

2025–3 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 15 areas, total of 19 people)

No.	Department	Areas of training (Academic major)	Degree Requirements	No. of openings	Location
1	Ochang Institute of Biological and Environmental Science	Development of Non-clinical Efficacy Assessment Techniques for Cancer Immunotherapy and Gene Therapy (Immunology, Cell Biology, Biology, Biochemistry, Biotechnology, Medicine, or related fields)	Ph.D	1	Ochang
2	Digital Omics Research Center	Disease Biomarker Discovery Through Proteomics (Proteomics, Mass Spectrometry, Bioinformatics, Molecular Cell Biology, Biochemistry or related fields)	Ph.D	1	Ochang
3	Center for Bio-imaging & Translational Research	Spatial proteomics for Immunology (Immunology, Mass Cytometry, Molecular Cell Biology, Biochemistry or related fields)	Ph.D	1	Ochang
4	Center for Bio-imaging & Translational Research	Protein Structure Research and Technology Development Using Cryo-EM (Cryo-EM, Structural Biology, Biochemistry, Life Science, Biotechnology, Molecular Cell Biology or related fields)	Ph.D	1	Ochang
5	Biopharmaceutical Research Center	Protein Structure and Molecular Interactions (Biochemistry, Biophysics, Structural Biology or related fields)	Ph.D	2	Ochang

No.	Department	Areas of training (Academic major)	Degree Requirements	No. of openings	Location
6	Biopharmaceutical Research Center	Protein Data Bank, Programming, protein experiment (Computational science, protein science, biophysics, bioinformatics or related fields)	Ph.D	1	Ochang
7	Metropolitan Seoul Center	Development and Characterization of Secondary Battery Materials (Natural Science and engineering (chemistry, physics, chemical engineering, polymer engineering, materials engineering, energy materials, NMR spectroscopy, etc.))	Ph.D	1	Seoul
8	Honam regional center	Development of Disease Diagnosis and Treatment based on Imaging Analysis (Biology or related fields)	Ph.D	1	Gwangju
9	Center for Scientific Instrumentation	Development of Optical Instruments and Application Research (Physics, Electronics, Mechanics, Materials, etc)	Ph.D	1	Daejeon
10	Strategic Research Center for Smart Battery	Advanced Transmission Electron Microscopy for Material Analysis and Data Processing (Materials Science and Engineering, Materials Engineering, Energy and Semiconductor Engineering, Physics, Chemistry, Chemical Engineering, or Microscopy-related fields.)	Ph.D	1	Daejeon
11	Strategic Research Center for Smart Battery	Development of AI-based data analysis models and processing technologies (Artificial Intelligence, Information and Communication Engineering, Computer Engineering, Materials Science, or related interdisciplinary fields.)	Ph.D	1	Daejeon
12	Strategic Research Center for Smart Battery	Synthesis and Analysis of Battery Materials with Electron Microscopy-Based Structural Characterization (Materials Science and Engineering, Energy Engineering, Electrochemistry, Chemistry, Chemical Engineering or related fields)	Ph.D	1	Daejeon
13	Strategic Research Center for Smart Battery	Development and Application of Next-Generation Batteries (Physics, Chemistry, Chemical Engineering, Materials Science and Engineering, Energy Materials, Electrical Engineering or related fields)	Ph.D	2	Daejeon
14	Strategic Research Center for Smart Battery	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 or related fields)	Ph.D	1	Daejeon

No.	Department	Areas of training (Academic major)	Degree Requirements	No. of openings	Location
15	National Research Facilities & Equipment Center	Policy Planning and Business Operations related to National Research Facility Equipment (All fields in the humanities, social sciences, natural sciences and engineering)	Ph.D	3	Daejeon

2. Eligibility and Preferences

Stage	Detailed Information
Requirements	<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 5 years or to be expected to obtain it within 3 months
Disqualifications	<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 - 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. <ul style="list-style-type: none"> - 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.recruiter.co.kr>)

※ In-person and postal submissions will not be accepted

- Application Period

From July 22, 2025 (Tue) to August 5, 2025 (Tue), 10:00 AM (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 <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. </div>
Document Screening	<ul style="list-style-type: none"> ○ Evaluation of the applicants’ professional competencies required for the position, based on the submitted application form <ul style="list-style-type: none"> - 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.

