NCS-Based KAIST Job Description - Research (Post-Doc)

Recruitment area	*Research (Post-Doc)	분류체계	대분류	중분류	소분류	세분류	
			19. Electrical·	03. Electronic	06. Semiconductor	04. Semiconductor	
			Engineering	device development	development	material	
	Korea Advanced Institute of Science and Technology (KAIST) Act						
Mission	- 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						
	Education: Fostering creative talent, strengthening convergence education,						
KAIST's	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						
major	property rights, promotion of technology transfer/commercialization, and development of						
business	large-scale, leading projects						
	Cooperation: Creating a working environment to be at par with global standards, and						
	multifaceted cooperation for global leadership						
	O Administration: Provision of administrative and technical service for international students/faculty (Support for operation of a "Korean-English bilingual campus")						
Growth	○ 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)						
engines	Five innovation initiatives: Innovation in education, research,						
J	technology commercialization, globalization and future strategies						
	 3C Leadership: Change, Communication, Care 						
Duties and	Next-generation semiconductors synthesis						
responsibility	High-performance optoelectronic devices fabrication						
Job	○ Synthesis of hybrid perovskite nanoparticles						
performance	O Fabrication of light emitting diodes, PVs, thermoelectric devices						
details	O Photophysical characterization of next-generation semiconductors						
Knowledge	O Chemistry, materials science, chemical engineering						
required	Electrical engineering						
Required skills	O Techniq	ue for synt	hesis of hybrid pe	rovsite nanoparticle	es		
	O Characterization of new materials (UV-Visible, Fluorimeter, Time Correlated Single Photon						
	Counting System, IR spectrometer, GC, Cyclic voltametry, etc.)						
	Analysis of devices						
Attitude while performing duties	O Attitude to explore new technical knowledge, active working attitude						
	O Responsible attitude to get the job done to the end						
	O Active participation in team-level research and task performance based on experience						
	O An attitude to harmonize and collaborate with members of the organization						
	Observant to principles, clean and fair handling of tasks						
Basic skills	communic	communication skills, mathematical skills, problem-solving skills, interpersonal skills,					
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	technical skills, organizational skills, understanding skills, professional ethics				
Reference	Construction of the construction of the control of				
site	www.ncs.go.kr, www.kaist.ac.kr				