

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

Area of recruitment	Disease research based on advanced bio-ultrastructural analysis technology using Bio-EM				
Academic major	Biology, Chemistry, Biochemistry, medicine, Pharmacology, 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">□ Analytical service and collaborative research supporting the field of bio-ultrastructural analysis using advanced Bio-EM analytical equipment□ Development of new analytical methods using Bio-EM equipment and achievement of outstanding results in analytical science□ Monitoring and maintenance of advanced research instruments□ Planning and execution of domestic and international collaborative research and R&D projects				
Capacity and ability	<ul style="list-style-type: none">□ Operation and maintenance of advanced Bio-EM analytical research equipments□ Analytical Research of the 2D & 3D ultrastructural characteristics of biological samples in the biomedical field□ Disease research based on bio-ultrastructural analysis, artificial intelligence, 3D implementation programs and cell structure analysis algorithm□ Research planning in bio & medical sciences utilizing bio-EM based analytical science				
Required knowledge	<ul style="list-style-type: none">□ Strong knowledge of operation and maintenance of electron beam-based bio-ultrastructural analysis research equipments including Bio-HVEM and Bio-TEM□ Expertise in bio-ultrastructural analysis research and disease research using Bio-EM analytical research equipment□ Knowledge of bio-3D structural interpretation using artificial intelligence and 3D structure implementation programs□ Knowledge of implementing 3D whole-cell tomography based on the combined use of Bio-EM and synchrotron radiation beamlines				
Required skills	<ul style="list-style-type: none">□ Advanced Bio-EM analytical research equipment operation & maintenance technology□ Sample preparation and Bio-EM imaging techniques for bio-ultrastructural analysis□ Analytical scientific interpretation and utilization technology of 2D & 3D ultrastructure of biological specimens□ Advanced software, AI, algorithm utilization technologies required for large-area 3D ultrastructural modeling of biological specimens				
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 based on mutual trust and cooperation				
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 – 2】

Area of recruitment	Mass spectrometry-based instrumentation development for chemical imaging and surface analysis				
Academic major	Chemistry, Physical Chemistry, Analytical Chemistry, and related major	Job position	Research Scientist	Locations	Daejeon
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">□ Development of a light-ion integrated chemical imaging analysis system□ Development of high-vacuum surface mass spectrometry and integrated analysis systems□ Development of three-dimensional compound analysis technologies and instrumentation based on imaging mass spectrometry□ Development of defect detection and root-cause analysis technologies for microelectronic devices based on compound separation and analytical techniques				
Capacity and ability	<ul style="list-style-type: none">□ Ability to develop and utilize imaging mass spectrometry analysis techniques□ Capability in integrated design and fabrication of mass spectrometry instrumentation, as well as development and simulation of charged particle (ion) beams□ Ability to develop and operate laser-based photoionization mass spectrometry systems□ Ability to plan and conduct R&D in integrated analytical science based on mass spectrometry□ Ability to prepare research papers, patents, and technical reports				
Required knowledge	<ul style="list-style-type: none">□ Expert knowledge of imaging mass spectrometry and mass spectrometry-based research instrumentation (e.g., ToFMS, ToF-SIMS, MALDI-MS, DESI-MS)□ Expert knowledge of charged particle (ion) beam technologies and the principles of mass spectrometry instrumentation□ Knowledge of integrated spectroscopy and analytical techniques including mass spectrometry□ Knowledge of high-sensitivity mass spectrometry techniques for trace-level chemical analysis				
Required skills	<ul style="list-style-type: none">□ Development, operation, and utilization of IMS and mass spectrometry instrumentation□ Development, operation, and analytical utilization of surface analysis instrumentation□ Charged particle (ion) beam simulation and operation of related software tools□ Physico-chemical integrated analysis techniques based on mass spectrometry instrumentation				
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 based on mutual trust and cooperation				
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	Solid-state NMR Spectroscopy · Secondary Battery				
Academic major	Chemistry, Physics, Chemical engineering, and related major	Job position	Research Scientist	Locations	Deajeon
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">□ Materials research based on solid-state NMR spectroscopy□ Analytical support using solid-state NMR spectroscopy□ Materials research and analytical support based on liquid-state NMR spectroscopy□ Development and characterization of lsecondary battery materials□ Conducting domestic and international collaborative research				
Capacity and ability	<ul style="list-style-type: none">□ Materials research based on solid-state NMR spectroscopy, including instrument operation and management□ Development and characterization of secondary battery materials□ Writing scientific papers and patent applications□ Execution and management of research projects				
Required knowledge	<ul style="list-style-type: none">□ Solid-state NMR spectroscopy□ Secondary battery□ Inorganic / polymer materials				
Required skills	<ul style="list-style-type: none">□ Solid-state NMR spectroscopy: fundamental theory and operation□ Characterization of secondary battery materials				
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 based on mutual trust and cooperation				
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 – 4】

