

※ 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	Multiscale length metrology	<ul style="list-style-type: none"> • Development of fiber mode-locked laser for precision dimensional metrology • Frequency comb based ultraprecision laser interferometer 	1	A01
Advanced Instrumentation	Optical Nano Metrology	<ul style="list-style-type: none"> • Research and development of real-time nano optical metrology for key measuring instruments of semiconductor/display processes 	1	C01
	반도체측정장비2 (YS사업*)	Only Koreans can apply	1	C02
	Laser nano-engineering	<ul style="list-style-type: none"> • Instrumentation for Ultrafast laser nano-processing • Application of ultrafast laser processing for material science 	1	C03
Quantum Technology	Quantum Spin1	<ul style="list-style-type: none"> • A study on the properties measurement of various smart IT materials • Building a database of smart IT material properties analysis methods and linking then 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 	2	D01
	Quantum Spin2	<ul style="list-style-type: none"> • Development and measurement of magnetic devices, Research on magnetic dynamics, Research and development of magnetic skyrmion devices 	1	D02
	Quantum Spin3	<ul style="list-style-type: none"> • Electronic structure of quantum materials with ARPES and XPS • Spin structure with SEMPA • Development of k-IPES and spin-polarized electron source 	1	D03
	Quantum Information	<ul style="list-style-type: none"> • Design and Fabrication of Device for Superconducting Quantum Computer • Development of Metrology for Control and Measurement of Quantum State 	1	D04

Field		Assigned task	Personnel	Code
Interdisciplinary Materials Measurement	나노분광이미징1 (YS사업*)	Only Koreans can apply	1	E01
	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	E02
	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	E03
	AI Metamaterial Research2	<ul style="list-style-type: none"> • Vibration/Acosutic/Ultrasonic analysis and metamaterial design • Vibration/Acosutic/Ultrasonic experiments and data analysis 	1	E04
	나노바이오센서 (YS사업*)	Only Koreans can apply	1	E05
	EM나노 메트롴로지 (YS사업*)	Only Koreans can apply	1	E06
	In-operando analysis of photoelectronic materials	<ul style="list-style-type: none"> • Fabrication of photoelectronic materials/devices • Thin film fabrication by using atomic layer deposition • Development of in-operando analysis of photoelectronic materials 	1	E07
	극한측정연구1 (YS사업*)	Only Koreans can apply	1	E08
	Extreme physics	<ul style="list-style-type: none"> • Setup of a RETM technique by combining synchrotron X-ray instrument and high pressure and temperature system • Laser-heating setup for high pressure environments 	1	E09
	Smart devices1	<ul style="list-style-type: none"> • Collection and AI utilization of materials research data • Data-driven new materials design and development 	1	E10
	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	E11
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

Field	Assigned task	Personnel	Code
Trace analysis of gas mixture	<ul style="list-style-type: none"> • Trace analysis of gas mixture • atmospheric measurement using optical spectroscopy • data analysis 	1	F03
Medical Metrology	<ul style="list-style-type: none"> • Medical imaging (MRI, CT) processing • Phantim development for medical imaging (MRI, CT) 	1	F04
Nanomaterials measurement	<ul style="list-style-type: none"> • Development of metrology for physicochemical characteristic of nanomaterials 	1	F05
Structural Safety Monitoring	<ul style="list-style-type: none"> • Applying AI networks to structural safety monitoring • Signal processing, modelling for mechanical wave(acoustic, vibration, ultrasound) • Developing advanced technology for structural safety with meta-material 	1	F06
Measurement for Facility Safety	<ul style="list-style-type: none"> • Signal processing for developing fiber optic distributed sensors • Data analysis and experiments for measuring distributed strain and temperature 	1	F07
Policy and Strategy	Science&Technology Policy	1	G01
	National Center for Standard Reference Data	1	G02

※ 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

Classification	Description
	<p>patent within the past 3 years</p> <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 <ul style="list-style-type: none"> ○ 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: July 2, 2021 (Fri) ~ July 16, 2021 (Fri), 13:00

☐ 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	Jul 2 ~ Jul 16	Timeline subject to change due to the institution's circumstances
Receipt of application forms	Jul 2 ~ Jul 16	
1st screening	Late Jul	
2nd screening	Mid Aug	
Announcement of successful applicants of 2nd screening	Late Aug	
Scheduled date of employment	Sep 1	

☐ 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