

※ This announcement is for foreigners who have difficulty using Korean.

As a government-funded research institution, Korea Research Institute of Standards and Science (KRISS) performs research involving basic and original technology in all areas of science and technology. Based on the National Competency Standards associated with blind recruitment, it now calls for competent scientists from various areas who are encouraged to pursue their dream and passion at KRISS.

□ Area for employment

Field		Assigned task	Personnel	Code
Physical Metrology	Time transfer by satellites and optics	• Time comparison and synchronization using satellites	1	A01
	Multiscale length metrology	• Development of fiber mode-locked laser for precision dimensional metrology • Frequency comb based ultraprecision laser interferometer	1	A02
Chemical and Biological Metrology	Radioactivity Metrology Team	• Development of a DAQ and electrostatic radon detector of radon mitigation system • Development of a radioactivity certification system	1	B01
Advanced Instrumentation	Optical Nano Metrology	• Research and development of real-time nano-optical measurement technology for core measuring devices for semiconductor and display processes	1	C01
	반도체측정장비2 (YS사업*)	Only Koreans can apply	1	C02
	Laser nano-engineering	• Instrumentation for Ultrafast laser nano-processing • Application of ultrafast laser processing for material science	1	C03
	Space Optics	• Optical metrology for space optics • Development of novel testing method for surface error of large mirror	1	C04
	광영상측정표준	Only Koreans can apply	1	C05
Quantum Technology	Quantum Spin1	• A study on the properties measurement of various smart IT materials • Building a database of smart IT material properties analysis methods and linking them to measurements standardization • Development for material characterization method on the next generation 2-dimensional smart IT materials • Development of dark field microscopy for large scaled structural image on monolayer thin film	1	D01
	Quantum Spin2	• Electronic structure of quantum materials with ARPES and XPS • Spin structure with SEMPA • Development of k-IPES and spin-polarized electron source	1	D02

Field	Assigned task		Personnel	Code
Interdisciplinary Materials Measurement	Hyperspectral Nano-imaging	<ul style="list-style-type: none"> • Developing hyper-spectral near-field imaging in liquid phase • Developing nonlinear spectroscopic nanoimaging • Analyzing nanoscale optical/electrical/chemical properties of novel nano-composite material /device 	1	E01
	AI Metamaterial Research1	<ul style="list-style-type: none"> • AI and signal processing-based prognostics and health management (PHM) of an engineering system • AI-based ultrasonic signal analysis and non-destructive evaluation 	1	E02
	AI Metamaterial Research2	<ul style="list-style-type: none"> • Vibration/Acosutic/Ultrasonic experiments and data analysis • Nondestructive testing data analysis and AI solution evaluation 	1	E03
	Smart devices1	<ul style="list-style-type: none"> • Collection and AI utilization of materials research data • Data-driven new materials design and development 	1	E04
	Smart devices2	<ul style="list-style-type: none"> • Development of material and device technology for thermoelectric cooling • Development of smart device with built-in cooling module 	1	E05
	Smart devices3	<ul style="list-style-type: none"> • Development of organic/inorganic electrode materials and evaluation technique for Li-ion battery • Development of measurement protocol for organic redox flow battery 	1	E06
Safety Measurement	Bio-imaging1	<ul style="list-style-type: none"> • Development of optical imaging technology (OCT, OCM, nonlinear optical microscopy, photoacoustic microscopy, and etc.) for biomedical fields • Development of optical image processing and analysis technology 	1	F01
	Bio-imaging2	<ul style="list-style-type: none"> • Nano-bio application research based on nano-patterning • Performing nano patterning and vacuum deposition process 	1	F02
	Bio-imaging3	<ul style="list-style-type: none"> • Cell- and Tissue-based Nanomaterial Toxicity Study • Development of Methodology for 3D Ex-vivo and Organoid Imaging 	1	F03
	Nanomaterials measurement	<ul style="list-style-type: none"> • Development of metrology for physicochemical characteristic of nanomaterials 	1	F04
	High-temperature properties of metal materials	<ul style="list-style-type: none"> • Thermal-mechanical fatigue test • Material property data system construction 	1	F05
	Metrology of GHGs	<ul style="list-style-type: none"> • Development of optical frequency comb based precision molecular spectroscopy (frequency stabilized CRDS, Dual comb spectroscopy, Cavity enhanced spectroscopy) 	1	F06
R&D Policy and Technology	National Center for Standard Reference Data	<ul style="list-style-type: none"> • A Study on Data Reliability for National Reference Standard System Operation – Data traceability and uncertainty 	1	G01

Field		Assigned task	Personnel	Code
Services		<ul style="list-style-type: none"> • A Study on AI Reliability for National Reference Standard System Operation – Data·AI Reliability 		

※ Candidates can only apply in one of the recruitment fields, and if overlapping or cross-applications are confirmed, admission is cancelled.

