

## NCS-Based KAIST Job Description – Research position

Recruitment area		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	<ul> <li>Korea Advanced Institute of Science and Technology (KAIST) Act</li> <li>Educating outstanding talent proficient in theory and practice as required in the fields of science and technology for industrial development</li> <li>Carrying out the nation's mid- and long-term R&amp;D, and basic and applied research to foster national competitiveness in science and technology</li> <li>Providing comprehensive support to research conducted by other research centers and industries</li> </ul>					
KAIST's major businesses	<ul> <li>Education: Fostering creative talent, strengthening convergence education, nurturing global leaders in science and technology, strengthening human resource capacity</li> <li>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</li> <li>Cooperation: Creating a working environment to be at par with global standards, and multifaceted cooperation for global leadership</li> <li>Administration: Provision of administrative and technical service for international students/ faculty (Support for operation of a "Korean-English bilingual campus")</li> </ul>					
Growth engines	<ul> <li>Vision: Global Value-Creative World-Leading University         <ul> <li>Hub for Fostering Knowledge Creation and Global Convergence Talents</li> <li>Center for the World-Leading New Knowledge and Technology)</li> </ul> </li> <li>Five innovation initiatives: Innovation in education, research, technology commercialization, globalization and future strategies</li> <li>3C Leadership: Change, Communication, Care</li> </ul>					
Duties and responsibilities	<ul> <li>Development of the active materials for ionic soft actuator</li> <li>Mechanical application of 3D phononic topological insulator</li> </ul>					



Job	○ 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	O Material Science, Electrochemical Engineering, Chemical Engineering				
required	O Acoustic, Elastics, Solid State Physics				
Required skills	O Ability to synthesize and design for the active materials				
	O Material characterizations with XRD, XPS, SEM, TEM				
	O Advanced electrochemical analysis				
	O Control and measurement of the mechanical wave				
Attitude while	$\bigcirc$ Creative and challenged, Logical				
	○ Positive				
performing	⊖ High responsibility				
duties	<ul> <li>High mutual cooperation</li> </ul>				
Basic skills	O Communication, Flexibility, Work ethics, Interpersonal skill				