewed..
Salary (basic salary)	¥467,000 ~ ¥510,000/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	Advanced ICT Research Institute (Iwaoka, Nishi-ku, Kobe-shi, Hyogo)
Working frequency	5 days/week

Department name and work place including work contents (research theme) and detail of work contents might change according to organizational change, etc.