

2026-1 Recruitment Announcement for Postdoctoral Researcher Position at the Korea Basic Science Institute

The Korea Basic Science Institute (KBSI), a government-funded research institute, is at the forefront of global convergence research across the full spectrum of basic science, including biotechnology, environmental science, materials science, and advanced equipment development, leveraging world-class large-scale research facilities. We invite creative and dynamic individuals to join us in pursuing these ambitious goals.

1. Recruitment Fields & Number of Openings

○ Postdoctoral researcher (total of 16 areas, total of 18 people)

No.	Department	Areas of training (Academic major)	Degree Require- ments	No. of openings	Location
1	NMR-Biophysics Research Unit	NMR-based Structural Analysis of Protein-Ligand Interactions (NMR, Materials Science and Engineering, Biochemistry, Physics, or related fields)	Ph.D	1	Ochang
2	NMR-Biophysics Research Unit	Integrative Structural Biology Study Using Advanced Large-scale Research Facilities (Structural Biology, Biochemistry, Biophysics, Life Sciences, or related fields)	Ph.D	1	Ochang
3	Xray-CryoEM Research Unit	Protein Structure Research and Technology Development Using Cryo-EM (Structural Biology, Biochemistry, Life Sciences, Biotechnology, Molecular Biology, Cryo-EM, or related fields)	Ph.D	1	Ochang
4	Bio-Imaging and Translational Research Unit	Investigation of Drug Mode of Action and Efficacy Based on Protein-Drug Interaction Analysis (Biochemistry, Biology, Pharmacy, Biotechnology, and Integrated Bio, etc.)	Ph.D	1	Ochang

No.	Department	Areas of training (Academic major)	Degree Require- ments	No. of openings	Location
5	Research Unit for Molecular Structure and AI	Development of Advanced Proteomic Technologies for Disease Target Discovery (Proteomics, Mass Spectrometry, Bioinformatics, Molecular Cell Biology, etc.)	Ph.D	1	Ochang
6	Biometabolic Research Unit	Analysis and Functional Characterization of Biological Metabolites (Chemistry, Biology, Pharmaceutical Sciences, Medicine, Integrative Biosciences, etc.)	Ph.D	1	Seoul
7	Optical Analysis Equipment Development Research Unit	Development of Scientific Instruments and Application Research (Physics, Electronics, Mechanics, Materials, etc.)	Ph.D	1	Daejeon
8	Optical Analysis Equipment Development Research Unit	Optical Analysis Equipment Development (Optics, Physics, Space Optics, and other related disciplines)	Ph.D	1	Deajeon
9	Materials Analysis Instrumentation Research Unit	Development of Analysis Technologies and Instrumentation for Random Computing Semiconductors (Physics, Materials, Electronics, Mechanics, etc.)	Ph.D	1	Daejeon
10	Research Equipment Commercialization Office	AI/Robot-Based Self-Driving Lab Platform Development (Mechanical Engineering, Robotics, Computer Science, Electrical and Electronics Engineering, Control and Instrumentation, Bioengineering, etc.)	Ph.D	1	Daejeon
11	Strategic Materials Research Unit	Research on the Development and Application of Polymer Materials for Next-Generation Secondary Batteries (Physics, Chemistry, Chemical Engineering, Materials Science and Engineering, Polymer Engineering, Energy Materials, Electrical Engineering, etc.)	Ph.D	1	Daejeon
12	Strategic Materials Research Unit	Development and Application of Next-Generation Batteries (Physics, Chemistry, Chemical Engineering, Materials Science and Engineering, Energy Materials, Electrical Engineering, etc.)	Ph.D	1	Daejeon

No.	Department	Areas of training (Academic major)	Degree Require- ments	No. of openings	Location
13	AI enhanced Electron Microscopy Research Unit	Synthesis, Characterization, and Electron Microscopy-Based Structural Analysis of Semiconductor Materials (Physics, Chemistry, Material Science and Engineering, Semiconductor Engineering, or related fields)	Ph.D	1	Daejeon
14	AI enhanced Electron Microscopy Research Unit	Advanced Transmission Electron Microscopy for Material Analysis and Data Processing (Materials Science and Engineering, Physics/Chemistry, Energy, Semiconductor, Electron Microscopy, or related fields)	Ph.D	1	Daejeon
15	AI enhanced Electron Microscopy Research Unit	Transmission Electron Microscopy (TEM) Analysis for Materials Research (Materials Science and Engineering, Physics/Chemistry, or related fields)	Ph.D	1	Daejeon
16	National Research Facilities & Equipment Center	Policy Planning and Business Operations related to National Research Facilities and Equipment (All fields in the Humanities, Social Sciences, Natural Sciences and Engineering, etc.)	Ph.D	3	Daejeon

2. Eligibility and Preferences

Stage	Detailed Information
Require- ments	<ul style="list-style-type: none"> Applicants must have completed or been exempted from mandatory military service and must have no restrictions on overseas travel (for Korean nationals only). Applicants must have no disqualifying issues related to personal identification. Applicants must have obtained their Ph.D. degree within the past 7 years or to be expected to obtain it within 3 months
Disqualifi- cations	<ul style="list-style-type: none"> Applicants who fall under any of the subparagraphs of Article 19 of the KBSI HR Regulations (Grounds for Disqualification) are ineligible to apply. These include, but are not limited to: <ul style="list-style-type: none"> Individuals who fall under any subparagraph of Article 33 (Grounds for Disqualification) of the State Public Officials Act Individuals whose civil rights (e.g., suffrage) have been suspended or deprived by law Individuals who have evaded mandatory military service in violation of the Military Service Act

