[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 – 1]

Area of recruitment	Development and	d Application of	Nanostruo	ctured Materials	s - Energy S	torage
Academic major	Physics, Chemistry, Engineering, Chemical Materials Engineering, Engineering Electrical Engineering Engineering	Engineering, nergy Materials, , Electronic	Job position	Postdoctoral researcher	Locations	Daedeok Headquarters
NCS	Main Category		Categor	у	Sub-Ca	ategory
category	A separate analysis wa not developed job cate				ontents as th	ne NCS has
KBSI mission	 Conducting R&D on research and supposcience and technology 	ort for promotin	ng basic			
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 degre	ee			
Required job duties	□ Development of nanos □ Synthesis of organic-inor □ Performing domestic a	rganic nanomateri	als and ar	nalysis of nanosti		
Capacity and ability	□ Material development □ Performing domestic a □ Writing papers and pa	and international				е
Required knowledge	□ Nanomaterials, energy□ Energy storage□ Analytical science	convergence r	materials			
Required skills	□ Synthesis and nanostr □ Analysis of material p □ Identification of energ	roperties		aterials		
Attitude in performing duties	□ Proactive, responsible □ An exploratory attitud □ Positive and active co □ Efforts oriented towar	e towards new ommunication at	knowledge		m	
Reference websites	 www.ncs.go.kr (exception) The above job destination http://www.kbsi.re.kr https://kbsi.recruiter.com 	cription was pro (KBSI website)	epared th	rough a separa	ate analysis.	

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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 - 2]

Area of recruitment	Developm			All-solid-state			
Academic major	Physics, Chemistry, Med Engineering, Chemical Eng Materials Engineering, E Materials, Electrical Engi Electronic Engineeri	gineering, Energy neering,	Job position	Postdoctoral researcher	Locations	Daedeok Headquarters	
Noo	Main Category		Categor	у	Sub-C	ategory	
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	research and support	 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 specif	fied				
Educational requirements	Academic Background	Doctoral o	degree				
Required job duties	 Development of electrode and analysis of electroche Design, assembly, and a Performing domestic and 	emical proper pplication of	erties Ievelopment	of all-solid-st	•	•	
Capacity and ability	□ Material development and □ Performing domestic and □ Writing papers and pater	internation				properties	
Required knowledge	□ Electrochemistry, second □ Battery design and asser □ Nanomaterials and polym	mbly		Storage			
Required skills	□ Synthesis technique of m □ Assembly technique of s			batteries			
Attitude in performing duties	 □ Proactive, responsible, a □ An exploratory attitude t □ Positive and active comr □ Efforts oriented towards 	owards ne nunication	w knowledge	solve a proble e and skills	em		
Reference websites	 www.ncs.go.kr (except for a second for a second	ption was 3SI website	prepared the	rough a separa	ate analysis.		

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 – 3]

Area of recruitment	Environmental Contamination	n & Reme	diation in th	ne Soil and	Groundwater Er	vironments	
Academic major	Hydrogeology, Hydrocher Environmental Eng., Radioch	nistry, nemistry	Job position	Postdocto research	I OCATIONS	Ochang Center	
NCC	Main Category	in Category Sub-Category					
NCS category	A separate analysis was per not developed job categories					e NCS has	
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 speci	fied				
Educational requirements	Academic Background	Doctoral o	degree				
Required job duties	Hydrogeochemical charactSolute transport modelingSite investigation		y techniques	s developm	nent		
Capacity and ability	 Basic Korean language sk Intermediate or higher Eng Assessment of geochemic 	glish readi	ng & writingies of radio	g active mat	erials		
Required knowledge	HydrogeologyHydrogeochemistryBasic radiochemistry						
Required skills	 Sorption/desorption experi Reactive transport modeling Solute concentrations analysis 	ng for rad	ioactive ma	terials			
Attitude in performing duties	 Inquisitive attitude toward 	□ Proactive, responsible and sincere attitude					
Reference websites	 www.ncs.go.kr (except for The above job description http://www.kbsi.re.kr (KBSI https://kbsi.recruiter.co.kr 	on was pr website)	epared thro	ough a sep	arate analysis.		

