NCS-Based KAIST Job Description

Recruitment area	Research (Post-Doc)	Classification system	Parent category	Sub-category	Sub sub-category	Sub sub-sub-category
			IT	IT	AI	AI Modeling
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	○ Performing the M3I3 Global Singularity Project and Relevant Industrial Projects ○ Establishment of materials-processing-structure database ○ Application and evaluation of machine learning models					
Job performance details	○ Standardization of materials-processing-structure data and establishment of a standardized database ○ Application & evaluation of machine learning models, based on images showing the physical properties of materials					
Knowledge required	○ Machine learning ○ Comprehensive understanding of the physical manifestation of material properties – especially energy materials ○ Understanding of material image data processing					

Required skills	○ Modeling machine learning
	○ Standardization of machine learning data
	○ Image data processing
	○ Use of the atomic force microscopy (optional)
Attitude while performing duties	○ Taking on roles with initiative & minimizing trial-and-error via active feedback
	○ Prompt problem solving and decision making through active discussion with experts from relevant fields
Basic skills	○ Interpersonal skills, job ethics, problem-solving skills, communication skills, organizational skills, analytical skills, and resource management abilities
Reference site	www.ncs.go.kr, www.kaist.ac.kr