

NCS-Based KAIST Job Description – Fixed term (Research position)

			Parent category	Sub-category	Sub sub-category	Sub sub-sub-category
Recruitment area	Research position	Classification system	Engineering	Materials Science and Engineering	Magnetic Materials	SpintronicsSpin waveMagnetic memory
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	 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 magnetic materials and devices for spin devices based on spin wave Characterization of the spintronic devices and associated modeling 					
Job performance details	 Preparation and characterization of magnetic materials (metal or insulator) Evaluation electrical and magnetic properties of spintronic devices Data analysis/modeling and paper publication 					
Knowledge required	Physics of magnetismFabrication and characterization of spintronic materials and devices					
Required skills	 Handling and maintenance for deposition systems Micro/nano-fabrication using lithography and characterization of electro/magnetic properties 					
Attitude while performing duties	Analytical thinking and objective viewsActive collaborationCompliance of research ethics					
Basic skills	Problem solving abilityCommunication ability					
Reference site	www.ncs.go.kr, www.kaist.ac.kr					