Stage	Detailed Information
	<ul style="list-style-type: none"> - Individuals who have been disqualified from employment as a result of a physical examination - Individuals whose employment has been revoked due to illegal recruitment by a public institution ◦ Individuals subject to employment restrictions under Article 82 of the Act on the Prevention of Corruption and the Establishment and Management of the Anti-Corruption and Civil Rights Commission
Preferential Treatments (Korean nationals only)	<ul style="list-style-type: none"> ◦ In accordance with relevant laws and internal regulations, eligible veterans and individuals with disabilities will receive an additional 5% of the full score at each stage of the selection process. - However, individuals falling under Article 29(1)(1), (2), and (4) of the Act on the Honorable Treatment of and Support for Persons of Distinguished Service to the State will receive an additional 10% of the full score. ※ If an applicant is eligible for multiple types of preferential treatment, only the highest applicable additional score will be applied (no cumulative benefit). ※ The number of applicants who are hired through veterans' preferential points may not exceed 30% of the total number of selected candidates. However, if the number of applicants is equal to or fewer than the number of available positions, evaluation will be conducted based on the total score, including the additional points (in accordance with Article 31(3) of the same Act)

3. How to Apply

- How to Apply: Online application via KBSI Recruitment website (URL : <https://kbsi.fairy.im>)

※ In-person and postal submissions will not be accepted

- Application Period

From April 2, 2026 (Thu) to April 17, 2026 (Fri), 16:00 PM (KST)

Please note that applications will not be accepted after the deadline.

4. Recruitment Process

Stage	Detailed Information
Eligibility Screening of Applications	<ul style="list-style-type: none"> ◦ Compliance with the 「Blind hiring rules」 and eligibility review * Applicants who fail to meet the eligibility requirements, submit incomplete or insincere applications, or violate the 「Blind hiring rules」 or the blind review guidelines for research achievements will be deemed ineligible and disqualified from the document screening stage. <div style="border: 1px dotted black; padding: 5px;"> <p>{Eligibility Disqualification Criteria}</p> <ul style="list-style-type: none"> ○ Individuals who do not meet the degree requirements for the position they are applying for </div>

Stage	Detailed Information
	<ul style="list-style-type: none"> - For example, applicants who indicate “coursework completed,” “currently enrolled,” or “on leave of absence” as their highest level of education in the application form ※ Even if an applicant passes the document screening despite omitting or misrepresenting the above information—whether intentionally or negligently—if such discrepancies are later discovered through supporting documents, their selection or employment offer may be revoked.
Document Screening	<ul style="list-style-type: none"> ◦ Evaluation of the applicants’ professional competencies required for the position, based on the submitted application form - Evaluation criteria: Fit with the applied field (40), Expertise relevant to job responsibilities (40), Growth potential (20) - Pass Criteria: Applicants who score an average of 80 points or higher (based on the total scores averaged across all evaluators) will be ranked, and the top scorers will be selected. - Number of successful applicants: Up to three times the number of positions available ※ Information such as the name of the degree-granting institution, corresponding and co-authors of publications, originating laboratory and supervising professor, and names of previous employers may be collected and reviewed to verify applicants’ job suitability and work capability in the relevant recruitment field, in accordance with the “Guidelines for Blind Hiring in Public Institutions” issued by the Ministry of Science and ICT. ※ However, if the number of applicants eligible for document screening in each application field (based on Application Eligibility Screening) is less than or equal to the number of candidates to be selected in the document screening stage, all eligible applicants will be deemed to have passed the document screening. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>[Blind Hiring Violation Criteria for Document Screening]</p> <ol style="list-style-type: none"> 1) If an applicant directly or indirectly discloses their gender, age, or family relationships in their personal statement, competency statement, or file names. <ul style="list-style-type: none"> - Example: phrases such as “born as the eldest daughter,” or “raised under strict parents working in the public sector,” etc. 2) Any other cases where members of the screening committee determine that the applicant has intentionally disclosed personal information. </div>
Online Personality Test	<ul style="list-style-type: none"> ◦ Personality Test for Applicants Who Pass the Document Screening ※ The test will be conducted online. Applicants who do not take the test will be disqualified. The test results will be used as supplementary materials during the interview stage. * This schedule is subject to change depending on organizational needs.
Interview Screening	<ul style="list-style-type: none"> ◦ Presentation and Personal Interview: Presentation of research achievements and future research plans as a postdoctoral researcher, followed by Q&A session. * Applicants who violate the blind hiring rules during presentation (including presentation materials) or personality interviews, will be disqualified. - Method: Individual interview - Duration: Approximately 10 minutes for presentation, followed by about 15 minutes of Q&A. - Evaluation Criteria: Attitude(20), Critical Thinking(20), Presentation Skills(20), Future Potential(20), Knowledge(20)

Stage	Detailed Information
	<ul style="list-style-type: none"> ◦ Pass Criteria: Applicants who score an average of 80 points or higher (based on the total scores averaged across all evaluators) will be ranked, and the top scorers will be selected. ◦ Number of successful applicants: Up to the number of positions available <div style="border: 1px dotted black; padding: 5px; margin-top: 10px;"> <p>{Blind Hiring Violation Criteria for Interview Screening}</p> <p>※ Applicants will be disqualified if they directly or indirectly disclose personal information (such as their gender, age, or family relationships) unrelated to job performance during the interview, despite being clearly instructed in advance not to do so</p> </div>

<Compliance with the Government Blind Hiring Guidelines>

- In accordance with the “Blind Hiring Guidelines for Public Institutions” (Ministry of Employment and Labor, November 3, 2022), the recruitment process is designed to ensure equal opportunities and fair competition based solely on merit and ability.
- Discriminatory factors that may cause bias in application forms or interviews—such as gender, age, place of origin, family relationships, physical conditions, academic background, and property status—are excluded from consideration. (However, physical conditions or academic background may be considered if they are deemed essential for performing job duties.)
- Research institutes dedicated to research and development may separately define the scope of information required for job performance. In such cases, information recognized by the competent ministry may be requested in the application form, asked during interviews, or provided to interviewers.