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 – 4]

Area of recruitment	(Control of anticancer drug			py technology resistance us		d exosomes)
Academic major	biology, biochemistry, bio medicine, etc	technology,	Job position	Postdoctoral researcher	Locations	Ochang Center
NCC	Main Category		Category		Sub-Cate	gory
NCS category	A separate analysis was protection not developed job category				ontents as the	NCS has
KBSI mission	 Conducting R&D on re research and support science and technolog 	for promotir	ng basic scie	ment and and ence, the four	alytical S&T, ar ndation of the	nd joint national
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 specifie	ed			
Educational requirements	Academic Background	Doctoral de	egree			
Required job duties	 Development of extracellular vesicle (exosome) production and separation/purification technology Development of a new technology for regulating anticancer drug resistance and immune resistance using exosomes loaded with candidate drugs Evaluation of TME-regulated in vitro and in vivo using TGF- β inhibitor/miRNA-based exosomes Investigation of anticancer drug resistance using exosomes with DNA polymerase protein inhibitor Establishment of co-culture system for three or more types of cell lines and development of anti-cancer resistance control image analysis technology 					
Capacity and ability	□ Technology to evaluate the □ Establishment and verific □ Confocal microscopy, flo □ Cell/tissue/biological sam □ Evaluation of anticancer □ Writing papers and pate	ation of ge w cytometry pling for op validity/effic	netically mod y, and moled tical imaging	lified cell line: cular biologica and real-tim	s I analysis techi e analysis	nology
Required knowledge	 □ Knowledge of cell-tissue □ Expertise in biochemistry □ Knowledge of gene and □ Knowledge of tumor mic □ Background knowledge of 	, molecular protein fun roenvironme	biology, cel ctions ent and antic	l biology, etc ancer resista	nce	
Required skills	□ Cell phenotype analysis □ Quantitative and qualitative a □ In-vitro/in-vivo anti-cand □ 3D cell culture experiend □ Basic technologies in molecula	analysis techno er efficacy ce and orga	ology of tumor evaluation to anoid fabricat	microenvironme echnology ion/analysis te	ent (TME) biomark echniques	Kers
Attitude in performing duties	□ A leading, responsible, a □ An inquiring attitude to □ A positive and active co □ A teamwork-oriented eff	new knowle ommunication	dge and skill		em	
Reference websites	 www.ncs.go.kr (except The above job description http://www.kbsi.re.kr (Kl https://kbsi.recruiter.co.k 	otion was pi BSI website)	repared thro	ugh a separa	te analysis.	

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 – 5]

Area of recruitment	Disease	mechanism and	drug effica	acy evaluation	research			
Academic major	Molecular Cell Biology, Proteomic		Job position	Postdoctoral researcher	Locations	Ochang Center		
NCS	Main Category		Category		Sub-Cate	gory		
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 degre	e					
Required job duties	 Discovery of biomark and clinical samples Research on the mec Establishment of an expression 	hanism of neuro	ological and	other disease	es			
Capacity and ability	Understanding of dise3D differentiation cultMass spectrometry-ba	ure of stem cell		d data interpre	etation			
Required knowledge	 General understanding Neuroscience and Und Overall understanding Understanding LC/MS 	derstanding the of the use of s	Causes of	Disease	models			
Required skills	 □ Animal cell/stem cell of □ Gene/protein biochemi □ Gene/protein imaging □ LC/MS analysis technic 	ical analysis tec technology						
Attitude in performing duties	□ Proactive, responsible and sincere attitude to solve problems □ Inquisitive attitude toward new knowledge and skills □ Positive and active communication attitude □ Teamwork Oriented Effort							
Reference websites	 www.ncs.go.kr (excellable) The above job destinated in http://www.kbsi.re.kr https://kbsi.recruiter.com/litios.gorg.thg/main.de 	scription was pro (KBSI website) co.kr (KBSI appli	epared thro	ugh a separat				

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 – 6]

