NCS-Based KAIST Job Description
– Fixed-term (Postdoctoral Researcher)

<table>
<tr><td rowspan="2">Recruitment area</td><td rowspan="2">Postdoctoral Researcher</td><td rowspan="2">Classification</td><td>Parent category</td><td>Sub-category</td><td>Sub sub-category</td><td>Sub sub-sub-category</td></tr>
<tr><td colspan="4">Category : Condensed Matter Physics Experiments
Sub-category : 2D Materials-based device physics</td></tr>
<tr><td>Mission</td><td colspan="6">○ 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</td></tr>
<tr><td>KAIST's major businesses</td><td colspan="6">○ 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
○ 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")</td></tr>
<tr><td>Growth engines</td><td colspan="6">○ Vision: Global Value-Creative World-Leading University
- Hub for Fostering Knowledge Creation and Global Convergence Talents
- Center for the World-Leading New Knowledge and Technology)
○ Five innovation initiatives: Innovation in education, research, technology commercialization, globalization and future strategies
○ 3C Leadership: Change, Communication, Care</td></tr>
<tr><td>Duties and responsibilities</td><td colspan="6">○ Research / Educational support</td></tr>
<tr><td>Job performance details</td><td colspan="6">○ 2D Materials-based quantum optoelectronic devices
○ 2D Superlattice devices</td></tr>
<tr><td>Knowledge required</td><td colspan="6">○ Condensed Matter Physics
○ Semiconductor Physics</td></tr>
<tr><td>Required skills</td><td colspan="6">○ Applications and developments of novel scanning probe microscopy
○ 2D materials-based vertical device fabrications</td></tr>
<tr><td>Attitude while performing duties</td><td colspan="6">○ Attitude for an analytical thinking and objective views
○ Attitude for active collaboration</td></tr>
<tr><td>Basic skills</td><td colspan="6">○ Problem solving ability
○ Ability to use mathematical methods</td></tr>
<tr><td>References</td><td colspan="6">www.ncs.go.kr, www.kaist.ac.kr</td></tr>
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