5. Recruitment Schedule (Tentative)

Recruitment Process	Period
Recruitment Announcement & Application Submission	From April 2 (Thu) to April 17 (Fri), 2026, 16:00 PM (KST)
Eligibility Screening of Applications	April 20 (Mon) to April 27 (Mon)
Document Screening	May 6 (Wed) to May 11 (Mon)
Announcement of Document Screening Results	May 14 (Thu)
Submission of Presentation Materials for Interview Screening	May 14 (Thu) to May 19 (Tue)
Online Personality Test	May 14 (Thu) to May 19 (Tue)
Interview Screening	May 26 (Tue) to June 2 (Tue)
Announcement of Final Interview Results	June 9 (Tue)
Expected Appointment Date	June - July

※ The above schedule is subject to change depending on the KBSI circumstances

6. Required Documents

Stage	Detailed information
Document Screening	<ul style="list-style-type: none"> ◦ Application materials (including application form, self-introduction letter, and experience/career statements)
Interview Screening	<ul style="list-style-type: none"> ◦ Presentation materials on research/work achievements and future plans
Documents to Bring on Interview Day	<ul style="list-style-type: none"> ◦ Graduation certificates and transcripts for all completed undergraduate and graduate programs <ul style="list-style-type: none"> ※ Apostille verification required for foreign degrees ◦ Employment Certificates (only for periods listed in the application form) ◦ Certificate of Military Service (except for females, including those exempted) ◦ Certificates of employment support eligibility and disability(if applicable) ◦ Identification Certificate (Detailed) (issued by the Supreme Court of Korea)
Documents Required Before Appointment	<ul style="list-style-type: none"> ◦ Employment contract ◦ Resident register ◦ Security pledge for new employees ◦ Consent to collection, use, and provision of personal information ◦ Pledge regarding disqualification from employment ◦ Copies of certificates/licenses (only those listed in the application form) ◦ Physical examination report for employment or equivalent health examination document ◦ Other documents required for appointment

※ In accordance with Article 11, Paragraph 1 of the Fair Hiring Procedure Act, applicants may request the return of original documents submitted during the recruitment process (excluding those submitted via the online recruitment system or email, or those submitted voluntarily without being requested). Such requests must be made within 15 days from the date of the final decision on hiring, and the documents will be returned after verifying the applicant's identity.

Please note that documents will be destroyed after the request period has expired. (Applicants may be responsible for any costs associated with the return. For more details on the return process, please refer to the notice on the recruitment website.)

7. Employment Conditions

Category	Detailed Information
Type of Employment	<ul style="list-style-type: none"> ◦ Fixed-term Contract (Position: Postdoctoral Researcher)
Working Hours	<ul style="list-style-type: none"> ◦ Five days per week (Flexible work arrangements and other working conditions are applied equally to regular employees)
Contract Terms	<ul style="list-style-type: none"> ◦ One-year contracts offered within the eligibility criteria for postdoctoral researchers; renewable annually based on performance evaluations and project needs. KBSI operates a project-based tenure system.

	<ul style="list-style-type: none"> - The contract period may be shortened or terminated due to the conclusion, modification, or budgetary changes of the research project. - Non-renewal may occur based on the results of annual performance evaluations.
Salary Level	<ul style="list-style-type: none"> ◦ Determined in accordance with KBSI's internal regulations (including social insurance benefits)
Other Information	<ul style="list-style-type: none"> ◦ Dormitory available at Daedeok Headquarters (Daejeon) and Ochang Center ※ This benefit is only available to employees residing outside the local area. ◦ Commuter shuttle buses available between Daejeon and Ochang ◦ Work location and department may be adjusted based on KBSI's needs.

8. Other Important Information

- Multiple applications among Government-funded Research Institutes are permitted.
- Duplicate applications are not allowed across different recruitment fields (by serial number) or concurrent KBSI recruitment announcements.
- Applicants are solely responsible for any disadvantages caused by errors or omissions in their applications. If there are significant discrepancies between the application and the submitted documents, or if any information is found to be false, the employment offer may be revoked. (Final candidates may be required to submit additional employment-related documents.)
- Failure to comply with blind hiring requirements during the recruitment process will result in disqualification.
 - Applicants must not directly or indirectly disclose personally identifiable information, such as their gender, family relationships, etc., in the application form, during interviews, or in presentation materials.
- Submitted documents will not be used for any purpose other than recruitment, and other recruitment-related matters will follow KBSI regulations.
 - ※ In accordance with Article 11, Paragraph 1 of the 「Fair Hiring Procedure Act」, if an applicant requests the return of their application documents, the institution will return them after verifying the applicant's identity. (For details, please refer to the notice on the recruitment website.)
- In the event of a tie, the following measures will be taken in accordance with institutional regulations.