Area of recruitment	Organoid	based Toxicity	Tests and	Analysis of	Target drugs		
Academic major	Biology, Molecular Ce Medical Science, Converg		Job position	Postdocto researche	I ocations	Ochang Center	
NCS	Main Category		Category		Sub-Cate	gory	
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 and suppor science and technolog 	t for promotii	ng basic so				
KBSI main functions	cutting-edge large-sc Development of ana research In charge of general in	cutting-edge large-scale research equipment Development of analytical technology and equipment through analytical science research					
General requirements	Age and gender	Not specified					
Educational requirements	Academic Background	Doctoral deg	ree				
Required job duties	Research of Toxicity 1Organoid based SOP/SDevelopment of Cell b	SPSF guideline		utilizing HCS	S system		
Capacity and ability	 Organoid culture and Experience of SOP/SP Research of target dr 	SF guideline	ro/in vivo a	nalysis			
Required knowledge	□ General Biological kno □ Big-data (Genome/Tra				Biology/Cell Biolo	gy/etc)	
Required skills	 Organoid culture and Drug screening analys Genome/Transcrioptom Efficacy evaluation in 	is utilizing cell e/Cell Phenoty	phenotype pe Big-data	and cellula		que	
Attitude in performing duties	Proactive, responsible,An exploratory attitudePositive and proactive	e towards new	v knowledge	and techr			
Reference websites	 www.ncs.go.kr (except The above job desc http://www.kbsi.re.kr (kg/m) https://kbsi.recruiter.co 	ription was pr (BSI website)	epared thro	ugh a sepa	arate analysis.		

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 - 7]

Area of recruitment	Development of TOF-SIMS	analysis e	quipment ar methods	nd research	on m	nass imagin	g analysis
Academic major	surface physics, analytical materials, fusion b		Job position	Postdocto research		Locations	Ochang Center
NCS	Main Category Category Sub-Category						
category	A separate analysis was penot developed job categori					ents as the	NCS has
KBSI mission	 Conducting R&D on research and support science and technology 	for promoti	ng basic s				
KBSI main functions	cutting-edge large-scale Development of analyt research In charge of general ma	cutting-edge large-scale research equipment Development of analytical technology and equipment through analytical science					
General requirements	Age and gender	Not specif	ied				
Educational requirements	Academic Background	Doctoral d	egree				
Required job duties	Development of cluster iCluster ion beam-basedResearch on mass imagi	mass spec	trometry of	organic ma			
Capacity and ability	 Bio sample preparation e Surface analysis or mass Experience in mass specential 	s spectrome			bio sa	amples	
Required knowledge	 (Preferential) Experience Experience in mass spec Surface analysis or mass (Preferential) 2D mass in 	ctrometry of spectrome	f organic or etry experie	r biological nce	sample	es	
Required skills	 Biological sample prepro- Surface analysis equipme 2D mass imaging analysi 	ent or mass	spectrome	etry equipm	ent uti	ilization tec	hnology
Attitude in performing duties	Persistence and diligence in analysis and experimentation						
Reference websites	 www.ncs.go.kr (except for above job description http://www.kbsi.re.kr (KBS) https://kbsi.recruiter.co.kr 	tion was pr SI website)	epared thro	ough a sepa	arate a	analysis.	

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 – 8]

Area of recruitment	Development of adaptiv	•	front corre		ology based o	n multi-agent
Academic major	Electrical, electronic, computer, etc. relate		Job position	Postdoctora researcher	Locations	Daedeok Headquarters
	Main Category		Categor	у	Sub-C	ategory
NCS category	A separate analysis was not developed job ca					the NCS has
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 degr	ee			
Required job duties	Prediction / Control /Research on Al-basedApplication research of	d optimal contr	ol design		ms	
Capacity and ability	Research paper writinProgramming skills (MPerforming research to	IĂTLAB / Pytho		iternational c	onferences	
Required knowledge	Knowledge of controlKnowledge of image		chine lear	ning, and rei	nforcement so	cience
Required skills	Research experienceResearch experienceHolography, Microsco	e in optical s			sion, Comput	ational-imaging,
Attitude in performing duties	 Self-motivation to perform tasks Active attitude toward collaboration for smooth joint research Open-mindedness to acquire new knowledge and develop research topics 					
Reference websites	 www.ncs.go.kr (excep The above job desc http://www.kbsi.re.kr (https://kbsi.recruiter.com 	ription was pre KBSI website)	epared thr	ough a sepa	rate analysis.	

