

【Job Description for Research Scientist(Full-time) Recruitment No.1】

Area of recruitment	Analytical Science of Nanostructured Materials				
Academic major	Physics, Chemistry, Mechanical Engineering, Chemical Engineering, Materials Engineering, Energy Materials, Electrical Engineering, Electronic Engineering and related majors	Job position	Research Scientist	Locations	Daejeon
NCS category	Main Category	Category		Sub-Category	
	A separate analysis was performed to prepare the following contents as the NCS has not developed job categories corresponding to the job duties				
KBSI mission	<ul style="list-style-type: none"> □ Conducting R&D on research facilities & equipment and analytical S&T, and joint research and support for promoting basic science, the foundation of the national science and technology development 				
KBSI main functions	<ul style="list-style-type: none"> □ Research support and joint research through the development and operation of cutting-edge large-scale research equipment □ Development of analytical technology and equipment through analytical science research □ In charge of general management of national research facilities and equipment □ Fostering research equipment experts and creative future talent 				
General requirements	Age and gender	Not specified			
Educational requirements	Academic Background	Doctoral degree			
Required job duties	<ul style="list-style-type: none"> □ Conducting research and development related to advanced materials (energy, catalysts, semiconductors, etc.) □ Developing AI and machine learning-based electron microscopy image processing and analysis techniques, and performing analytical research using advanced transmission electron microscopy techniques (4D STEM, In-situ, Mono EELS) □ Conducting structural/chemical analysis using next-generation electron microscopy techniques and performing interpretation of AI-based 4D-STEM and EELS data □ Planning and implementing convergence/analytical, domestic and international collaborative research projects in advanced strategic materials fields 				
Capacity and ability	<ul style="list-style-type: none"> □ Material analysis development of advanced materials in depth perspectives □ Operation of advanced electron microscopes and development of AI-based data analysis algorithms 				
Required knowledge	<ul style="list-style-type: none"> □ Analytical approaches for Nanomaterials, Advanced materials, etc. □ Specialized techniques for interpreting transmission electron microscopy digital data and AI-based digital analytical data 				
Required skills	<ul style="list-style-type: none"> □ Development of advanced materials on analytical science □ Skills in advanced transmission electron microscopy data acquisition/processing and development/application of AI algorithms for EM analysis 				
Attitude in performing duties	<ul style="list-style-type: none"> □ Proactive, responsible, and diligent attitude to solve a problem □ An exploratory attitude towards new knowledge and skills □ Positive and active communication attitude □ Efforts oriented towards teamwork 				
Reference websites	<ul style="list-style-type: none"> □ www.ncs.go.kr (except for the undeveloped jobs in NCS) - The above job description was prepared through a separate analysis. □ http://www.kbsi.re.kr (KBSI website) □ https://kbsi.recruiter.co.kr (KBSI application site) 				

※ 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.