

2026-4 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 8 areas, total of 10people)

No.	Department	Areas of training (Academic major)	Degree Require- ments	No. of openings	Location
1	NMR-Biophysics research unit	Integrated structural biology research using synchrotron radiation (Structural Biology, Biophysics, Biochemistry, or related fields)	Ph.D	1	Ochang
2	Biometabolic Research Unit	Advanced Analytical Instrument-Based Analysis of Metabolite and Functional Characterization (Chemistry, Biology, Pharmaceutical Sciences, Medicine, Integrative Biosciences, or related fields)	Ph.D	2	Seoul
3	Accelerated Ion Beam Application Research Unit	Power Semiconductor Materials and Device Development for High-Power Energy Systems (Materials Engineering, Semiconductor Engineering, Electronic Engineering, Chemical Engineering, Physics, and other related departments/disciplines)	Ph.D	1	Busan

No.	Department	Areas of training (Academic major)	Degree Require- ments	No. of openings	Location
4	Materials Analysis Instrumentation Research Unit	Development of analytical instruments and analysis technologies for next-generation computing semiconductors (Physics, Materials, Electronics, Mechanics, or related fields)	Ph.D	1	Daejeon
5	AI enhanced Electron Microscopy Research Unit	Development of AI-based deep learning models and data processing technologies (AI, Computer/ Electrical/Electronic Eng., ICT, Data Science, Physics, Materials Eng., or related fields.)	Ph.D	1	Daejeon
6	AI enhanced Electron Microscopy Research Unit	Advanced Transmission Electron Microscopy for Material Analysis and Data Processing (Materials Science, Electron Microscopy, Physics, Chemistry, Energy engineering, or related fields)	Ph.D	1	Daejeon
7	Large-Scale Accelerator Policy Center	Establishment and Nurturing of National Accelerator Policy Support System for Large-scale Accelerator Technology Development (Natural Sciences/Engineering, Policy Studies, Technology Management, Industrial Engineering, or related fields)	Ph.D	1	Daejeon
8	National Research Facilities & Equipment Center	Policy Research, Program Planning and Management, and Institutional Development for Research Facilities and Equipment (All fields in the humanities, social sciences, natural sciences and engineering)	Ph.D	2	Daejeon

2. Eligibility and Preferences

Stage	Detailed Information
Requirements	◦ 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
Disqualifications	◦ 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: - 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)	◦ 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 October 6, 2026 (Tue) to October 21, 2026 (Wed), 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	◦ 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. [Eligibility Disqualification Criteria] ○ Individuals who do not meet the degree requirements for the position they are applying for - 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	◦ 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.

Stage	Detailed Information
	[Blind Hiring Violation Criteria for Document Screening] 1) If an applicant directly or indirectly discloses their gender, age, or family relationships in their personal statement, competency statement, or file names. - 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.
Online Personality Test	◦ 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	◦ 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) ◦ 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 [Blind Hiring Violation Criteria for Interview Screening] ※ 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

<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 October 6 (Tue) to October 21 (Wed), 2026, 16:00 PM (KST)
Eligibility Screening of Applications	October 22 (Thu) to October 28 (Wed)
Document Screening	November 2 (Mon) to November 4 (Wed)
Announcement of Document Screening Results	November 6 (Fri)
Submission of Presentation Materials for Interview Screening	November 6 (Fri) to November 10 (Tue)
Interview Screening	November 16 (Mon) to November 18 (Wed)
Announcement of Final Interview Results	November 23 (Mon)
Expected Appointment Date	December

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

6. Required Documents

Stage	Detailed information
Document Screening	◦ Application materials (including application form, self-introduction letter, and experience/career statements)
Interview Screening	◦ Presentation materials on research/work achievements and future plans
Documents to Bring on Interview Day	◦ 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	◦ 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

- 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 4th Recruitment for Postdoctoral Researcher Job Description – 1】

Area of recruitment	Integrated structural biology research using synchrotron radiation					
Academic major	Structural Biology, Biophysics, 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	□ 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	□ Synchrotron/home-source (X-ray crystallography, SAXS) experiments □ Characterization of protein properties and molecular interactions □ Protein structure analysis and research paper preparation □ Collaborative research using KBSI Cryo-EM/NMR					
Capacity and ability	□ Ability to perform protein purification and structural biology experiments □ Ability to calculate protein structures □ Ability to conduct independent and convergence joint research □ Capabilities in data interpretation, paper/patent preparation, and research communication					
Required knowledge	□ Basic and applied knowledge related to structural biology and biophysics □ Knowledge in protein structure-based drug development					
Required skills	□ Operational skill for structural biology research equipment □ Data collection, processing, analysis techniques for determination of protein structure □ Software utilization skill for calculation of protein structure □ Protein purification and biochemical techniques					
Attitude in performing duties	□ Good interpersonal relationship, efficient work ability, and responsible, diligent attitude □ Inquisitive attitude toward new knowledge and skills in the field of structural biology, with an active communication approach. □ Integrated thinking skills for convergence research fields					
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.fairy.im/ (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.

