

【Job Description for Research Scientist(Full-time) Recruitment for 2026 – 1】

Area of recruitment	ADC Synthesis and High-Efficiency Drug Delivery Technologies				
Academic major	Chemistry, Medicinal Chemistry, Pharmaceutical Sciences, Pharmacology, Biochemistry and related major	Job position	Research Scientist	Locations	Ochang
NCS category	Main Category	Category		Sub-Category	
	A separate analysis was performed to prepare the following contents as the NCS has not developed job categories corresponding to the job duties				
KBSI mission	<ul style="list-style-type: none">□ Conducting R&D on research facilities & equipment and analytical S&T, and joint research and support for promoting basic science, the foundation of the national science and technology development				
KBSI main functions	<ul style="list-style-type: none">□ Research support and joint research through the development and operation of cutting-edge large-scale research equipment□ Development of analytical technology and equipment through analytical science research□ In charge of general management of national research facilities and equipment□ Fostering research equipment experts and creative future talent				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<ul style="list-style-type: none">□ Conduct linker–payload optimization and SAR analysis using AI and computational chemistry–based molecular modeling (e.g., DFT, MD simulations).□ Design and synthesize bio-responsive linkers and perform structure–function characterization, including evaluation of linker stability and payload release kinetics.□ Develop site-specific conjugation technologies based on antibody and nanobody engineering, and contribute to the advancement of ADC manufacturing processes.□ Perform in vitro / in vivo drug delivery efficiency studies and develop AI-based predictive models for delivery performance.				
Capacity and ability	<ul style="list-style-type: none">□ Ability to perform AI-driven reaction prediction for chemical processes.□ Competency in computational chemistry and molecular modeling, including DFT, MD, and structural/reactivity analyses.□ Proficiency in CADD and in silico drug design workflows.				
Required knowledge	<ul style="list-style-type: none">□ Strong knowledge of medicinal chemistry, including ADC design, synthesis, and linker–payload development.□ Understanding of AI-based chemical reaction prediction, drug design methodologies, and molecular modeling techniques,□ Knowledge of bio-responsive linker design and synthesis.□ Understanding of linker stability assessment and payload release kinetics.				
Required skills	<ul style="list-style-type: none">□ Skills in organic synthesis of ADC linker–payloads, including the development of bio-responsive linkers (GSH-sensitive, acid-labile, enzyme-cleavable, etc.).□ Proficiency in bio-conjugation chemistry, including site-specific conjugation techniques.□ Skills in antibody engineering, including modification, conjugation-related optimization.				
Attitude in performing duties	<ul style="list-style-type: none">□ Proactive, responsible, and diligent attitude to solve a problem□ An exploratory attitude towards new knowledge and skills□ Positive and active communication attitude□ Efforts oriented towards teamwork				
Reference websites	<ul style="list-style-type: none">□ www.ncs.go.kr (except for the undeveloped jobs in NCS)- The above job description was prepared through a separate analysis.□ http://www.kbsi.re.kr (KBSI website)□ https://kbsi.recruiter.co.kr (KBSI application site)				

※ The above duties are the main duties that the applicant will perform upon employment after being selected as the successful applicant, and the applicant may perform duties other than the main job duties and the place of work may also be changed.

【Job Description for Research Scientist(Full-time) Recruitment for 2026 – 2】

Area of recruitment	Metabolomics Technologies for Biological and Disease Mechanism Studies and Biomarker Discovery				
Academic major	Chemistry, Biology, Pharmacy, and Biomedical sciences, and related major	Job position	Research Scientist	Locations	Seoul
NCS category	Main Category	Category		Sub-Category	
	A separate analysis was performed to prepare the following contents as the NCS has not developed job categories corresponding to the job duties				
KBSI mission	<ul style="list-style-type: none">□ Conducting R&D on research facilities & equipment and analytical S&T, and joint research and support for promoting basic science, the foundation of the national science and technology development				
KBSI main functions	<ul style="list-style-type: none">□ Research support and joint research through the development and operation of cutting-edge large-scale research equipment□ Development of analytical technology and equipment through analytical science research□ In charge of general management of national research facilities and equipment□ Fostering research equipment experts and creative future talent				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<ul style="list-style-type: none">□ Develop advanced metabolomics analytical technologies utilizing NMR spectroscopy and mass spectrometry.□ Conduct research focused on disease biomarker discovery, mechanistic elucidation, and identification of therapeutic targets.□ Manage, operate, and support shared use of advanced research instrumentation, providing analytical and technical assistance.□ Plan, coordinate, and execute domestic and international collaborative research initiatives and R&D programs.				
Capacity and ability	<ul style="list-style-type: none">□ Perform advanced metabolomics analysis and statistical analysis of metabolomics datasets.□ Conduct integrative multi-omics research incorporating metabolomics with other omics platforms.□ Design and strategically plan omics-related research projects and analytical workflows.□ Operate, maintain, and troubleshoot NMR and mass spectrometry systems.				
Required knowledge	<ul style="list-style-type: none">□ Comprehensive understanding of biological sample preparation and preprocessing techniques.□ Proficiency in interpreting and evaluating data generated from analytical instrumentation.□ In-depth knowledge of metabolites, their physiological functions, and underlying metabolic pathways.□ Ability to analyze metabolite datasets and apply findings to problem-solving in disease-focused research.				
Required skills	<ul style="list-style-type: none">□ Biochemical analysis techniques for characterizing metabolites.□ Functional assessment methodologies for evaluating metabolic activity and metabolite roles.□ Techniques for tracing and interpreting metabolic pathways.□ Competence in integrated multi-omics data analysis.				
Attitude in performing duties	<ul style="list-style-type: none">□ Proactive, responsible, and diligent attitude to solve a problem□ An exploratory attitude towards new knowledge and skills□ Positive and active communication attitude□ Efforts oriented towards teamwork				
Reference websites	<ul style="list-style-type: none">□ www.ncs.go.kr (except for the undeveloped jobs in NCS) - The above job description was prepared through a separate analysis.□ http://www.kbsi.re.kr (KBSI website)□ https://kbsi.recruiter.co.kr (KBSI application site)				