Stage	Detailed Information
	<p>[Blind Hiring Violation Criteria for Document Screening]</p> <ol style="list-style-type: none"> 1) If an applicant directly or indirectly discloses their name, 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.
<p>Online Personality Test</p>	<ul style="list-style-type: none"> ◦ Personality Test for Applicants Who Pass the Document Screening (Approximately 40 Minutes) <ul style="list-style-type: none"> ※ 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.
<p>Interview Screening</p>	<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. <ul style="list-style-type: none"> * Applicants who violate the blind hiring rules during presentation (including presentation materials) or personality interviews, will be disqualified. <ul style="list-style-type: none"> - 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) ◦ 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 <p>[Blind Hiring Violation Criteria for Interview Screening]</p> <ul style="list-style-type: none"> ※ Applicants will be disqualified if they directly or indirectly disclose personal information (such as their name, gender, age, or family relationships) unrelated to job performance during the interview, despite being clearly instructed in advance not to do so <ul style="list-style-type: none"> - Example: “I am Gildong Hong, applying for field A.”

<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 July 22 (Tue) to August 5 (Tue), 2025, 10:00 AM (KST)
Eligibility Screening of Applications	August 6 (Wed) to August 14 (Thu)
Document Screening	August 21 (Thu) to August 29 (Fri)
Announcement of Document Screening Results	September 3 (Wed)
Submission of Presentation Materials for Interview Screening	September 3 (Wed) to September 8 (Mon)
Online Personality Test	September 3 (Wed) to September 8 (Mon)
Interview Screening	September 10 (Wed) to September 24 (Wed)
Announcement of Final Interview Results	September 26 (Fri)
Expected Appointment Date	October

※ 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 ◦ ※ 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	◦ Fixed-term Contract (Position: Postdoctoral Researcher)
Working Hours	◦ Five days per week (Flexible work arrangements and other working conditions are applied equally to regular employees)
Contract Terms	◦ 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. - 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	◦ Determined in accordance with KBSI's internal regulations (including social insurance benefits)
Other Information	◦ 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

- 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 name, 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)
- For each recruitment field, if a successful applicant's employment offer is revoked, or if the applicant declines or forfeits the appointment, the next highest-scoring candidate may be selected, provided that they have been designated 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: jakim@kbsi.re.kr (HR Development Division, Recruitment Manager)

【2025-3 Recruitment for Postdoctoral Researcher Job Description – 1】

Area of recruitment	Development of Non-clinical Efficacy Assessment Techniques for Cancer Immunotherapy and Gene Therapy				
Academic major	Immunology, Cell Biology, Biology, Biochemistry, Biotechnology, Medicine, or related fields	Job position	Postdoctoral researcher	Locations	Ochang
NCS category	Main Category	Category		Sub-Category	
KBSI mission	A separate analysis was performed to prepare the following contents as the NCS has not developed job categories corresponding to the job duties				
KBSI main functions	<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 □ Research support and joint research through the development and operation of cutting-edge large-scale research equipment □ Development of analytical technology and equipment through analytical science research □ In charge of general management of national research facilities and equipment □ Fostering research equipment experts and creative future talent 				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<ul style="list-style-type: none"> □ Develop Standard Operating Procedures (SOP) for non-clinical efficacy assessment of gene therapies using cellular and in vivo imaging technologies □ Perform optical imaging-based tissue and in vivo sampling and real-time analysis □ Develop techniques for non-clinical efficacy evaluation of various gene therapy modalities in cancer treatment 				
Capacity and ability	<ul style="list-style-type: none"> □ Expertise in cell/tissue/in vivo sampling and real-time analysis for optical imaging □ Experience in evaluating the anti-cancer efficacy and effectiveness using in vivo imaging technologies □ Ability to draft scientific papers and patents 				
Required knowledge	<ul style="list-style-type: none"> □ Experience in evaluating anti-cancer efficacy and effectiveness using in vivo imaging technologies □ Proficiency in optical imaging-based tissue and in vivo sampling and real-time analysis □ Ph.D. degree with experience in non-clinical efficacy evaluation of various gene therapies for cancer treatment 				
Required skills	<ul style="list-style-type: none"> □ Understanding of the composition and internal interactions within the cell-tissue microenvironment □ Specialized knowledge in immunology, biochemistry, biology, cell biology, biotechnology, medicine, or related fields □ Knowledge of in vivo imaging analysis techniques and non-clinical trials using animal models <ul style="list-style-type: none"> - Background knowledge in the introduction and mechanisms of action (MOA) of gene therapies in cellular and in vivo settings - Proficiency in various molecular and cellular biological experiments and analytical techniques at the cellular level 				
Attitude in performing duties	<ul style="list-style-type: none"> □ Proactive work attitude, analytical thinking, positive mindset, and willingness to communicate effectively □ Strong desire to acquire new technologies, openness to collaboration with internal and external research organizations □ Commitment to following standardized procedures and ensuring the reliability and validation of experimental results 				
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.

