

NCS-Based KAIST Job Description – Research

Recruitment	Research		대분류	중분류	소분류	세분류	
Area	Position	분류체계	모 집 분 야 : Res	•			
Aica	제무모집문아 : Indoor positioning and its application						
Founding Philosophy	○ 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						
	O 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 engines				-Leading University			
	- Hub for Fostering Knowledge Creation and Global Convergence Talents						
	- Center for the World-Leading New Knowledge and Technology)						
	O Five innovation initiatives: Innovation in education, research, technology commercialization,						
	globalization and future strategies						
	~		ange, Communica	ation, Care			
Duties and responsibilities		sign and f					
		sign valida					
		s signal co					
		_	construction and	communication			
	○ Researc	h support					
Job performance details	Design	and manu	facture of dedicat	ed indoor position	ing hardware		
			design and prod		_		
	O Design and implement Wi-Fi fingerprints collection algorithm through dedicated						
	hardware f	or indoor	positioning				
	○ Establis	hment of i	ndoor positioning	server and comm	unication with de	dicated hardware	
	Operati	on and de	monstration of in	door positioning se	ervices		
Required	O Bachelor's degree		in electrical engi	neering, computer	engineering or co	omputer science,	
knowledge	or equivalent experience						
	l						



	O Experience in making 3D design using 3D CAD					
	O Electric/electronic, sensor, electronic circuit, electronic control, electric/electronic/control,					
	electronic R&D, circuit, wireless, electric circuit					
	O Internal/external IP integration and network system construction experience					
Required skills	O Statistical analysis (R, MATLAB)					
	O Verilog, System Verilog, digital simulation and various verification tools					
	(Cadence/Synopsys/Mentor Graphics)					
	O Script languages such as shell, tcl, perl, Python, and makefile					
	O Configuration management system (Git, CVS, ClearCase, Perforce, etc.)					
	O Proficiency in basic languages to execute test plans such as UVM and C/C++					
Attitude while performing duties	Objective and logical attitude					
	O Responsible attitude to complete entrusted tasks					
	O Being cooperative with other members					
	○ Creative					
Basic skills	O Communication skills, problem-solving skills					
	O Interpersonal ability, professional ethics					
Reference site	www.ncs.go.kr, www.kaist.ac.kr					