- If a tie results in exceeding the number of candidates to be selected in the document screening stage, all tied candidates will be accepted.
- In the case of a tie during the interview stage, the final selection will be determined based on the following priority order. (1. National merit recipients and eligible veterans, 2. Individuals with disabilities, 3. Candidates with the highest total scores across all evaluation criteria)
- In each recruitment field, if the final selected candidate's offer is revoked, or if the candidate declines or is unable to assume the position, or if the selected candidate resigns within three (3) months from the date of appointment, the next highest-scoring candidate may be selected. (Only applicable if such candidate has been designated in advance as a reserve candidate.)
- If no qualified candidates are identified during the recruitment process for a given field, KBSI may decide not to make an appointment.
- Failure to participate in any stage of the recruitment process or to arrive on time for the interview may result in disqualification.
- Upon appointment, the job title will be assigned as announced in the recruitment notice. Career experience will be recognized in accordance with KBSI's internal regulations.
 - ※ Please note that any experience not listed in the application form will not be considered when calculating career experience.
- Even after the announcement of successful candidates, if it is confirmed that an applicant does not meet the eligibility criteria or required selection scores, or if disqualifying issues arise from background checks or pre-employment physical examinations, the offer of employment may be revoked.
- The employment may be canceled if the applicant has passed the recruitment process as a result of fraudulent acts such as improper solicitation, pressure on the employer, or provision of financial benefits by the applicant or a third person who has a close relationship with the applicant. Additionally, the applicant may be disqualified from applying for the next five years.
- The duties listed in the job description are the primary responsibilities upon employment. However, successful candidates may also be assigned additional tasks or have their work location changed, depending on organizational needs.

- For other inquiries, please submit your questions via the Q&A section on the recruitment website or contact the Recruitment Manager at the Human Resources Development Division via email.
- E-mail: you2326@kbsi.re.kr (HR Development Division, Recruitment Manager)

【2026-1 Recruitment for Postdoctoral Researcher Job Description – 1】

Area of recruitment	NMR-based Structural Analysis of Protein-Ligand Interactions				
Academic major	NMR, Materials Science and Engineering, Biochemistry, Physics, etc.	Job position	Postdoctoral researcher	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	<div><div></div> 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</div>				
KBSI main functions	<div><div></div> Research support and joint research through the development and operation of cutting-edge large-scale research equipment</div> <div><div></div> Development of analytical technology and equipment through analytical science research</div> <div><div></div> In charge of general management of national research facilities and equipment</div> <div><div></div> Fostering research equipment experts and creative future talent</div>				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<div><div></div> Development of NMR methodologies for probing protein-ligand interactions</div> <div><div></div> Structure-based drug design (SBDD)</div> <div><div></div> Research on protein and peptide design</div>				
Capacity and ability	<div><div></div> Ability to design and synthesize peptides</div> <div><div></div> Ability to conduct independent and convergence joint research</div> <div><div></div> Ability to interpret experimental results, write and share research articles/patents</div>				
Required knowledge	<div><div></div> peptide chemical synthesis</div> <div><div></div> protein expression</div>				
Required skills	<div><div></div> peptide chemical synthesis</div> <div><div></div> protein expression</div> <div><div></div> NMR data analysis technology</div>				
Attitude in performing duties	<div><div></div> Inquisitive attitude toward new knowledge and skills</div> <div><div></div> Integrated thinking skills for convergence research fields</div> <div><div></div> Creative/challenging/positive/proactive problem solving skills</div> <div><div></div> Good interpersonal relationship, efficient work ability, and responsible, diligent attitude</div>				
Reference websites	<div><div></div> www.ncs.go.kr (except for the undeveloped jobs in NCS)<div>- The above job description was prepared through a separate analysis.</div></div> <div><div></div> http://www.kbsi.re.kr (KBSI website)</div> <div><div></div> https://kbsi.recruiter.co.kr (KBSI application site)</div>				

※ 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.

【2026-1 Recruitment for Postdoctoral Researcher Job Description – 2】

Area of recruitment	NMR-based Structural Analysis of Protein-Ligand Interactions				
Academic major	Structural Biology, Biochemistry, Biophysics, Life Sciences, etc.	Job position	Postdoctoral researcher	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	<div><div></div> 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</div>				
KBSI main functions	<div><div></div> Research support and joint research through the development and operation of cutting-edge large-scale research equipment</div> <div><div></div> Development of analytical technology and equipment through analytical science research</div> <div><div></div> In charge of general management of national research facilities and equipment</div> <div><div></div> Fostering research equipment experts and creative future talent</div>				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<div><div></div> Structural biology experiments (X-ray, SAXS, Cryo-EM, NMR)</div> <div><div></div> Determination of protein structures and manuscript preparation</div> <div><div></div> Biophysical characterization of proteins</div>				
Capacity and ability	<div><div></div> Ability to perform protein purification and structural biology experiments</div> <div><div></div> Ability to calculate protein structures</div> <div><div></div> Ability to conduct independent and convergence joint research</div> <div><div></div> Ability to interpret experimental results, write and share research articles/patents</div>				
Required knowledge	<div><div></div> Basic and applied knowledge related to structural biology, biochemistry, and biophysics</div> <div><div></div> Knowledge in protein structure-based drug development</div>				
Required skills	<div><div></div> Operational skill for structural biology research equipment</div> <div><div></div> Data collection, processing, analysis techniques for determination of protein structure</div> <div><div></div> Software utilization skill for calculation of protein structure</div> <div><div></div> Protein purification and biochemical techniques</div>				
Attitude in performing duties	<div><div></div> Good interpersonal relationship, efficient work ability, and responsible, diligent attitude</div> <div><div></div> Inquisitive attitude toward new knowledge and skills in the field of structural biology, with an active communication approach.</div> <div><div></div> Integrated thinking skills for convergence research fields</div>				
Reference websites	<div><div></div> www.ncs.go.kr (except for the undeveloped jobs in NCS) - The above job description was prepared through a separate analysis.</div> <div><div></div> http://www.kbsi.re.kr (KBSI website)</div> <div><div></div> https://kbsi.recruiter.co.kr (KBSI application site)</div>				

