

## NCS-Based KAIST Job Description

Recruitment area	*Research position	Classification system	Parent category	Sub-category	Sub sub-category	Sub sub-sub-category
			*02. Information and Communication	*01. Information technology	*02. Information technology development	*02. Applied SW Engineering *04.DB Engineering
Mission	<ul style="list-style-type: none"> <li>○ Korea Advanced Institute of Science and Technology (KAIST) Act               <ul style="list-style-type: none"> <li>- Educating outstanding talent proficient in theory and practice as required in the fields of science and technology for industrial development</li> <li>- Carrying out the nation's mid- and long-term R&amp;D, and basic and applied research to foster national competitiveness in science and technology</li> <li>- Providing comprehensive support to research conducted by other research centers and industries</li> </ul> </li> </ul>					
KAIST's major businesses	<ul style="list-style-type: none"> <li>○ Education: Fostering creative talent, strengthening convergence education, nurturing global leaders in science and technology, strengthening human resource capacity</li> <li>○ 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</li> <li>○ Cooperation: Creating a working environment to be at par with global standards, and multifaceted cooperation for global leadership</li> <li>○ Administration: Provision of administrative and technical service for international students/faculty (Support for operation of a "Korean-English bilingual campus")</li> </ul>					
Growth engines	<ul style="list-style-type: none"> <li>○ Vision: Global Value-Creative World-Leading University               <ul style="list-style-type: none"> <li>- Hub for Fostering Knowledge Creation and Global Convergence Talents</li> <li>- Center for the World-Leading New Knowledge and Technology)</li> </ul> </li> <li>○ Five innovation initiatives: Innovation in education, research, technology commercialization, globalization and future strategies</li> <li>○ 3C Leadership: Change, Communication, Care</li> </ul>					
Duties and responsibilities	<ul style="list-style-type: none"> <li>○ To design novel interactive systems to support learning in online environments.</li> <li>○ To analyze data generated from learning-at-scale platforms and design novel interactions with data-driven insights, where sources of data include text data (e.g., data from language learners' tutoring sessions), video data (e.g., platform logs when following along a video tutorial), and collaboration data (e.g., team based collaboration process logs and communication records).</li> <li>○ To design and run studies to evaluate the effectiveness of the techniques and systems developed, and to analyze the study data.</li> </ul>					
Job performance details	<ul style="list-style-type: none"> <li>○ Design new interfaces to support online education.</li> <li>○ Collect, analyze, and visualize data generated from online learning platforms and activities.</li> <li>○ Evaluate and analyze the effectiveness of the developed techniques.</li> </ul>					
Knowledge required	<ul style="list-style-type: none"> <li>○ Expert-level knowledge in human-computer interaction research methods</li> <li>○ Adequate knowledge in data processing, NLP, computer vision, and machine learning</li> </ul>					

Required skills	<ul style="list-style-type: none"><li>○ Frontend implementation (web)</li><li>○ Backend implementation (server, data pipeline, machine learning pipeline)</li></ul>
Attitude while performing duties	<ul style="list-style-type: none"><li>○ Approach for user-centered design, attitude for tackling challenging problems through collaboration, responsibility for developing ethical technology &amp; data security/privacy, effort for effective research communication</li></ul>
Basic skills	<ul style="list-style-type: none"><li>○ Openness to collaboration, research ethics, problem-solving skills, communication skills</li></ul>
Reference site	<a href="http://www.ncs.go.kr">www.ncs.go.kr</a> , <a href="http://www.kaist.ac.kr">www.kaist.ac.kr</a>