

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

			대분류	중분류	소분류	세분류
Recruitment	*Docoarch			*01. Chemical substance	Chemical	Chemical
				and chemical process	Substances -	
	*Research	분류체계	*17	management	Quality assurance	substance
area	(Post-Doc)		Chemistary	*03Manufacture of		Pharmaceutical
				precision chemical	medicine	R&D
				manufacturing	fertilizer- pesticide	pesticide
	⊖ Korea Ao	dvanced Ins	titute of Scien	ce of Technology (KAIS	T) 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					
KAIST's	C Education : Fostering creative talent, Strengthening convergence education, nurturing global					
	leaders in science and technology, strengthening human resource capacity					
	O 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					
major	large-scale, leading projects					
businesses	$\bigcirc$ 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")					
	○ 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					
	O 3C Leadership: Change, Communication, Care					
duties and	○ Various simulations of biopolymers					
responsibiliti	<ul> <li>analysis of simulation data and paper writing</li> </ul>					
es	O Operation management and maintenance of simulation hardware					
Job	○ Simulation of MD and MC					
performance	<ul> <li>Source editing of simulation program</li> </ul>					
details	$\bigcirc$ GPFS (spectrum scale) and SGE based system operation for the entire lab					
Knowledge	🔿 statistical mechanics, quantum electronic structure theory					
required	O IBM whitepaper level understanding of GPFS management					
Required	$\bigcirc$ C and Fortran code writing					
skills	○ GPFS system management					
Attitude						
while	$\bigcirc$ 9+ hours/day and 5+ days/week work ethic with institute-allowed vacation limit					
performing	O Within 2- hour response time to HPC cluster system errors (remote access allowed)					
duties						
basic skills	O Post-graduate level statistical mechanics and quantum chemistry					
Dasic Skills	O Versitile computer management within Linux; Fluent commands on Fiber channel storage sys					
refernce site	www.ncs.go.kr, www.kaist.ac.kr					