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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 3】

Area of recruitment	Protein Structure Research and Technology Development Using Cryo-EM				
Academic major	Cryo-EM, Structural Biology, Biochemistry, Life Science, Biotechnology, Molecular Cell Biology, etc.	Job position	Postdoctoral researcher	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">□ Protein expression, purification, and quality validation□ Determination of 3D protein structures and related techniques□ Investigation of biological functions and mechanisms based on protein structures□ Structure-based protein design, disease mechanism analysis, and drug target identification□ Compilation, analysis, and reporting of experimental results				
Capacity and ability	<ul style="list-style-type: none">□ Expertise in protein sample preparation and purification□ Skilled in operating structural analysis instruments such as Cryo-TEM□ Competence in data processing, structural modeling and visualization□ Ability to interpret experimental data and solve problems effectively				
Required knowledge	<ul style="list-style-type: none">□ Theoretical knowledge in biochemistry and structural biology□ Conceptual knowledge of computational processing of raw data from structure-based techniques such as Cryo-EM				
Required skills	<ul style="list-style-type: none">□ Expertise in protein engineering: cloning, expression, purification, and quantification□ Cryo-EM: sample preparation, data acquisition, image processing, and 3D reconstruction/analysis□ Structure-function analysis, visualization, and scientific reporting				
Attitude in performing duties	<ul style="list-style-type: none">□ Inquisitive attitude toward new knowledge and skills□ Integrated thinking skills for convergence research fields□ Creative/challenging/positive/proactive problem solving skills□ Good interpersonal relationship, efficient work ability, and responsible, diligent attitude				
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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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 4】

Area of recruitment	Investigation of Drug Mode of Action and Efficacy Based on Protein-Drug Interaction Analysis				
Academic major	Biochemistry, Biology, Pharmacy, Biotechnology, and Integrated Bio, etc.	Job position	Postdoctoral researcher	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">□ Identifying drug Mode of Action (MOA) via protein-protein interaction and binding assays□ Evaluation of novel drug efficacy at the cellular level□ Development of emerging technologies through interdisciplinary convergence research (e.g., Nanobio convergence)				
Capacity and ability	<ul style="list-style-type: none">□ Expertise in analyzing cell and biological samples via advanced optical imaging techniques□ Ability to conduct both independent and interdisciplinary collaborative research□ Strong capabilities in analyzing research results and drafting papers and patents				
Required knowledge	<ul style="list-style-type: none">□ Expertise in Molecular/Cellular Biology, Biochemistry, and Interdisciplinary Sciences□ In-depth understanding of protein interactions and pharmacological drug targets				
Required skills	<ul style="list-style-type: none">□ Ability to operate confocal microscopy and perform drug efficacy evaluation experiments□ Skilled in cell culture, molecular work (gene cloning), and bioassays (including WB, IP, Migration, MTT, and Kinase assays)□ Demonstrated potential to conduct novel interdisciplinary research, specifically in the field of nanobio-fusion technology				
Attitude in performing duties	<ul style="list-style-type: none">□ Willingness to acquire new technologies and an open-minded research attitude with effective communication across internal and external research organizations□ Creative, challenging, positive, and proactive problem-solving skills, combined with a responsible and diligent work ethic□ Strong interpersonal skills and an efficient approach to task management□ Integrative thinking skills for multidisciplinary research fields				
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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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 5】

Area of recruitment	Development of Advanced Proteomic Technologies for Disease Target Discovery					
Academic major	Proteomics, Mass Spectrometry, Bioinformatics, Molecular Cell Biology, etc.		Job position	Postdoctoral researcher	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	□ 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	□ 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	□ Development of spatial proteomics technologies for biological tissue analysis □ Elucidation of disease mechanisms through proteomic analysis □ Identification of disease biomarkers through proteomic analysis □ Characterization of genes associated with liver disease and neurodegeneration					
Capacity and ability	□ Mass spectrometry-based proteomic analysis □ Bioinformatics for omics data analysis □ Biochemical analysis and imaging technologies for biomolecules □ Scientific paper writing					
Required knowledge	□ Comprehensive understanding of molecular cell biology and biochemistry □ Knowledge of mass spectrometry or proteomics □ Knowledge of biostatistics of bioinformatics					
Required skills	□ Research experience in biochemical analysis of biomolecules □ Research experience in mass spectrometry analysis □ Research experience in omics data analysis					
Attitude in performing duties	□ Proactive, responsible and sincere attitude to solve problems □ Inquisitive attitude toward new knowledge and skills □ Positive and active communication attitude					
Reference websites	□ 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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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 6】

Area of recruitment	Analysis and Functional Characterization of Biological Metabolites				
Academic major	Chemistry, Biology, Pharmaceutical Sciences, Medicine, Integrative Biosciences, etc.	Job position	Postdoctoral 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">□ Development of metabolite analysis technologies using advanced analytical instruments□ Identification and functional investigation of disease-specific biological metabolites□ Elucidation of disease-specific metabolic mechanisms				
Capacity and ability	<ul style="list-style-type: none">□ Research notebook documentation and management□ Seminar presentations and oral presentations in academic conferences□ Ability to read and write scientific papers in English				
Required knowledge	<ul style="list-style-type: none">□ Instrumental data analysis and interpretation skills□ Understanding of biological metabolite functions and metabolic mechanisms				
Required skills	<ul style="list-style-type: none">□ Biochemical analysis techniques for biological metabolites□ Functional analysis techniques for biological metabolites				
Attitude in performing duties	<ul style="list-style-type: none">□ Inquisitive attitude toward new knowledge and skills□ Integrated thinking skills for convergence research fields□ Creative/challenging/positive/proactive problem solving skills□ Good interpersonal relationship, efficient work ability, and responsible, diligent attitude				
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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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 7】