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 – 9]

Area of recruitment	Developme	nt of Optic	al Instrume	nts and Applica	ation Research	h		
Academic major	Physics, Electronics, Me Materials etc.	echanics,	Job position	Postdoctoral researcher	Locations	Daedeok Headquarters		
NCS	Main Category		Categ	ory	Sub-0	Category		
category	A separate analysis was not developed job category					the NCS has		
KBSI mission	 Conducting R&D on research and support science and technolog 	t for prom	noting basic	equipment and science, the	d analytical foundation	S&T, and joint of the national		
KBSI main functions	cutting-edge large-sc Development of ana research In charge of general r	cutting-edge large-scale research equipment Development of analytical technology and equipment through analytical science						
General requirements	Age and gender	Not specif	fied					
Educational requirements	Academic Background	Doctoral o	legree					
Required job duties	 Development of Optica Development of therm Thermal analysis resea Research paper, pater 	o-reflectan arch for se	ce microsco miconducto	ope rs, nano, bio r				
Capacity and ability	Conducting research a Writing research pape			ct				
Required knowledge	 Knowledge related to 	optics or 1	thermophysi	cal properties	and heat tra	nsfer		
Required skills	 Technology related to transfer measurement/ 		uipment de	velopment or	thermal prop	erties and heat		
Attitude in performing duties	Proactive, responsibleInquisitive attitude tow				ems			
Reference websites	 www.ncs.go.kr (except The above job descr http://www.kbsi.re.kr (k https://kbsi.recruiter.co 	iption was (BSI websit	prepared tl e)	rough a sepa	rate analysis.			

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 - 10]

Area of recruitment	Development of p	hysical p	property meas	surement syst	em and appli	cation	
Academic major	Mechanical eng. Electrica Material sci. Physics e	•	Job position	Postdoctoral researcher	Locations	Daedeok Headquarters	
NCC	Main Category		Catego	ry	Sub-C	Category	
NCS category	A separate analysis was not developed job categor					s the NCS has	
KBSI mission	 Conducting R&D on re research and support science and technology 	for pror	noting basic				
KBSI main functions	cutting-edge large-scal Development of analy research In charge of general ma	cutting-edge large-scale research equipment Development of analytical technology and equipment through analytical science					
General requirements	Age and gender	Not spe	cified				
Educational requirements	Academic Background	Doctoral	degree				
Required job duties	Heat and mass transferLow temperature proper						
Capacity and ability	Development of heat tra Development of low ten				d application		
Required knowledge	Analysis of low temperaLow temperature systemWriting of journal and remaining	n experir	ment and app				
Required skills	Heat transfer system ar3D drawing technologyLabView programming to	for deve	lopment of p	roperty measi	urement syste		
Attitude in performing duties	 A proactive, responsible Exploratory attitude tow Positive, active commun Teamwork-oriented approach 	ards nev iication a	v knowledge			olving	
Reference websites	 www.ncs.go.kr (except f The above job descrip http://www.kbsi.re.kr (KB https://kbsi.recruiter.co.k 	tion was SI websi	prepared the	rough a separ	rate analysis.		

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 - 11]

Area of recruitment		Bioimaging u	ısing electro	n microscopy			
Academic major	All fields of biol	ogy	Job position	Postdoctoral researcher	Locations	Ochang Center	
NCS	Main Category		Category		Sub-Cate	gory	
category	A separate analysis was not developed job categ				contents as th	ne NCS has	
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 deg	ree				
Required job duties	 Conducting biological confocal microscopy Studying intracellular of Standardizing and mar Performing domestic and standardizing and standardized and stand	organelle imag naging image (ing and pro data	tein-protein ir	•		
Capacity and ability	Planning and conductingPerforming biological of Writing and publishing	experiments us	sing TEM or	confocal mic	roscopes		
Required knowledge	 Knowledge and expeetc. 	rience in biol	ogy, (moled	cular) cell bic	ology, bioimag	ing analysis,	
Required skills	Proficiency in writing Familiarity with EM or				re preferred		
Attitude in performing duties	Curious and eager toPositive and active co	 Curious and eager to learn new knowledge and skills Positive and active communication skills 					
Reference websites	 www.ncs.go.kr (except The above job descr http://www.kbsi.re.kr (label) https://kbsi.recruiter.co 	iption was pre (BSI website)	epared throu	ugh a separat	e analysis.		

