

NCS-Based KAIST Job Description – Research position

			Parent category	Sub-category	Sub sub-category	Sub sub-sub-category
Recruitment area	Research	Classificati	16. Material	02. Ceramic materials	01. Fine ceramic manufacturing	01. Electrical and electronic material manufacturing
	peemen		17. Chemical·Bio	01. Chemical materials·chemic al fabrication	03. Development of chemical product	02. Development of chemical and novel materials
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 					
KAIST's major businesses	 industries 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") Vision: Global Value-Creative World-Leading University 					
Growth engines	 Fire innovation initiatives: Innovation in education, research, technology) Five innovation initiatives: Innovation in education, research, technology commercialization, globalization and future strategies 3C Leadership: Change, Communication, Care Development of the active materials for energy storage devices (Lithium metal battery and 					
Duties and responsibilities	Lithium sulfur battery) and its synthetic process O Development of electrode materials based on 2D transition metal carbides/nitrides (MXene) O Development of nano-structure based on carbon fiber					
Job performance details	 Synthesis of the active materials for lithium metal battery and lithium sulfur battery, and development of its synthetic process Analysis of battery performance using electrochemical method Approach for improvement of high oxidation stability in 2D transition metal carbide/nitrides (MXene) 					
Knowledge required	O Material Science, Electrochemical Engineering, Chemical Engineering, Mechanical Engineering					



Required skills	O Ability to synthesize and design for the active materials and its synthetic process					
	\bigcirc Material characterizations with XRD, XPS, SEM, TEM					
	○ Advanced electrochemical analysis					
Attitude while performing duties	\bigcirc Creative and challenged, Logical					
	○ Positive					
	○ High responsibility					
	\bigcirc High mutual cooperation					
Basic skills	O Communication, Flexibility, Work ethics, Interpersonal skill					
	🔿 Fluent Korean language, High vocational ethics					
Reference site	www.ncs.go.kr, www.kaist.ac.kr					