Area of recruitment	Development of Scientific Instruments and Application Research					
Academic major	Physics, Electronics, Mechanics, Materials, etc.		Job position	Postdoctoral researcher	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	□ 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	□ 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	□ Development of Scientific Instruments and Application Research - Development of optical measurement/imaging instrument - Thermal analysis research for semiconductors, nano, bio materials - Research paper, patent, technology transfer					
Capacity and ability	□ Conducting research and development project □ Writing research papers and patents					
Required knowledge	□ Knowledge related to optics or thermophysical properties and heat transfer					
Required skills	□ Technology related to optical equipment development or thermal properties and heat transfer measurement/analysis					
Attitude in performing duties	□ Proactive, responsible and sincere attitude to solve problems □ Inquisitive attitude toward new knowledge and skills					
Reference websites	□ 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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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 8】

Area of recruitment	Optical Analysis Equipment Development					
Academic major	Optics, Physics, Space Optics, or related disciplines		Job position	Postdoctoral researcher	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	□ 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	□ 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	□ Development of Ultrafast pump-probe thermophysical property measurement systems □ Development of optical imaging equipment based on spiral phase optical systems □ Geometric optics and wave optics simulation					
Capacity and ability	□ Proficiency in optical design software such as Zemax/Code V □ Proficiency in wave optics simulation software such as VirtualLab Fusion □ Proficiency in numerical analysis programs such as Matlab/Python					
Required knowledge	□ Expertise in geometric optics □ Expertise in diffraction, interference, and wave optics □ Expertise in optical design and optimization □ Knowledge of optical experiment design and configuration					
Required skills	□ Ability to utilize optical design programs based on geometric optics □ Ability to utilize simulations based on wave optics □ Capability in developing optical imaging system equipment □ Capability in designing, configuring, and performing optical experiments					
Attitude in performing duties	□ Proactive, responsible, and sincere attitude toward problem-solving □ Inquisitive attitude toward new knowledge and technology □ Positive and active communication skills □ Efforts oriented toward teamwork					
Reference websites	□ 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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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 9】

Area of recruitment	Development of Analysis Technologies and Instrumentation for Random Computing Semiconductors				
Academic major	Physics, Materials, Electronics, Mechanics, etc.	Job position	Postdoctoral researcher	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">□ Fabrication of semiconductor measurement systems□ Measurement and analysis of random computing semiconductors□ Project-related tasks (Writing research reports, etc.)				
Capacity and ability	<ul style="list-style-type: none">□ Communication skills with internal/external researchers□ Research project execution capability□ Self-directed task execution capability□ Writing reports, papers, and patents				
Required knowledge	<ul style="list-style-type: none">□ Thin-film and device research□ Cryogenics and vacuum systems□ Operating and managing measurement instrumentation□ Semiconductor experiments and data analysis				
Required skills	<ul style="list-style-type: none">□ Measurement system design and analysis technology□ 3D design technology for system development□ Semiconductor characteristic analysis technology				
Attitude in performing duties	<ul style="list-style-type: none">□ Sincere attitude□ Inquisitive attitude toward new knowledge and technology□ Proactive and responsible attitude to solve problems□ Positive and active communication attitude				
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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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 10】

Area of recruitment	AI/Robot-Based Self-Driving Lab Platform Development				
Academic major	Mechanical Engineering, Robotics, Computer Science, Electrical and Electronics Engineering, Control and Instrumentation, Bioengineering, etc.	Job position	Postdoctoral researcher	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	<div><div></div><div>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</div></div>				
KBSI main functions	<div><div></div><div>Research support and joint research through the development and operation of cutting-edge large-scale research equipment</div><div></div><div>Development of analytical technology and equipment through analytical science research</div><div></div><div>In charge of general management of national research facilities and equipment</div><div></div><div>Fostering research equipment experts and creative future talent</div></div>				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<div><div></div><div>Development of equipment orchestration software and LLM-based experiment design systems</div><div></div><div>Development of AI-based vision QC systems and exception handling/decision-making logic</div><div></div><div>Preprocessing system performance verification (PoC) and omics analysis-linked quality assessment</div></div>				
Capacity and ability	<div><div></div><div>Ability to design automation systems and integrate hardware/software</div><div></div><div>Ability to control robots/equipment and develop equipment orchestration software and LLM-based systems</div><div></div><div>Ability to perform AI/ML-based data analysis and model development</div><div></div><div>Ability to write research papers, file patents, and conduct independent/collaborative research</div></div>				
Required knowledge	<div><div></div><div>Knowledge of laboratory automation including automation systems, collaborative robots, motion control, and sensor integration</div><div></div><div>Knowledge of Python/C++ programming and equipment communication interface development</div><div></div><div>Knowledge of multi-omics (Genomics, Proteomics, Metabolomics) preprocessing and biodata analysis</div><div></div><div>Knowledge of AI/ML model development, computer vision, and large language model (LLM) application</div></div>				
Required skills	<div><div></div><div>Skills in operating and integrating automation equipment</div><div></div><div>Skills in programming-based equipment control and data pipeline construction (Python, C/C++, etc.)</div><div></div><div>Skills in AI/ML model design, training, and optimization</div></div>				
Attitude in performing duties	<div><div></div><div>Self-motivation to perform tasks</div><div></div><div>Active attitude toward collaboration for smooth joint research</div><div></div><div>Open-mindedness to acquire new knowledge and develop research topics</div></div>				
Reference websites	<div><div></div><div>www.ncs.go.kr (except for the undeveloped jobs in NCS)</div><div></div><div>- The above job description was prepared through a separate analysis.</div><div></div><div>http://www.kbsi.re.kr (KBSI website)</div><div></div><div>https://kbsi.recruiter.co.kr (KBSI application site)</div></div>				

