

NCS-Based KAIST Job Description – Research position

Recruitment area	Satellite/observation instrument Mission Analysis and Systems (outsourced researcher)	Classification system	Major category	Intermediate category	Minor category	Detailed category
			* 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).			
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			○ Payload System Integration ○ Payload Interface Management ○ Payload Design, Analysis, and Development ○ R&D Project Management and Support, Planning and Research			
Job performance details			○ Participation in national satellite/payload development projects ○ Execution of satellite/payload system integration tasks ○ Execution of satellite/payload system development tasks ○ Development and execution of satellite/payload assembly/testing technology and calibration ○ Project management and planning, technical documentation/reporting, and other project execution-related tasks			
Knowledge required			○ Satellite/Payload System Engineering Field - Understanding of satellite/payload system engineering - Understanding of satellite/payload 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			

	○ Comprehensive understanding of satellite/payload system R&D, project execution, and management ○ Understanding of satellite/payload development project management, development specifications, procedures, and related document preparation and review ○ Knowledge for tasks related to R&D project meetings, evaluations, etc.
Required skills	○ Satellite/Payload System Engineering Field - System requirements analysis techniques, design program utilization skills - Satellite/payload mission design analysis techniques, technical risk analysis and management techniques, system integration and verification techniques - Software utilization skills for test result analysis, software and hardware design skills ○ Ability to investigate, collect, and analyze relevant information ○ Ability to prepare design review materials, proposals, reports, and presentation materials ○ Ability to allocate resources and manage schedules based on task priority ○ Knowledge of schedule management (e.g., MS Project) and office automation software for task management ○ Ability to prepare design review materials, proposals, reports, and presentation materials
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
직업기초능력	○ Related fields such as aerospace, physics, astronomy and space science, mechanical engineering, control engineering, electrical engineering, electronics, information science, and telecommunications ○ Holders of a master's degree or higher
참고사이트	www.ncs.go.kr, www.kaist.ac.kr