☐ Eligibility

Classification	Description
Post-doc.	<ul style="list-style-type: none"> ○ Eligibility requirements <ul style="list-style-type: none"> – Those who do not fall under the reasons for disqualification for appointment <ul style="list-style-type: none"> • Those who have not suspended or deprived voting rights by law • Those who have not evaded military service obligations • Those who have not been caught for fraudulent employment • Those who have not been dismissed due to misconduct • Those without reasons for disqualification for overseas travel – Those who earned their Ph.D. within the past 5 years or will earn their Ph.D. within the next 3 months as of the scheduled date of employment – Those who published (registered) at least one SCIE thesis or international patent within the past 3 years(Excluding policy and Technology Services fields) <ul style="list-style-type: none"> • Limited to first author or corresponding author for articles (limited to the research performance within the recent 3 years as of the end date of receipt of application forms) • Limited to main inventor for international patents that have been registered with the patent office in the United States, Japan or Europe. Any article and patent with the same substance will be regarded as a single item ○ Preferential treatment <ul style="list-style-type: none"> – Those of national merit, those eligible for employment support, those with a disability and Women in science and technology are eligible for preferential treatment if they submit evidentiary documents – Women in science and technology

☐ How to apply

- Online application for the KRISS job page (<https://kriss.recruiter.co.kr/>)
 - Period for submission: Nov 1, 2021 (Mon) ~ Nov 16, 2021 (Tue), 13:00
- ※ Korean time(GMT+9)

☐ Process

Process	Description
1st screening (Document)	<ul style="list-style-type: none">○ Evaluation of expertise and competence in each area for employment<ul style="list-style-type: none">– Evaluation items: Performance, experience, capability, and competence– Criteria for passing: Each applicant will be evaluated with a five-point scale in comprehensive consideration of evaluation items. Applicants who earn high scores among those who earn at least 80 points on average based on the aggregate points granted by each evaluator.
Online personality test	Koreans only
2nd screening (interview)	<ul style="list-style-type: none">○ Research performance seminar and personality interview<ul style="list-style-type: none">– Evaluation items: Basic attitude, thinking ability, presentation ability, potential, knowledge– Criteria for passing: Applicants who earn high scores among those who earn at least 80 points on average based on the aggregate points granted by each evaluator.

※ Applicants who reside overseas may have a video interview in the 2nd screening.

☐ Required documents

Classification	Description
Application form	<ul style="list-style-type: none">○ Self-introduction, experience statement, article and patent performance list/proof, etc. ※ Fill out through the online job posting website
2nd screening	<ul style="list-style-type: none">○ Presentation materials of research performance seminar
After 2nd screening	<ul style="list-style-type: none">○ Transcripts/certificates of graduation of all university/graduate school programs○ Proof of career/employment, copies of certificates of qualifications, certificate of military service (if applicable)○ Certificate of disability, certificate of eligibility for employment protection (if applicable)

☐ Timeline

Process	Date	Remarks
Employment notice	Nov 1 ~ Nov 16	Timeline subject to change due to the institution's circumstances
Receipt of application forms	Nov 1 ~ Nov 16	
1st screening	Late Nov	
2nd screening	Mid Dec	
Announcement of successful applicants of 2nd screening	Late Dec	
Scheduled date of employment	Jan 1, 2021	

☐ Training conditions

구 분	세부 내용
Term of contract	<ul style="list-style-type: none"> ○ Contract within one year ※ Training is possible until the end of the project in the 5th year after obtaining the maximum doctoral degree. ※ If the result of training evaluation is insufficient, the training period cannot exceed 3 years
Working conditions	<ul style="list-style-type: none"> ○ Wage: To be determined through career grading applicable to regular employees based on the institution's own evaluation criteria

□ Other information

- Failure to comply with the blind recruitment requirements during screening may result in penalties such as deductions.

– Do not write prejudice factors such as age, gender, and graduation school in the self-introduction letter (however, you can fill out prejudice factors if requested directly on the application form.)

– If it is unavoidable to write a prejudice factors in the self-introduction letter, write it as follows.

※ Ex: OO University or University A

– When submitting proof of article or patent, please mask and upload information that can infer the school you graduated from.

※ Ex: University name, university e-mail, advisor name, etc.

- No one may be employed if no applicant is found qualified after the screening process
- Candidates are responsible for any disadvantages due to omission of documents to be submitted or false entry or submission
- Acceptance and appointment may be canceled if fraudulent behavior or false entry in the application form is found during the screening process.
- If you have any questions, contact the recruitment site Q&A.
 - Email: nams@kriss.re.kr