Area of recruitment	Synchrotron accelerator development - Control / 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			
Key Responsibilities	<ul style="list-style-type: none">□ Design, implementation, and maintenance of Korea-4GSR control system (Control Systems Engineer)□ Development, manufacturing, performance test, and maintenance of Korea-4GSR beam diagnostic instruments (Beam Diagnostics Engineer)□ Overall coordination of control system / diagnostics operations (Field Supervisor for Control/Diagnostics each)				
Unit of Competency	<ul style="list-style-type: none">□ Designing a control system and programming (including machine language and high-level languages such as C++, Python)□ Digital signal processing□ (Preferred) Accelerator beam dynamics (course completion or relevant experience)□ (Preferred) Experience in development and operation of EPICS-based accelerator control systems□ (Preferred) Experience in development and operation of electron beam diagnostic instruments□ (Preferred) Ability to design and analyze electrical and control circuits□ (Preferred) Knowledge of AI and machine learning 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) (control)□ Beam Diagnostics Systems (BPM, Emittance, Bunch Length, Imaging) (diagnostics)□ 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">□ 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 based on mutual trust and cooperation				
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 – 5】

Area of recruitment	X-ray Photon Science (Beamline) - Nanoprobe				
Academic major	Physics, Material Science, 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">□ Research and development of hard x-ray multi-modal measurements technique□ Development of hard x-ray nanoprobe beamline and instrumentation (Korea-4GSR construction project)□ R&D program utilizing with hard x-ray measurements in synchrotron facility□ R&D for autonomous control and measurement system for the nanoprobe beamline				
Capacity and ability	<ul style="list-style-type: none">□ Ability and knowledge of hard x-ray scattering/imaging using synchrotron radiation□ Ability for development and operation of hard x-ray beamline and end-station□ Ability and knowledge to development autonomous measurement and analysis system□ Ability for collaborative R&D and international collaboration				
Required knowledge	<ul style="list-style-type: none">□ Hard x-ray beamline components and nano-focusing optics□ Experimental system and methodology of hard x-ray scattering/imaging technique□ Control, measurement, analysis architecture for hard x-ray scattering/imaging tool□ Sample manipulation, environment system and detector				
Required skills	<ul style="list-style-type: none">□ Data acquisition and analysis for hard x-ray measurements□ Device for sample transfer, positioning and temperature control system□ CCD detector, analyzer for hard x-ray measurements				
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 based on mutual trust and cooperation				
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 – 6】

Area of recruitment	X-ray Photon Science (Beamline) - Materials Structure Analysis				
Academic major	Physics, Material Science, 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">□ Research and development of diffraction structural analysis(HRPD) measurements□ Development of material structure analysis(HRPD) beamline and instrumentation (Korea-4GSR construction project)□ R&D program utilizing with hard x-ray measurements in synchrotron facility□ R&D for autonomous control and measurement system for the beamline				
Capacity and ability	<ul style="list-style-type: none">□ Ability and knowledge of x-ray diffraction(HRPD) using synchrotron radiation□ Ability for development and operation of hard x-ray beamline and end-station□ Ability and knowledge to development autonomous measurement and analysis system□ Ability for collaborative R&D and international collaboration				
Required knowledge	<ul style="list-style-type: none">□ Hard x-ray beamline components and instruments□ Experimental system and methodology of x-ray diffraction(HRPD) technique□ Control, measurement, analysis architecture for x-ray diffraction(HRPD) tool□ Sample manipulation, environment system and detector				
Required skills	<ul style="list-style-type: none">□ Data acquisition and analysis for hard x-ray measurements□ Device for sample transfer, positioning and temperature control system□ Diffractometer, detector for hard x-ray measurements				
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 based on mutual trust and cooperation				
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 – 7】

Area of recruitment	X-ray Photon Science (Beamline) -Data Science				
Academic major	Computer science, 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">□ Data measurement, transfer, analysis system for beamline construction project□ Control and measurement/analysis system development for experimental stations□ Design and development for data workflow stacks in beamline projects□ Collaborative research for related data science and development				
Capacity and ability	<ul style="list-style-type: none">□ Ability for developing scientific data and image analysis pipeline□ Ability for developing system and software managing large experimental data□ Ability for developing measurement/transfer system using x-ray detector/CCD				
Required knowledge	<ul style="list-style-type: none">□ Knowledge of scientific data/image analysis techniques/algorithms.□ Knowledge of large data management required in beamlines□ Knowledge of integrated data workflow required in large research infrastructure□ Knowledge of EPICS based control/measurement system in beamlines				
Required skills	<ul style="list-style-type: none">□ Development and management storage and computing system for large data□ Development of software stack for scientific data workflow□ Related software skills for the tasks (Python, C++, and etc)				
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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