【2025-3 Recruitment for Postdoctoral Researcher Job Description – 2】

Area of recruitment	Disease Biomarker Discovery Through Proteomics				
Academic major	Proteomics, Mass Spectrometry, Bioinformatics, Molecular Cell Biology, Biochemistry or related fields	Job position	Postdoctoral researcher	Locations	Ochang
NCS category	Main Category	Category		Sub-Category	
NCS 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"> □ Elucidation of disease mechanisms through proteomics analysis □ Discovery of disease biomarkers through proteomics analysis □ Functional identification of genes associated with liver disease or neurodegeneration 				
Capacity and ability	<ul style="list-style-type: none"> □ Mass spectrometry-based proteomic analysis □ Omics data analysis □ Biochemical analysis and imaging technologies for biomolecules □ Scientific paper writing 				
Required knowledge	<ul style="list-style-type: none"> □ Comprehensive understanding of molecular cell biology and biochemistry □ Knowledge of mass spectrometry or proteomics □ Knowledge of biostatistics of bioinformatics 				
Required skills	<ul style="list-style-type: none"> □ Research experience in biochemical analysis of biomolecules □ Research experience in mass spectrometry analysis □ Research experience in omics data analysis 				
Attitude in performing duties	<ul style="list-style-type: none"> □ Proactive, responsible and sincere attitude to solve problems □ Inquisitive attitude toward new knowledge and skills □ 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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 3】

Area of recruitment	Spatial proteomics for Immunology				
Academic major	Immunology, Mass Cytometry, Molecular Cell Biology, Biochemistry or related fields	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"> □ Research on various diseases and disorders using mass cytometry (CyTOF) □ Research on various diseases and disorders using imaging mass cytometry (IMC) □ Spatial proteomics analysis □ Disease research based on disease animal models 				
Capacity and ability	<ul style="list-style-type: none"> □ Proficiency in operating and utilizing mass cytometry (CyTOF) equipment □ Ability to conduct independent and collaborative interdisciplinary research □ Competence in interpreting research results, writing papers/patents, and disseminating findings 				
Required knowledge	<ul style="list-style-type: none"> □ In-depth knowledge and analysis at the single-cell level, including cell functions, phenotypes, and the mechanisms of complex biological systems □ Intermediate and advanced-level knowledge for disease research 				
Required skills	<ul style="list-style-type: none"> □ Operation techniques for mass cytometry (CyTOF) □ Software proficiency for CyTOF data analysis □ Imaging data analysis techniques for imaging mass cytometry (IMC) 				
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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 4】

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 or related fields	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 production: including expression, purification, and analytical validation □ Cryo-EM based structural analysis: single particle analysis, functional interpretation, and mechanism studies □ Application of structural insights: protein design, disease mechanism analysis, and drug target identification 				
Capacity and ability	<ul style="list-style-type: none"> □ Proficiency in protein sample production 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) 				

※ 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.

