NCS-Based KAIST Job Description - Research Position

Recruitment area	Research position	Classification system	Parent category	Sub-category	Sub-sub-category	Sub-sub-sub-category
			19. Electrical and electronic engineering	03. Development of electronic instruments	10. Development of optical technology	01. Development of optical devices
Mission of KAIST	○ 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 business	○ 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 engine of KAIST	○ Vision: Global Value-Creative World-Leading University - 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	○ Development of frequency comb-based microwave photonic techniques for generating, distributing and characterizing microwaves in VLBI networks					
Job performance details	○ Development and stabilization of micro-combs ○ Microwave generation from micro-combs ○ Photonic sampling of microwave signals with frequency combs					
Required knowledge	○ Knowledge in optical frequency combs ○ Knowledge in microwave photonics					
Required skills	○ Research experience in optical frequency combs, optoelectronic oscillators or microwave photonics fields					
Attitudes	○ Objective judgment and logical analysis attitude ○ Active willingness to solve problems					
Basic skills	○ Problem-solving skills and professional ethics					
Reference site	www.ncs.go.kr, www.kaist.ac.kr					