**NCS-Based KAIST Job Description – ResearchPosition**

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| Recruitment area | Research position | Classification system | Parent category | Sub-category | Sub sub-category | Sub sub-sub-category |
| 15.Mechanical Engineering | 01.Mechanical Design | 02.Mechanical Design | 03.Structural Analysis Design |
| Mission | ○ 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  ○ 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”) | | | | | |
| Growth  engines | ○ 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 | | | | | |
| Duties and responsibilities | ○ A study on the slip boundary condition to develop natural simulation low friction  technology  ○ Investigate the efficiency of propeller in the flow to develop the natural simulation | | | | | |
| Job performance details | ○ A study on the slip boundary condition to develop natural simulation low friction  technology  ○ Investigate the efficiency of propeller in the flow to develop the natural simulation | | | | | |
| Knowledge required | ○ Knowledge about Direct Numerical Simulation (DNS)  ○ Knowledge about Fluid-Structure Interaction (FSI) | | | | | |
| Required skills | ○ Computational Fluid Analysis Technology  ○ Data statistics processing technology | | | | | |
| Attitude while performing duties | ○ Attitude abount objective judgment and logical analysis  ○ Willingness to solve problems | | | | | |
| Basic skills | ○ Problem solving ability  ○ Professional ethics | | | | | |
| Reference site | www.ncs.go.kr, www.kaist.ac.kr | | | | | |