NCS-Based KAIST Job Description – Research position

<table>
<tr><td rowspan="2">Recruitment area</td><td rowspan="2">Satellite/ observation instrument Structure and Design (outsourced researcher)</td><td rowspan="2">Classficati on system</td><td>Major category</td><td>Intermediate category</td><td>Minor category</td><td>Detailed category</td></tr>
<tr><td colspan="4">* This job description is derived from KAIST's internal job analysis and may differ somewhat from the Korea Employment Agency's NCS standard classification (in areas where NCS has not yet been developed).</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">○ Satellite System Integration
○ Interface Management for Satellite Structure and Design
○ Analysis, Design, and Development for Satellite Structure and Design
○ R&D Project Management and Support, Planning and Research</td></tr>
<tr><td>Job performance details</td><td colspan="6">○ Participation in national satellite development projects
○ Comprehensive execution of satellite system architecture tasks
○ Comprehensive execution of satellite system structure and design tasks
○ Development and execution of satellite assembly/testing technologies
○ Project management and planning management, technical documentation/report preparation, and other project execution-related tasks</td></tr>
<tr><td>Knowledge required</td><td colspan="6">○ Satellite/observation instrument System Engineering Field
- Understanding of satellite/observation instrument system engineering
- Understanding of satelliteobservation instrument development project management, development specifications, procedures, and development document creation and review
- Engineering knowledge of system design, dynamics, vibration, materials science, propulsion systems, and automatic control theory
○ Structural/Design Analysis, Design, and Application Knowledge</td></tr>
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	○ Comprehensive understanding of satellite system R&D, project execution, and management ○ Understanding of satellite development project management, development specifications, procedures, and related document creation and review ○ Knowledge for tasks related to R&D project meetings, evaluations, etc.
Required skills	○ Satellite/observation instrument System Engineering Field - System requirement analysis techniques, design program utilization skills, - Satellite mission design interpretation techniques, technical risk analysis and management techniques, system integration and verification techniques - Software utilization skills for test result analysis, software and hardware design skills ○ Structural/Design Analysis and Technology ○ Related information research, collection, and analysis capabilities ○ Design review document, proposal, report, and presentation material preparation skills ○ Resource allocation and schedule management skills based on task priority ○ Schedule management (MS Project, etc.) and office automation program utilization knowledge for task management
Attitude while performing duties	○ An attitude of completing assigned tasks thoroughly with a sense of responsibility and mission ○ An attitude of deriving new ideas by understanding and integrating knowledge and information from diverse fields ○ An attitude of solving complex problems with flexible thinking and sharp insight ○ An attitude of communicating and collaborating based on mutual understanding and respect ○ An attitude of overcoming difficulties and failures with a spirit of constant challenge ○ Adherence to attendance policies, research ethics, proactive attitude, and willingness to take on challenges ○ Objective, logical, and comprehensive analytical approach
Basic skills	○ Related fields such as aerospace, physics, astronomy and space science, mechanical engineering, control engineering, electrical engineering, electronics, information science, and telecommunications ○ Individuals with experience equivalent to a bachelor's or master's degree ○ Holders of a master's degree or higher
Reference site	www.ncs.go.kr, www.kaist.ac.kr