【2025-3 Recruitment for Postdoctoral Researcher Job Description – 5】

Area of recruitment	Protein Structure and Molecular Interactions				
Academic major	Biochemistry, Biophysics, Structural Biology or related fields	Job position	Postdoctoral researcher	Locations	Ochang
NCS category	Main Category	Category		Sub-Category	
NCS 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 on protein structures and molecular interactions □ Study of protein structures and interactions using NMR, biophysics, or X-ray crystallography techniques □ Expression and purification of proteins, including specialized types (e.g., disulfide-bonded proteins) □ Capability to conduct computational biology research based on directly measured experimental data (preferred) 				
Capacity and ability	<ul style="list-style-type: none"> □ Communicating and delivering oral presentations at seminars and conferences □ Proficient in reading and writing scientific papers in English □ Analysis of experimental data using mathematical formulas (preferred) 				
Required knowledge	<ul style="list-style-type: none"> □ Understanding of protein or nucleic acid structures and their interactions □ Basic hands-on experience with protein expression and purification □ Preferred: Prior experience in protein NMR or computational biology research 				
Required skills	<ul style="list-style-type: none"> □ NMR analysis techniques for studying protein interactions and dynamics □ X-ray crystallography for 3D structural determination of proteins and complexes □ Biophysical techniques for studying protein structural characteristics and interactions □ Preference given to candidates experienced in at least one of the three analysis techniques 				
Attitude in performing duties	<ul style="list-style-type: none"> □ Proactive, responsible, and diligent approach to problem-solving □ Sincere curiosity and commitment to acquiring new knowledge and techniques □ Positive and active communication skills with a strong focus on teamwork □ Passion and dedication for scientific research and discover 				
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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 6】

Area of recruitment	Protein Data Bank, Programming, protein experiment				
Academic major	Computational science, protein science, biophysics, bioinformatics or related fields	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"> □ Establishment of Protein Data Bank Japan mirror site in Korea □ Protein experiments and using of related programs □ Development of program using PDB data 				
Capacity and ability	<ul style="list-style-type: none"> □ Background knowledge in computational and experimental protein science □ Preference for candidates with experience in conducting and analyzing experiments on proteins, such as NMR, CD, DSC, and ITC □ Proficiency in utilizing various databases related to proteins 				
Required knowledge	<ul style="list-style-type: none"> □ Computational science, bioinformatics □ Protein science, protein biophysics, structural biology 				
Required skills	<ul style="list-style-type: none"> □ Proficiency in utilizing programs for analyzing protein sequences and structures □ Programming for analyzing protein sequences and structures □ Skills in performing and analyzing molecular dynamics (MD) simulations □ Expertise in drug discovery using computational science approaches □ Proficiency in utilizing various protein-related databases □ Expertise in conducting and analyzing experimental data on protein structural properties, including NMR, CD, DSC, ITC, and other validation experiments 				
Attitude in performing duties	<ul style="list-style-type: none"> □ A proactive, responsible, and diligent attitude toward solving problems □ An inquisitive approach to acquiring new knowledge and skills □ A positive and proactive communication style □ Efforts geared toward teamwork orientation 				
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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 7】

Area of recruitment	Development and Characterization of Secondary Battery Materials				
Academic major	Natural Science and engineering (chemistry, physics, chemical engineering, polymer engineering, materials engineering, energy materials, NMR spectroscopy, etc.)	Job position	Postdoctoral researcher	Locations	Seoul (Western)
NCS category	Main Category	Category		Sub-Category	
KBSI mission	A separate analysis was performed to prepare the following contents as the NCS has not developed job categories corresponding to the job duties				
KBSI main functions	<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 □ 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 and characterization of lithium and sodium secondary batteries <ul style="list-style-type: none"> - Development and characterization of solid, polymer, and liquid electrolytes - Development and characterization of cathode materials - Development of in-situ analysis methods □ Conducting domestic and international joint research 				
Capacity and ability	<ul style="list-style-type: none"> □ Materials development and characterization □ Writing of papers and patents □ Conducting/managing research projects 				
Required knowledge	<ul style="list-style-type: none"> □ Electrochemistry □ Secondary battery □ Inorganic materials or polymeric materials □ Solid-state or liquid state NMR spectroscopy 				
Required skills	<ul style="list-style-type: none"> □ Fabrication and characterization of secondary battery □ Synthesis and characterization of inorganic materials or polymeric materials □ Solid-state or liquid-state NMR spectroscopy 				
Attitude in performing duties	<ul style="list-style-type: none"> □ An highly motivated personnel with an active and proactive research attitude □ Attitude to take responsibility and make efforts to complete tasks □ Active and cooperative communication skills between team members and joint research groups 				
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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 8】

