NCS-Based KAIST Job Description

			Parent category	Sub-category	Sub sub-category	Sub
Recruitment area	Research (Post-Doc)	Classification system	Tarent category	Sub category	Sub Sub cutegory	sub-sub-category
			IT	IT	AI	Al Modeling
			Chemistry	Chemical substance	Chemical R&D	Development of new chemical
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 Projects Establishment of materials-processing-structure database Application and evaluation of machine learning models Development of text mining model algorithms 					
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 					

	Machine learning				
Knowledge	Comprehensive understanding of the physical manifestation of material properties –				
required	especially energy materials				
	O 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	O Taking on roles with initiative & minimizing trial-and-error via active feedback				
performing	O Prompt problem solving and decision making through active discussion with experts				
duties	from relevant fields				
Basic skills	O 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				