

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 Sub sub-sub-category Mission Classificati position 16. Material on system 02. Ceramic materials 01. Fine ceramic manufacturing 01. Electrical and electronic material manufacturing Mission \bigcirc Korea Advanced Institute of Science and Technology (KAIST) Act 03. Structural Analysis Design Mission \bigcirc Korea and technology for industrial development \bigcirc carrying out the nation's mid- industries \bigcirc research competitiveness in science and technology \bigcirc and basic and applied research to foster national competitiveness in science and technology \bigcirc Education: Fostering creative talent, strengthening convergence education, nurturing global leaders in science and technology, strengthening human resource capacity \bigcirc Research: Support for development of outstanding research projects, acquisition of specialized researchers, advancement of entrepreneurial culture, creation of high
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Mission 15. Mechanical design design Analysis Design Mission Correated Advanced Institute of Science and Technology (KAIST) Act - Educating outstanding talent proficient in theory and practice as required in the fields science and technology for industrial development Mission - 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 O Education: Fostering creative talent, strengthening convergence education, nurturing global leaders in science and technology, strengthening human resource capacity O Research: Support for development of outstanding research projects, acquisition of
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specialized researchers, advancement of entrepreneurial culture, creation of high
KAIST's major value-added intellectual property rights, promotion of technology
businesses 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 Hub for Fostering Knowledge Creation and Global Convergence Talents
Growth engines - 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 Development of the active materials for IPMC actuators
Duties and O Development of electrode materials and polymer electrolyte for energy storage devices
responsibilities O Design of triboelectric nanogenerator
 Mechanical application of 3D phononic topological insulator
 Synthesis of the active materials for ionic soft actuator and analysis of electrochemical
properties
Job O Synthesis and electrochemical measurement of electrode materials for energy storage
performance devices
details O Structural design and physical/chemical analysis of triboelectric nanogenerator
O Design and construction of 3D phononic topological insulator
Knowledge O Material Science, Electrochemical Engineering, Chemical Engineering
required O Electromagnetism, Dynamics
○ Acoustic, Elastics, Solid State Physics



Required skills	\bigcirc Ability to synthesize and design for the active materials
	\bigcirc Material characterizations with XRD, XPS, SEM, TEM
	 Advanced electrochemical analysis
	\bigcirc Signal processing, Numerical analysis, Mechanical design
	\bigcirc Control and measurement of the mechanical wave
Attitude while performing	\bigcirc Creative and challenged, Logical
	○ Positive
	○ High responsibility
duties	\bigcirc High mutual cooperation
Basic skills	 Communication, Flexibility, Work ethics, Interpersonal skill
Reference site	www.ncs.go.kr, www.kaist.ac.kr