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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 11】

Area of recruitment	Research on the Development and Application of Polymer Materials for Next-Generation Secondary Batteries				
Academic major	Physics, Chemistry, Chemical Engineering, Materials Science and Engineering, Polymer Engineering, Energy Materials, Electrical Engineering, etc.	Job position	Postdoctoral researcher	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	<div>□ 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</div>				
KBSI main functions	<div><div>□ Research support and joint research through the development and operation of cutting-edge large-scale research equipment</div><div>□ Development of analytical technology and equipment through analytical science research</div><div>□ In charge of general management of national research facilities and equipment</div><div>□ Fostering research equipment experts and creative future talent</div></div>				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<div><div>□ Development and application of polymer materials for next-generation secondary battery electrolytes</div><div>□ Synthesis of organic/inorganic composite nanomaterials and characterization of nanostructured materials</div><div>□ Performing domestic and international collaborative research</div></div>				
Capacity and ability	<div><div>□ Material development and property analysis, applications in next-generation batteries</div><div>□ Performing domestic and international collaborative research project</div><div>□ Writing papers and patents</div></div>				
Required knowledge	<div><div>□ Polymer, nanomaterials, energy convergence materials</div><div>□ Secondary battery</div><div>□ Analytical science</div></div>				
Required skills	<div><div>□ Synthesis of polymer materials and control of their physical properties</div><div>□ Analysis of material properties</div><div>□ Identification of energy storage mechanisms</div></div>				
Attitude in performing duties	<div><div>□ Proactive, responsible, and diligent attitude to solve a problem</div><div>□ An exploratory attitude towards new knowledge and skills</div><div>□ Positive and active communication attitude</div><div>□ Efforts oriented towards teamwork</div></div>				
Reference websites	<div><div>□ www.ncs.go.kr (except for the undeveloped jobs in NCS)</div><div>- The above job description was prepared through a separate analysis.</div><div>□ http://www.kbsi.re.kr (KBSI website)</div><div>□ https://kbsi.recruiter.co.kr (KBSI application site)</div></div>				

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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 12】

Area of recruitment	Development and Application of Next-Generation Batteries				
Academic major	Physics, Chemistry, Chemical Engineering, Materials Science and Engineering, Energy Materials, Electrical Engineering, etc.		Job position	Postdoctoral researcher	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	<div>□ 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</div>				
KBSI main functions	<div><div>□ Research support and joint research through the development and operation of cutting-edge large-scale research equipment</div><div>□ Development of analytical technology and equipment through analytical science research</div><div>□ In charge of general management of national research facilities and equipment</div><div>□ Fostering research equipment experts and creative future talent</div></div>				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<div><div>□ Development of electrode and electrolyte materials for next-generation secondary batteries and electrochemical characterization</div><div>□ Design, assembly, and application development of next-generation battery systems</div><div>□ Performing domestic and international collaborative research</div></div>				
Capacity and ability	<div><div>□ Material development and property analysis, analysis of electrochemical properties</div><div>□ Performing domestic and international collaborative research project</div><div>□ Writing papers and patents</div></div>				
Required knowledge	<div><div>□ Electrochemistry, secondary Batteries, energy Storage</div><div>□ Battery design and assembly</div><div>□ Nanomaterials and polymer materials</div></div>				
Required skills	<div><div>□ Synthesis technique of materials for secondary batteries</div><div>□ Assembly technique of secondary batteries</div><div>□ Electrochemical Analysis Technology</div></div>				
Attitude in performing duties	<div><div>□ Proactive, responsible, and diligent attitude to solve a problem</div><div>□ An exploratory attitude towards new knowledge and skills</div><div>□ Positive and active communication attitude</div><div>□ Efforts oriented towards teamwork</div></div>				
Reference websites	<div><div>□ www.ncs.go.kr (except for the undeveloped jobs in NCS)</div><div>- The above job description was prepared through a separate analysis.</div><div>□ http://www.kbsi.re.kr (KBSI website)</div><div>□ https://kbsi.recruiter.co.kr (KBSI application site)</div></div>				

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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 13】

Area of recruitment	Synthesis, Characterization, and Electron Microscopy-Based Structural Analysis of Semiconductor Materials				
Academic major	Physics, Chemistry, Material Science and Engineering, Semiconductor Engineering, or related fields	Job position	Postdoctoral researcher	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">□ Design and conduct experiments for the synthesis and property control of semiconductor materials□ Fabricate semiconductor devices and evaluate electrical properties to investigate material-device relationships□ Analyze microstructures, interfaces, and defects in semiconductor materials using electron microscopy□ Characterize structural and chemical properties using analytical techniques and publish research results				
Capacity and ability	<ul style="list-style-type: none">□ Ability to perform semiconductor material synthesis, device fabrication, and performance evaluation□ Ability to analyze structures and material properties using electron microscopy□ Ability to interpret integrated materials characterization data and establish structure-property relationships□ Ability to organize research outcomes, write scientific papers, and conduct collaborative research				
Required knowledge	<ul style="list-style-type: none">□ Understanding of the structural and physical/chemical properties of semiconductor materials.□ Knowledge of semiconductor device operation principles (e.g., FETs)□ Knowledge of materials characterization techniques such as XRD, XPS, Raman, and TEM□ Basic understanding of the applicability of electron microscopy for microstructural analysis				
Required skills	<ul style="list-style-type: none">□ Semiconductor nano-material synthesis and process control□ Semiconductor device fabrication and electrical characterization□ Microstructural analysis using electron microscopy□ Data organization, figure preparation, and scientific writing				
Attitude in performing duties	<ul style="list-style-type: none">□ Proactive and responsible approach to problem-solving.□ Explorative mindset towards new knowledge and technology.□ Positive, effective communication.□ Team-oriented collaboration.				
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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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 14】