Area of recruitment	Development of Disease Diagnosis and Treatment based on Imaging Analysis				
Academic major	Biology or related fields	Job position	Postdoctoral researcher	Locations	Gwangju
NCS category	Main Category	Category		Sub-Category	
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"> □ Evaluation of disease diagnostics and therapeutic efficacy using real-time monitoring in cellular and animal models 				
Capacity and ability	<ul style="list-style-type: none"> □ Ability to perform live imaging analysis in cellular and animal models □ Ability to carry out research projects and write scientific papers 				
Required knowledge	<ul style="list-style-type: none"> □ Molecular and cellular biology □ Biochemistry □ Cellular and animal models of human diseases 				
Required skills	<ul style="list-style-type: none"> □ Real-time biological imaging analysis technology □ Disease diagnosis, therapeutic discovery and efficacy evaluation 				
Attitude in performing duties	<ul style="list-style-type: none"> □ A proactive, responsible, and sincere attitude toward problem-solving □ A positive and proactive attitude toward communication □ A collaborative and team-oriented approach □ An exploratory attitude toward new knowledge and technology 				
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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 9】

Area of recruitment	Development of Optical Instruments and Application Research				
Academic major	Physics, Electronics, Mechanics, Materials etc.	Job position	Postdoctoral researcher	Locations	Daejeon
NCS category	Main Category	Category		Sub-Category	
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 Optical 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	<ul style="list-style-type: none"> □ Conducting research and development project □ Writing research papers and patents 				
Required knowledge	<ul style="list-style-type: none"> □ Knowledge related to optics or thermophysical properties and heat transfer 				
Required skills	<ul style="list-style-type: none"> □ Technology related to optical equipment development or thermal properties and heat transfer measurement/analysis 				
Attitude in performing duties	<ul style="list-style-type: none"> □ Proactive, responsible and sincere attitude to solve problems □ Inquisitive attitude toward new knowledge and skills 				
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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 10】

Area of recruitment	Advanced Transmission Electron Microscopy for Material Analysis and Data Processing				
Academic major	Materials Science and Engineering, Materials Engineering, Energy and Semiconductor Engineering, Physics, Chemistry, Chemical Engineering, or Microscopy-related fields.	Job position	Postdoctoral researcher	Locations	Daejeon
NCS category	Main Category	Category		Sub-Category	
KBSI mission	<input type="checkbox"/> 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	<input type="checkbox"/> Research support and joint research through the development and operation of cutting-edge large-scale research equipment <input type="checkbox"/> Development of analytical technology and equipment through analytical science research <input type="checkbox"/> In charge of general management of national research facilities and equipment <input type="checkbox"/> Fostering research equipment experts and creative future talent				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<input type="checkbox"/> Optimize conditions for high-resolution 4D STEM/Mono EELS data acquisition, produce data, and handle data processing through coding <input type="checkbox"/> Establish high-precision analysis protocols for spectral data (EELS, EDX) <input type="checkbox"/> Design experiments for structural and compositional analysis of semiconductor and energy materials and develop related data acquisition techniques				
Capacity and ability	<input type="checkbox"/> Operation of advanced electron microscopy and experimental design <input type="checkbox"/> STEM/EELS/EDX-based analysis and simulation technique development skills <input type="checkbox"/> Documenting experimental results and report-writing skills				
Required knowledge	<input type="checkbox"/> Theoretical and practical understanding of STEM/EELS/4D STEM <input type="checkbox"/> Background knowledge in materials science, nanostructure analysis, and EM simulation <input type="checkbox"/> Coding knowledge such as DM scripting for handling electron microscopy data including image and EELS				
Required skills	<input type="checkbox"/> Optimization of experiments for TEM/STEM/EELS etc multidimensional data acquisition <input type="checkbox"/> Conduct data analysis for semiconductor and energy materials <input type="checkbox"/> Design and implement microscopy data analysis with DM Scripting, Python coding, and interpret results				
Attitude in performing duties	<input type="checkbox"/> Proactive and responsible research execution <input type="checkbox"/> Positive attitude toward acquiring new technology and active collaboration <input type="checkbox"/> Proactive, energetic research execution and emphasis on teamwork				
Reference websites	<input type="checkbox"/> www.ncs.go.kr (except for the undeveloped jobs in NCS) <input type="checkbox"/> - The above job description was prepared through a separate analysis. <input type="checkbox"/> http://www.kbsi.re.kr (KBSI website) <input type="checkbox"/> https://kbsi.recruiter.co.kr (KBSI application site)				

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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 11】

