

KAIST NCS Job Description

Da amitua ant	Dagagada		Parent category	Sub-category	Sub sub-category	Sub sub-sub-	
Recruitment	Research	분류체계	raient category	Sub-category		category	
area	(Post-Doc)						
	○ 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						
	O Education: Fostering creative talent, strengthening convergence education, nurturing global leader						
	in science and technology, strengthening human resource capacity						
	○ Research	h: Support for development of outstanding research projects, acquisition of specialized					
	researchers, advancement of entrepreneurial culture, creation of high value-ad						
KAIST's major	intellectual property rights, promotion of technology transfer/commercialization, and						
businesses	development of large-scale, leading projects						
	○ Cooperat	tion: Creating	g a working environ	ment to be at par v	vith global standards	s, 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")						



	○ Vision: Global Value-Creative World-Leading University						
	- Hub for Fostering Knowledge Creation and Global Convergence Talents						
Growth	- Center for the World-Leading New Knowledge and Technology)						
engines	O Five innovation initiatives: Innovation in education, research, technology commercialization,						
	globalization and future strategies						
	○ 3C Leadership: Change, Communication, Care						
Duties and							
responsibilitie	O Perform research and create knowledge as a post-doctoral researcher in the School of EE at KAIST						
S							
	* To be determined within the following topics, considering the applicant's research experience						
	and interest.						
Job	O Atomic layer deposition of ferroelectric and high-k dielectric together with electrical/reliability						
performance	characterization						
details	O Research on dynamic transient switching phenomena in hafnia ferroelectric systems						
uetalis	O Exploration of ferroelectric and anti-ferroelectric materials and functionalities						
	Research on ferroelectric transistor-based device/ion transport (for fundamental knowledge and						
	neuromorphic devices)						
Knowledge	Basic knowledge as a Ph.D. researcher in the field of ferroelectric materials and device in the EE						
required	background						
	* Experience with some of the techniques below is preferred, but not necessarily required.						
Required	O deposition and characterization of hafnia ferroelectric thin films						
skills	O Device characterization (DC and Transient Electrical Characterization)						
SKIIIS	O Device Integration						
	Modeling and Simulation						



Attitude					
while	Compliance with research ethics				
performing	Active attitude and willingness to challenge				
duties					
Basic skills	Candidates and holders of Ph.D. degrees in science and engineering				
Reference	www.ncs.go.kr, www.kaist.ac.kr, antonis.kaist.ac.kr				
site	www.ies.go.in, www.ies.ac.in, arterios.indistac.in				