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 - 12]

Area of recruitment	Research on imaging	technology a	and disease	based on Mi	RI imaging tech	nnology
Academic major	MRI, Medicine and Pha Veterinary medicine, Bid engineering, Medical life, Physics	omedical	Job position	Postdoctora researcher		Ochang Center
NCS	Main Category		Category	,	Sub-Cate	egory
category	A separate analysis was not developed job categor				contents as t	he NCS has
KBSI mission	 Conducting R&D on re research and support science and technology 	for promotii	ng basic s			
KBSI main functions	cutting-edge large-scal Development of analy research In charge of general ma	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				
General requirements	Age and gender	Not specified	d			
Educational requirements	Academic Background	Doctoral deg	ıree			
Required job duties	Development of imagingDevelopment of variousDisease research based	brain imagir	ng analysis			
Capacity and ability	Ability to operate and u Ability to conduct indep Ability to interpret expe	endent and	convergenc			patents
Required knowledge	Basic and applied knowl Intermediate and upper			sease researc	:h	
Required skills	 Operational skill for anir Software utilization skill MRI image data analysis 	for image d				
Attitude in performing duties	 Inquisitive attitude towar Integrated thinking skills Creative/challenging/posi Good interpersonal relat 	for converg tive/proactiv ionship, effic	gence resea e problem s cient work a	arch fields solving skills ability, and re	sponsible, dilig	ent attitude
Reference websites	 www.ncs.go.kr (except f The above job descrip http://www.kbsi.re.kr (KB https://kbsi.recruiter.co.k 	tion was pre SI website)	epared thro	ugh a separa	te analysis.	

^{**} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 - 13]

Area of recruitment	Development of analytical techniques in metabolomics using mass spectrometer							
Academic major	Chemistry, Biology, Ph Medicine, Converge		Job position	Postdoctoral researcher	Locations	Western Seoul Center		
NCS	Main Category	y Category Sub-Category						
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	ademic Background Doctoral degree						
Required job duties	Development of analytical techniques in metabolomics using liquid chromatography-mass spectrometer (LC-MS) Target discovery using metabolic profiling approach in biological samples							
	Analysis of disease-specific biomolecules							
Capacity and ability	 LC-MS-based analysis of biomolecules and metabolites Research based on metabolomics Writing research papers and reports 							
Required knowledge	 Technical knowledge related to the LC-MS Understanding of metabolic functions and pathways 							
Required skills	 Technology for metabolite analysis and data interpretation using LC-MS Technology for metabolic function Biochemical analysis technology of biomolecules 							
Attitude in performing duties	 Proactive, responsible and sincere attitude to solve problems Inquisitive attitude toward new knowledge and skills Positive and active communication attitude Effort to improve teamwork 							
Reference websites	 www.ncs.go.kr (except for the undeveloped jobs in NCS) The above job description was prepared through a separate analysis. http://www.kbsi.re.kr (KBSI website) https://kbsi.recruiter.co.kr (KBSI application site) 							

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 - 14]

Area of recruitment	Development of metabolite separation technique for drug discovery and disease research						
Academic major	Chemistry, Biology, Pharman Medicine, Convergence		Job position	Postdoctoral researcher	Locations	Western Seoul Center	
NCS category	Main Category Category Sub-Category A separate analysis was performed to prepare the following contents as the NCS h						
KBSI mission	not developed job categories corresponding to the job duties 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 specifi	ed				
Educational requirements	Academic Background	Doctoral de	egree				
Required job duties	 Development of metabolite separation and analysis technology using mass spectrometer or NMR Discovery of biomarkers for disease diagnosis and treatment efficacy prediction Research for investigation of drug metabolism and mechanisms underlying disease 						
Capacity and ability	 Metabolite separation and analysis in biological samples using mass spectrometer and NMR Research for investigation of drug metabolism and mechanisms underlying disease based on metabolite separation and analysis Writing research papers and reports 						
Required knowledge	 Knowledge of mass spectrometer or NMR Expertise knowledge in metabolite separation analysis Understanding of metabolic functions and pathways 						
Required skills	 Technology for metabolite analysis and data interpretation Technology for metabolic function analysis Biochemical analysis technology of biomolecules 						
Attitude in performing duties	 Proactive, responsible and sincere attitude to solve problems Inquisitive attitude toward new knowledge and skills Positive and active communication attitude Effort to improve teamwork 						
Reference websites	 www.ncs.go.kr (except The above job descri http://www.kbsi.re.kr (K https://kbsi.recruiter.co. 	iption was ¡ (BSI website	prepared (through a sepa	arate analysis	5.	

