

NCS-Based KAIST Job Description

– Fixed-term (Postdoctoral Researcher)

Recruitment area	Postdoctoral Researcher	Classification system	Parent category	Sub-category	Sub sub-category	Sub sub-sub-category
			Category : Quantum optics Sub-category : Ultrafast quantum optics and ultrafast quantum spectroscopy			
Mission	<ul style="list-style-type: none"> ○ Korea Advanced Institute of Science and Technology (KAIST) Act <ul style="list-style-type: none"> - 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"> ○ 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 / Educational support 					
Job performance details	<ul style="list-style-type: none"> ○ To perform research on ultrafast quantum optics and ultrafast quantum spectroscopy ○ To develop new theoretical descriptions of novel ultrashort quantum states of light and their applications to study properties of highly entangled quantum systems ○ To help to supervise a PhD student working on the same project 					
Knowledge required	<ul style="list-style-type: none"> ○ Theoretical quantum optics physics knowledge ○ Broad general knowledge of analytical methods in quantum physics 					
Required skills	<ul style="list-style-type: none"> ○ Numerical simulations skills ○ Ability to present the research results in good English, including writing scientific papers 					

Attitude while performing duties	<ul style="list-style-type: none">○ Attitude for an analytical thinking and objective views○ Attitude for collaborating with the other group members
Basic skills	<ul style="list-style-type: none">○ Problem solving ability○ Ability to use mathematical methods
Reference site	www.ncs.go.kr, www.kaist.ac.kr