■ Job Information

Subject No.	2027R-36
Job Title	Fixed Term Researcher
Department	Cybersecurity Research Institute / Cybersecurity Laboratory
Work Contents （Research theme)	Research on Human-Centered Cybersecurity
Detail of Work Contents	We conduct research and development on cybersecurity technologies that address security and privacy threats arising from the interaction between people and information technologies, as well as security challenges associated with emerging information and communication technologies. Our research includes security technologies that take human cognitive and behavioral characteristics into account, as well as threat analysis and security evaluation technologies for emerging technologies. Specifically, our research covers usable security; countermeasures against threats that exploit or influence human cognition, psychology, and behavior; security and privacy related to brain information; and security analysis, evaluation, and countermeasure technologies for emerging technologies such as IoT devices, cloud computing, connected vehicles, and Beyond 5G (B5G), including their underlying hardware, firmware, software, and network components. Examples of research topics include: ・Usable security and security interaction based on human cognitive and behavioral characteristics ・Security technologies and environment design that enable users to behave securely in a natural and intuitive manner ・Analysis of and countermeasures against security threats that exploit or influence human cognition, psychology, and behavior, including social engineering ・Analysis of security and privacy threats related to brain information, biometric information, and related data, as well as technologies for protecting such information ・Security and privacy technologies for emerging forms of human-ICT interaction, including brain information and communication technologies ・Vulnerability analysis and security evaluation of emerging devices and systems, including IoT devices, sensor devices, and connected vehicles ・Analysis and evaluation of vulnerabilities, malicious functionality, backdoors, and other security issues in hardware such as FPGAs and firmware for embedded devices ・Security analysis and countermeasure technologies for emerging network and computing environments, including cloud computing and B5G ・Security analysis and evaluation across multiple layers, including hardware, firmware, software, and networks ・Identification and analysis of unknown vulnerabilities, emerging attack techniques, and other security challenges from an adversarial perspective, as well as technologies for mitigating such threats ・Identification of security and privacy challenges in emerging technologies and development of technologies for their analysis, evaluation, and mitigation The above topics are provided as examples and are not intended to limit the scope of research. We welcome a broad range of research that contributes to creating a safe and secure information and communication environment centered on people, ranging from security and privacy challenges arising from the interaction between human cognition and behavior and information technologies to those associated with emerging information and communication technologies and devices. Applicants are encouraged to review the research activities of the Cybersecurity Laboratory through our website and relevant publications when preparing their research proposals. Website: https://csl.nict.go.jp/ 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 Experience and Skills] ・Ph.D. or Master's degree (including those expected to obtain one) ・Research experience and achievements in cybersecurity or a related field ・English proficiency sufficient to conduct technical and academic literature reviews and write research papers in English ・Ability to communicate effectively and work collaboratively with researchers, engineers, and other colleagues within and outside the research group [Preferred Experience and Skills] ・A record of research publications or presentations at international conferences, in academic journals, or other relevant venues in cybersecurity or related fields ・Specialized knowledge, research experience, or hands-on experience in human-centered security areas such as usable security, security interaction, or human factors in cybersecurity ・Specialized knowledge, research experience, or hands-on experience in security and privacy related to brain information, biometric information, or human-ICT interaction, including brain information and communication technologies ・Specialized knowledge, research experience, or hands-on experience with emerging technologies such as IoT, cloud computing, connected vehicles, or Beyond 5G (B5G) ・Specialized knowledge, research experience, or hands-on experience with hardware such as integrated circuits, FPGAs, or sensor devices ・Specialized knowledge or hands-on experience in security analysis and evaluation of hardware, firmware, software, or networks ・Knowledge of or hands-on experience with security analysis and evaluation techniques such as reverse engineering, vulnerability analysis, or static and dynamic analysis ・Experience identifying new security or privacy challenges or developing novel analysis, evaluation, or mitigation methodologies ・Ability to read and write documents and communicate at a basic level in Japanese [Desired Candidate Profile] ・A person who is motivated to identify research challenges, formulate research topics, and conduct research and development proactively and independently ・A person who can work persistently toward ambitious research goals and tackle challenging research problems ・A person who is curious about unexplored areas and emerging technologies and is eager to acquire new knowledge and skills ・A person who embraces the spirit of "Sharing is Caring," is willing to share knowledge and research outcomes, values teamwork, and collaborates effectively with others
Recruiting (Number of people)	4
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)	¥612,000 ～ ¥649,000/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), or Cybersecurity Recurrent Evolution Center(Musashino-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