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 - 15]

Area of recruitment	Development of analytical techniques in metabolomics using NMR spectroscopy						
Academic major	Chemistry, Biology, Pharmace Medicine, Convergence Biol		Job position	Postdoctoral researcher	Locations	Western Seoul Center	
NCS	Main Category	Category Sub-Category					
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	 Development of analytic resonance (NMR) spectros 		niques in	metabolomics	using nu	iclear magnetic	
duties	□ Target discovery using metabolic profiling approach in biological samples □ Analysis of disease-specific biomolecules						
Capacity and	NMR-based analysis of biomolecules and metabolites						
ability	Research based on metabolomicsWriting research papers and reports						
Required knowledge	 Technical knowledge related to the NMR Understanding of metabolic functions and pathways 						
Required skills	 Technology for metabolite analysis and data interpretation using NMR Technology for metabolic function Biochemical analysis technology of biomolecules 						
Attitude in	□ Proactive, responsible and sincere attitude to solve problems						
performing duties	 Inquisitive attitude toward new knowledge and skills Positive and active communication attitude Effort to improve teamwork 						
Reference	 www.ncs.go.kr (except for The above job description 		•	•	ate analysis		
Reference - 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 – 16]

Area of recruitment	Biological Application of EPR Spectroscopy on structural and mechanistic study							
Academic major	Chemistry, Biology, Phys	ics Job position	Postdoctoral researcher	Locations	Western Seoul Center			
NCS	Main Category	Category Sub-Category						
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	nic Background Doctoral degree						
Required job duties	 Structural and dynamics study of biological materials by using EPR spectroscopy Mechanistic studies on biological materials by using EPR spectroscopy Applications and development of Multitechnique EPR spectroscopy 							
Capacity and ability	 Ability to write research manuscripts Ability to present his/her research results Ability to handle research data 							
Required knowledge	 Knowledge on advanced chemistry Knowldege on basic magnetic resonance spectroscopy or computational chemistry Knowledge on bio-inorganic chemistry 							
Required skills	 Skills on spectroscopic data process Skills on analysis of magnetic resonance data Skills on basic computational chemistry 							
Attitude in performing duties	□ Capability to communicate with team □ Responsibility in perfoming duties □ Collaborative attitude in perfoming projects							
Reference websites	 www.ncs.go.kr (except for the undeveloped jobs in NCS) The above job description was prepared through a separate analysis. http://www.kbsi.re.kr (KBSI website) https://kbsi.recruiter.co.kr (KBSI application site) 							

^{*} 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.

[Job Description for 3rd Postdoctoral Fellow Recruitment for 2023 - 17]

Area of recruitment	Deliberation, policy planning, a		ness opera and equipr		national res	search facilities
Academic major	All fields in the humanities, s sciences, natural sciences a engineering		Job position	Postdoctoral researcher	Locations	Daedeok Headquarters
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 and support for science and technology de 	promo	ting basic	equipment and science, the	analytical S foundation c	&T, and joint of the national
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 sp	ecified			
Educational requirements	Academic Background	Doctora	al degree			
Required job duties	 Deliberation on the implementation 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	 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 facilities and equipment MS Excel and statistical data analysis, data management skills 					
Attitude in performing duties	 Proactive, responsible and sincere attitude to solve problems Inquisitive attitude toward new knowledge and skills Positive and active communication attitude Effort to improve teamwork 					
Reference websites	 www.ncs.go.kr (except for The above job description http://www.kbsi.re.kr (KBSI) https://kbsi.recruiter.co.kr (kg) 	was p website	repared th	rough a separa	ite analysis.	

^{*} 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.