【2026 4th Recruitment for Postdoctoral Researcher Job Description – 2】

Area of recruitment	Advanced Analytical Instrument-Based Analysis of Metabolite and Functional Characterization				
Academic major	Chemistry, Biology, Pharmaceutical Sciences, Medicine, Integrative Biosciences, or related fields	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	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 metabolite analysis technologies using nuclear magnetic resonance (NMR) spectroscopy and mass spectrometry (MS) Identification of biological targets through metabolomic profiling of biological samples Disease-specific metabolite analysis Investigation of disease-specific metabolic mechanisms				
Capacity and ability	Maintenance of research records and management of research outcomes Oral and poster presentations at seminars and academic conferences Reading and writing of scientific papers in English				
Required knowledge	Basic knowledge of chemistry, life sciences, or related disciplines Understanding of analytical instrument and bioanalytical research Understanding of disease biology and biomolecular research				
Required skills	Experimental research and data analysis Ability to interpret analytical results				
Attitude in performing duties	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	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.fairy.im/ (KBSI application site)				

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【2026 4th Recruitment for Postdoctoral Researcher Job Description – 3】

Area of recruitment	Power Semiconductor Materials and Device Development for High-Power Energy Systems				
Academic major	Materials Engineering, Semiconductor Engineering, Electronic Engineering, Chemical Engineering, Physics, and other related departments/disciplines		Job position	Postdoctoral researcher	Locations Busan
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	□ Design of β -Ga ₂ O ₃ -based high-voltage Schottky Barrier Diodes (SBDs) □ TCAD-based power semiconductor device simulation and process optimization □ Analysis of breakdown voltage and leakage current □ Power semiconductor packaging and thermal analysis □ Conduct joint research and research and development on semiconductor and power semiconductor materials □ Conduct materials-characterization research using advanced analytical instruments □ Conduct surface modification research using ion beams □ Planning of research and development projects related to the above fields				
Capacity and ability	□ Research on device characteristics of advanced materials (semiconductors, power semiconductors, surface modification, extreme-environment materials, etc.) □ Professional knowledge of semiconductor and power semiconductor material/device fabrication and bandgap engineering □ Research on the properties of advanced materials (semiconductors, power semiconductors, surface modification, extreme-environment materials, etc.) □ Research on defect control in semiconductor and power semiconductor materials and use of advanced surface-analysis science □ Planning of research and development projects in the above fields				
Required knowledge	□ Knowledge of Sentaurus/Silvaco TCAD □ Breakdown and leakage mechanisms in high-voltage devices □ Professional knowledge of semiconductor and power semiconductor material fabrication and bandgap engineering □ Knowledge of operating X-ray- and ion-beam-based surface analysis equipment				
Required skills	□ Ability to analyze power semiconductor devices based on T-CAD □ Ability to analyze electric-field distribution and defect/trap physics □ Technologies for fabrication and application of advanced materials (semiconductors, power semiconductors, surface modification, extreme-environment materials, etc.)				
Attitude in performing duties	□ 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	□ 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.fairy.im/ (KBSI application site)				

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【2026 4th Recruitment for Postdoctoral Researcher Job Description – 4】

Area of recruitment	Development of analytical instruments and analysis technologies for next-generation computing semiconductors				
Academic major	Physics, Materials, Electronics, Mechanics, 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	□ 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	□ Develop and operate analytical systems for random-computing semiconductor devices □ Develop measurement and analysis technologies for next-generation memory semiconductor devices, arrays, chips, and systems, including STT-MRAM □ Prepare research reports, technical documents, and academic papers				
Capacity and ability	□ Ability to perform semiconductor measurements and data analysis □ Ability to conduct independent and convergence joint research □ Ability to interpret research results and prepare and disseminate papers and patents				
Required knowledge	□ Knowledge of heat transfer and vacuum environments □ Knowledge of the operation and management of instrumentation systems □ Knowledge of semiconductor experiments and data analysis				
Required skills	□ Experimental skills and equipment setup capabilities for developing analytical systems □ Ability to use relevant software tools for semiconductor characterization, such as 3D drawing software and LabView □ Research experience in related academic or technical fields				
Attitude in performing duties	□ 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	□ 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.fairy.im/ (KBSI application site)				

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【2026 4th Recruitment for Postdoctoral Researcher Job Description – 5】