Area of recruitment	Advanced Transmission Electron Microscopy for Material Analysis and Data Processing				
Academic major	Materials Science and Engineering, Physics/Chemistry, Energy, Semiconductor, Electron Microscopy, or related fields	Job position	Postdoctoral researcher	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	<div>□ 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</div>				
KBSI main functions	<div>□ Research support and joint research through the development and operation of cutting-edge large-scale research equipment</div> <div>□ Development of analytical technology and equipment through analytical science research</div> <div>□ In charge of general management of national research facilities and equipment</div> <div>□ Fostering research equipment experts and creative future talent</div>				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<div>□ Structural and chemical analysis of materials using TEM/STEM/EELS</div> <div>□ Optimization of data acquisition conditions for 4D-STEM and Mono-EELS</div> <div>□ Building electron microscopy data analysis pipelines via AI vibe coding</div> <div>□ Experimental design and data processing for semiconductor and energy materials</div>				
Capacity and ability	<div>□ Operation of advanced electron microscopy and experimental design</div> <div>□ 4D-STEM/EELS/EDX-based data interpretation and analysis skill development</div> <div>□ Ability to implement data analysis code rapidly using AI vibe coding</div> <div>□ Documentation of results and preparation of papers/reports</div>				
Required knowledge	<div>□ Theoretical and practical knowledge of TEM/STEM/EELS/4D-STEM techniques</div> <div>□ AI vibe coding methodology and fundamental Python analysis libraries</div> <div>□ Background knowledge in materials science, nanostructure analysis, and EM simulation</div>				
Required skills	<div>□ Optimization of 4D-STEM and Mono-EELS data acquisition conditions</div> <div>□ AI vibe coding-based data processing automation and analysis pipeline construction</div> <div>□ EELS Core-loss ELNES analysis and chemical bonding state interpretation</div>				
Attitude in performing duties	Proactive and responsible research execution <div>□ Active adoption of AI and other cutting-edge tools in research</div> <div>□ Positive, energetic research execution and emphasis on teamwork</div> Ability to independently plan, schedule, and execute assigned tasks such as experiments and data interpretation through self-directed time management				
Reference websites	<div>□ www.ncs.go.kr (except for the undeveloped jobs in NCS)</div> <div>- The above job description was prepared through a separate analysis.</div> <div>□ http://www.kbsi.re.kr (KBSI website)</div> <div>□ https://kbsi.recruiter.co.kr (KBSI application site)</div>				

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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 15】

Area of recruitment	Transmission Electron Microscopy (TEM) Analysis for Materials Research				
Academic major	Materials Science and Engineering, Physics/Chemistry, etc.	Job position	Postdoctoral researcher	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	□ 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	□ 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	□ Optimization of a monochromated double aberration-corrected transmission electron microscope □ Crystallographic analysis of materials □ Application of deep learning to EM raw data				
Capacity and ability	□ Proficiency in performing transmission electron microscopy (TEM) techniques □ Ability to conduct independent and collaborative interdisciplinary research □ Capability to interpret research results and prepare/share papers and patents				
Required knowledge	□ Crystallography in transmission electron microscopy □ Intermediate to advanced knowledge for materials research				
Required skills	□ Operational skills for transmission electron microscopes □ Software utilization skills for transmission electron microscopy analysis □ Data analysis skills for transmission electron microscopy				
Attitude in performing duties	□ Proactive and responsible research execution □ Active adoption of AI and other cutting-edge tools in research □ Positive, energetic research execution and emphasis on teamwork □ Ability to independently plan, schedule, and execute assigned tasks such as experiments and data interpretation through self-directed time management				
Reference websites	□ 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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【2026-1 Recruitment for Postdoctoral Researcher Job Description – 16】

Area of recruitment	Policy Planning and Business Operations related to National Research Facilities and Equipment				
Academic major	All fields in the humanities, social sciences, natural sciences and engineering, etc.	Job position	Postdoctoral researcher	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">□ Deliberation on the introduction of national research facilities and equipment□ Policy planning for national research facilities and equipment□ Business planning and operation of national research facilities and equipment				
Capacity and ability	<ul style="list-style-type: none">□ Policy and business planning□ Business operations related to national research facilities and equipment□ Writing business plans, papers, and reports				
Required knowledge	<ul style="list-style-type: none">□ Knowledge of planning, management, and operation of national R&D projects□ Knowledge of laws, regulations, standard guidelines, and systems related to national research facilities and equipment□ Understanding of the life cycle and management system of national research facilities and equipment				
Required skills	<ul style="list-style-type: none">□ National R&D project planning and report/research paper writing skills□ Information search skills related to national research facility equipment□ MS Excel and statistical data creation and analysis, data management skills				
Attitude in performing duties	<ul style="list-style-type: none">□ Proactive, responsible, and sincere attitude toward problem solving□ Inquisitive attitude toward new knowledge and skills□ Positive and proactive communication attitude□ A commitment to 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.