

NCS-Based KAIST Job Description

Recruitment area	Post-Doc/ Quantum information	Classification system	Parent category	Sub-category	Sub sub-category	Sub sub-sub-category
			20. Communication	01. Information Technologies	06. Information Security (Quantum Information Theory)	04. Cryptography
Mission	<ul style="list-style-type: none"> ○ Korea Advanced Institute of Science and Technology (KAIST) Act - Educating outstanding talent proficient in theory and practice as required in the fields of science and technology for industrial development - Carrying out the nation's mid- and long-term R&D, and basic and applied research to foster national competitiveness in science and technology - Providing comprehensive support to research conducted by other research centers and industries 					
KAIST's major businesses	<ul style="list-style-type: none"> ○ Education: Fostering creative talent, strengthening convergence education, nurturing global leaders in science and technology, strengthening human resource capacity ○ Research: Support for development of outstanding research projects, acquisition of specialized researchers, advancement of entrepreneurial culture, creation of high value-added intellectual property rights, promotion of technology transfer/commercialization, and development of large-scale, leading projects ○ Cooperation: Creating a working environment to be at par with global standards, and multifaceted cooperation for global leadership ○ Administration: Provision of administrative and technical service for international students/faculty (Support for operation of a "Korean-English bilingual campus") 					
Growth engines	<ul style="list-style-type: none"> ○ 3C Spirit : Challenge, Creativity, Caring ○ Vision: Global Value-Creative World-Leading University <ul style="list-style-type: none"> - Hub for Fostering Knowledge Creation and Global Convergence Talents - Center for the World-Leading New Knowledge and Technology) ○ Five innovation initiatives: Innovation in education, research, technology commercialization, globalization and future strategies ○ 3C Leadership: Change, Communication, Care 					
Duties and responsibilities	<ul style="list-style-type: none"> ○ Research in quantum communication protocols ○ Collaborations within the research group ○ Dissemination of the research outcomes in major conferences 					
Job performance details	<ul style="list-style-type: none"> ○ Quantum Protocols ○ Quantum Computing & Quantum SW ○ Co-supervision of undergraduate or graduate students 					
Knowledge required	<ul style="list-style-type: none"> ○ Basics of quantum information theory ○ Quantum algorithms and quantum communication 					
Required skills	<ul style="list-style-type: none"> ○ Matlab, Qiskit, Python ○ Optimization ○ Latex, PPT, and other presentation skills 					
Attitude while performing duties	<ul style="list-style-type: none"> ○ Cooperative and collaborative interactions within the research group ○ 40 working hours per week 					
Basic skills	<ul style="list-style-type: none"> ○ Communication in English ○ Constructive interactions within the group 					
Reference site	www.ncs.go.kr, www.kaist.ac.kr					