

## NCS-Based KAIST Job Description – Research position

Recruitment area	Research (Post-Doc)	Classification system	Parent category	Sub-category	Sub sub-category	Sub sub-sub-category
			23. Environment, Energy, Security	01. Industrial Environment	02. Atmosphere Management	04. Climate Change Adaptation
Mission	<ul style="list-style-type: none"> <li>○ Korea Advanced Institute of Science and Technology (KAIST) Act</li> <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>					
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> <li>○ Vision: Global Value-Creative World-Leading University</li> </ul>					
Growth engines	<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> <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>- Research and development</li> <li>- Co-advising of graduate students</li> </ul>					
Job performance details	<ul style="list-style-type: none"> <li>- High-resolution climate/hydrologic modeling</li> <li>- Dynamical downscaling and/or nudged simulation</li> <li>- Land-atmosphere interaction</li> <li>- Physics guided ML or hybrid climate/hydrologic modeling</li> <li>- Contributions to model intercomparison projects (e.g., LS3MIP)</li> </ul>					
Knowledge required	<ul style="list-style-type: none"> <li>- Ph.D. in a broad range of geoscience (e.g., atmospheric science, oceanography, hydrology,)</li> </ul>					

Required skills	<ul style="list-style-type: none"><li>- Expertise in statistical analysis and programming in at least one of Python, Jullia, and Fortran</li><li>- Strong oral and written communication skills in English</li></ul>
Attitude while performing duties	<ul style="list-style-type: none"><li><input type="radio"/> Compliance with research ethics</li><li><input type="radio"/> Creative approach to a subject and tenacious and in-depth research</li><li><input type="radio"/> Attitude to communicate and cooperate with other colleagues and PI in the laboratory</li></ul>
Basic skills	<ul style="list-style-type: none"><li><input type="radio"/> Problem-solving ability, communication ability, personal relationship, professional ethics</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>