

NCS-Based KAIST Job Description – Research position

Recruitment area	Research position	Classificati on system	Parent category	Sub-category	Sub sub-category	Sub sub-sub-category
			16. Material	02. Ceramic materials	01. Fine ceramic manufacturing	01. Electrical and electronic material manufacturing
			15. Mechanical	01. Mechanical design	01. Mechanical design	03. Structural Analysis Design
Mission	 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	 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	- Hub - Cent O Five in global	 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 the active materials for ionic soft actuator Mechanical application of 3D phononic topological insulator 					



Job	O Synthesis of the active materials for ionic soft actuator and analysis of electrochemical				
performance	properties				
details	O Design and construction of 3D phononic topological insulator				
Knowledge	Material Science, Electrochemical Engineering, Chemical Engineering				
required	O Acoustic, Elastics, Solid State Physics				
Required skills	Ability to synthesize and design for the active materials				
	Material characterizations with XRD, XPS, SEM, TEM				
	Advanced electrochemical analysis				
	O Control and measurement of the mechanical wave				
Attitude while	Creative and challenged, Logical				
performing	O Positive				
duties	○ High responsibility				
	O High mutual cooperation				
Basic skills	Communication, Flexibility, Work ethics, Interpersonal skill				
Reference site	www.ncs.go.kr, www.kaist.ac.kr				