Area of recruitment	Development of AI-based data analysis models and processing technologies				
Academic major	Artificial Intelligence, Information and Communication Engineering, Computer Engineering, Materials Science, or related interdisciplinary 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"> □ Establishment of large-scale automated preprocessing and analysis pipelines for image and signal data □ Development of technologies for building big datasets for training and validation of physics-based simulations and AI models □ Development of deep learning-based algorithms for analysis, interpretation, and defect detection of image and various signal data, as well as development of analytical application software. 				
Capacity and ability	<ul style="list-style-type: none"> □ Expertise in deep learning algorithms for image and signal processing. □ Capability to simulate and build datasets for AI training. □ Ability to publish research findings and conduct collaborative research. 				
Required knowledge	<ul style="list-style-type: none"> □ Proficiency in deep learning frameworks and programming languages (Python, C++). □ Theoretical understanding of computer vision architectures □ Understanding of various data characteristics and signal processing principles and applications. 				
Required skills	<ul style="list-style-type: none"> □ Automated data preprocessing and algorithm development for diverse data. □ Neural network modeling and simulation techniques for data analysis. □ Proficiency in statistical tools for quantitative evaluation and analysis of AI experiments. 				
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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 12】

Area of recruitment	Synthesis and Analysis of Battery Materials with Electron Microscopy-Based Structural Characterization				
Academic major	Materials Science and Engineering, Energy Engineering, Electrochemistry, Chemistry, Chemical Engineering or related fields	Job position	Postdoctoral researcher	Locations	Daejeon
NCS category	Main Category	Category		Sub-Category	
KBSI mission	<p>A separate analysis was performed to prepare the following contents as the NCS has not developed job categories corresponding to the job duties</p> <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"> □ Synthesis of battery materials (e.g., cathode, anode, solid electrolyte) and cell fabrication □ Basic electrochemical testing and performance evaluation □ Microstructural and interfacial analysis using TEM, SEM, and FIB □ Integrated analysis of structural, chemical, and electrochemical data; participation in collaborative research 				
Capacity and ability	<ul style="list-style-type: none"> □ Experimental skills in material synthesis and battery cell assembly □ Basic operation of electrochemical instruments and data interpretation □ Experience with electron microscopy and sample preparation (TEM, FIB, etc.) □ Ability to summarize research outcomes in reports, papers, or patents 				
Required knowledge	<ul style="list-style-type: none"> □ Fundamentals of energy materials, including lithium-based batteries □ Principles of electrochemical measurements □ Basic theory and application of electron microscopy techniques 				
Required skills	<ul style="list-style-type: none"> □ Hands-on experience in material processing and cell fabrication □ Electrochemical testing and basic data handling □ Sample preparation and microstructural analysis using TEM/FIB □ Data organization, graphing, and technical 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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 13】

Area of recruitment	Development and Application of Next-Generation Batteries				
Academic major	Physics, Chemistry, Chemical Engineering, Materials Science and Engineering, Energy Materials, Electrical Engineering or related fields	Job position	Postdoctoral researcher	Locations	Daejeon
NCS category	Main Category	Category		Sub-Category	
KBSI mission	A separate analysis was performed to prepare the following contents as the NCS has not developed job categories corresponding to the job duties				
KBSI main functions	<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 □ 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 electrode and electrolyte materials for next-generation secondary batteries and electrochemical characterization □ Design, assembly, and application development of next-generation battery systems □ Performing domestic and international collaborative research 				
Capacity and ability	<ul style="list-style-type: none"> □ Material development and property analysis, analysis of electrochemical properties □ Performing domestic and international collaborative research project □ Writing papers and patents 				
Required knowledge	<ul style="list-style-type: none"> □ Electrochemistry, secondary Batteries, energy Storage □ Battery design and assembly □ Nanomaterials and polymer materials 				
Required skills	<ul style="list-style-type: none"> □ Synthesis technique of materials for secondary batteries □ Assembly technique of secondary batteries □ Electrochemical Analysis Technology 				
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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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 14】

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

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【2025-3 Recruitment for Postdoctoral Researcher Job Description – 15】

Area of recruitment	Policy Planning and Business Operations related to National Research Facility Equipment				
Academic major	All fields in the humanities, social sciences, natural sciences and engineering	Job position	Postdoctoral researcher	Locations	Daejeon
NCS category	Main Category	Category		Sub-Category	
NCS 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) □ http://www.nfec.go.kr (NFEC website) □ https://kbsi.recruiter.co.kr (KBSI application site) 				

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