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【Job Description for Research Scientist(Full-time) Recruitment for 2026 – 3】

Area of recruitment	Biomedical AI & Multi-modal data analysis				
Academic major	natural sciences, medicine, engineering, etc	Job position	Senior Researcher	Locations	Seoul
NCS category	Main Category	Category		Sub-Category	
	A separate analysis was performed to prepare the following contents as the NCS has not developed job categories corresponding to the job duties				
KBSI mission	<ul style="list-style-type: none">□ Conducting R&D on research facilities & equipment and analytical S&T, and joint research and support for promoting basic science, the foundation of the national science and technology development				
KBSI main functions	<ul style="list-style-type: none">□ Research support and joint research through the development and operation of cutting-edge large-scale research equipment□ Development of analytical technology and equipment through analytical science research□ In charge of general management of national research facilities and equipment□ Fostering research equipment experts and creative future talent				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<ul style="list-style-type: none">□ Construction of Phenomics AI infra-structure and design of data pipelines□ Development of multi-modal data fusion and alignment technologies□ Development and advancement of disease prediction AI models□ Verification of diagnostic solutions and support for practical application/commercialization				
Capacity and ability	<ul style="list-style-type: none">□ Contruction of AI training data□ Deep learning model design□ Big data analysis and visualization□ R&D and software engineering				
Required knowledge	<ul style="list-style-type: none">□ Advanced theories in Artificial Intelligenece and Machine Learning□ Bioinformatics and Biomedical Science□ Statistics and Data Science□ GPU computing environments and MLOps				
Required skills	<ul style="list-style-type: none">□ Programming & Frameworks□ Data Processing: Data processing and analysis techniques□ System Management: System and infra-structure management				
Attitude in performing duties	<ul style="list-style-type: none">□ Proactive, responsible, and diligent attitude to solve a problem□ Open-minded attitude toward convergent research□ An exploratory attitude towards new knowledge and skills□ Positive and active communication attitude□ Efforts oriented towards teamwork				
Reference websites	<ul style="list-style-type: none">□ www.ncs.go.kr (except for the undeveloped jobs in NCS)<ul style="list-style-type: none">- The above job description was prepared through a separate analysis.□ http://www.kbsi.re.kr (KBSI website)□ https://kbsi.recruiter.co.kr (KBSI application site)				

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【Job Description for Research Scientist(Full-time) Recruitment for 2026 – 4】

Area of recruitment	Control / Beam Diganostics				
Academic major	Computer science, Control & Instrumentation, Accelerator engineering, and related major	Job position	Research Scientist	Locations	Ochang, Pohang
NCS category	Main Category	Category		Sub-Category	
	A separate analysis was performed to prepare the following contents as the NCS has not developed job categories corresponding to the job duties				
KBSI mission	<ul style="list-style-type: none">□ Conducting R&D on research facilities & equipment and analytical S&T, and joint research and support for promoting basic science, the foundation of the national science and technology development				
KBSI main functions	<ul style="list-style-type: none">□ Research support and joint research through the development and operation of cutting-edge large-scale research equipment□ Development of analytical technology and equipment through analytical science research□ In charge of general management of national research facilities and equipment□ Fostering research equipment experts and creative future talent				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<ul style="list-style-type: none">□ Design, building, and maintenance of Korea-4GSR control system□ Development, manufacturing, test, and maintenance of Korea-4GSR diagnostics□ Management of control/diagnostics				
Capacity and ability	<ul style="list-style-type: none">□ Accelerator control system design & Control programming□ Digital signal processing□ (Preferred) Accelerator beam dynamics (coursework or experience)□ (Preferred) EPICS-based accelerator control system development and operation experience□ (Preferred) Electron beam diagnostic device development and operation experience□ (Preferred) Electrical and control circuit design and analysis capability□ (Preferred) AI & machine learning related technologies				
Required knowledge	<ul style="list-style-type: none">□ Accelerator beam dynamics□ Programming language (machine/high-level languages)□ Understanding of major accelerator devices (electromagnets/MPS, RF system, vacuum system, beam diagnostics, etc.)□ Digital/analog signal precessing and analysis				
Required skills	<ul style="list-style-type: none">□ Accelerator Control Systems (EPICS-based Development & Integration)□ Beam Diagnostics Systems (BPM, Emittance, Bunch Length, Imaging)□ Data Analysis, Modeling, and Beam Dynamics Simulation□ Fast/Slow Feedback Systems and Beam Stability Control□ System Integration and Accelerator Commissioning Experience				
Attitude in performing duties	<ul style="list-style-type: none">□ Accurate work processing attitude and efficient work performance ability□ Proactive, responsible, and diligent attitude to solve a problem□ An exploratory attitude towards new knowledge and skills□ Positive and active communication attitude□ Efforts oriented towards teamwork				
Reference websites	<ul style="list-style-type: none">□ www.ncs.go.kr (except for the undeveloped jobs in NCS)<ul style="list-style-type: none">- The above job description was prepared through a separate analysis.□ http://www.kbsi.re.kr (KBSI website)□ https://kbsi.recruiter.co.kr (KBSI application site)				

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