Area of recruitment	Development of AI-based deep learning models and data processing technologies				
Academic major	AI, Computer/Electrical/Electronic Eng., ICT, Data Science, Physics, Materials Eng., 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	□ 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	□ Develop DL algorithms for denoising, restoration, segmentation, detection, classification, anomaly detection, and structural analysis of image/signal data □ Conduct applied AI research on automated interpretation and quantification of multimodal measurement data (spectra, time-series signals, EM images) □ Establish reproducible analysis frameworks by automating preprocessing and building training and evaluation pipelines for analytical instrument data □ Build large-scale training datasets and validate AI models via data augmentation, generative models, or measurement-based simulation (e.g., high-resolution imaging)				
Capacity and ability	□ Ability to design and improve DL algorithms for diverse measurement data □ Ability to build training datasets via synthesis, augmentation, and labeling □ Ability to publish/present internationally and conduct joint/industry research				
Required knowledge	□ Knowledge of DL frameworks (PyTorch, TensorFlow) and languages (Python) □ DL architectures/methods: CNN, ViT, diffusion, time-series, self-supervised □ Image/spectral/time-series data, signal processing, and statistics				
Required skills	□ Preprocessing automation, data augmentation, and algorithm development □ Modeling and programming for measurement and synthetic data simulation □ Statistical evaluation, uncertainty analysis, and reproducibility				
Attitude in performing duties	□ Proactive and responsible approach to problem-solving □ Explorative mindset towards new knowledge, technology, and measurement principles. □ Positive, effective communication □ Team-oriented collaboration and willingness to acquire domain knowledge from analytical science researchers				
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.fairy.im/ (KBSI application site)				

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【2026 4th Recruitment for Postdoctoral Researcher Job Description – 6】

Area of recruitment	Advanced Transmission Electron Microscopy for Material Analysis and Data Processing				
Academic major	Materials Science, Electron Microscopy, Physics, Chemistry, Energy 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	□ 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	□ Optimize conditions for high-resolution 4D STEM/Mono EELS data acquisition, produce data, and handle data processing through coding □ Establish high-precision analysis protocols for spectral data (EELS, EDX) □ Design experiments for structural and compositional analysis of semiconductor and energy materials and develop related data acquisition techniques				
Capacity and ability	□ Operation of advanced electron microscopy and experimental design □ STEM/EELS/EDX-based analysis and simulation technique development skills □ Documenting experimental results and report-writing skills				
Required knowledge	□ Theoretical and practical understanding of STEM/EELS/4D STEM □ Background knowledge in materials science, nanostructure analysis, and EM simulation □ Coding knowledge such as DM scripting for handling electron microscopy data including image and EELS				
Required skills	□ Optimization of experiments for TEM/STEM/EELS etc multidimensional data acquisition □ Conduct data analysis for semiconductor and energy materials □ Design and implement microscopy data analysis with DM Scripting, Python coding, and interpret results				
Attitude in performing duties	□ Proactive and responsible research execution □ Positive attitude toward acquiring new technology and active collaboration □ Proactive, energetic research execution and emphasis on 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.fairy.im/ (KBSI application site)				

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【2026 4th Recruitment for Postdoctoral Researcher Job Description – 7】

Area of recruitment	Establishment and Nurturing of National Accelerator Policy Support System for Large-scale Accelerator Technology Development				
Academic major	Natural Sciences/Engineering, Policy Studies, Technology Management, Industrial 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	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	Analysis of domestic and international policy and regulatory trends related to large accelerators Support for the establishment of large accelerator technology development roadmaps and mid-to-long-term development strategies Investigation and analysis of operational status and outcomes of domestic and international accelerator facilities				
Capacity and ability	Ability to conduct performance analysis and policy/strategy/planning related to large accelerators Ability to investigate and analyze domestic and international technology trends and policy environments Ability to operate multi-institutional cooperative frameworks and communicate with stakeholders Ability to write and manage research reports and policy documents				
Required knowledge	Basic knowledge of large accelerator concepts and major application areas Knowledge of national R&D project planning and management systems and related legislation Knowledge of science and technology policy formulation procedures and government administrative structures				
Required skills	Skills in analyzing domestic and international policy and technical literature and writing reports Skills in collecting and analyzing statistics and performance data related to large accelerators Skills in utilizing national science and technology information systems (NTIS, IRIS, etc.) English reading and writing skills for identifying international trends				
Attitude in performing duties	Proactive and inquisitive attitude toward changes in accelerator science and technology and the policy environment Integrative thinking that encompasses technology, policy, and administration Effective communication and coordination skills in multi-institutional collaborative environments Responsible and self-directed work ethic				
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.fairy.im/ (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.

【2026 4th Recruitment for Postdoctoral Researcher Job Description – 8】

Area of recruitment	Policy Research, Program Planning and Management, and Institutional Development for Research Facilities and 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
	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	□ Policy and Institutional Research, Planning, and Management for National Research Facilities and Equipment □ Program Planning and Management for National Research Facilities and Equipment □ Operation and Management of the ZEUS System				
Capacity and ability	□ Policy and business planning □ Business operations related to national research facilities and equipment □ Writing business plans, papers, and reports				
Required knowledge	□ 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	□ 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	□ 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	□ 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.fairy.im/ (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.