

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

As a government-funded research institute, the Korea Research Institute of Standards and Science (KRISS) performs research on basic and original technology in all areas of science and technology. The institute follows blind recruitment practices based on the National Competency Standards, and invites applications to the position of student researcher in various fields. Interested students are encouraged to pursue their dream and passion at KRISS.

☐ Field of Recruitment and Number of Openings: 22 Persons in 18 Fields

Field		Degree Program	Tasks	No. of Openings	Code
Physical Metrology	Mechanical Metrology	Master's or higher	• Development of tactile sensors (electronic skin) for robot applications	1	A01
Chemical and Biological Metrology	Measurement technique of gas and aerosol	Master	• Development of measurement technique for secondary gases • Investigation of formation mechanism of fine particles	1	B01
	Toxic Industrial Gas Metrology	Master's or higher	• Development of analysis technology for semiconductor gases • Data processing and interpretation of analysis results	2	B02
	Advance organic analysis team	Master's or higher	• Analysis of multi-component veterinary drugs • Application of liquid chromatography	1	B03
Advanced Instrumentation	Semiconductor Integrated Metrology 1	Master's or higher	• Development of plasma measurement technology • Plasma-surface interaction technology	2	C01
	Semiconductor Integrated Metrology 2	Master	• Growth of 2D material based on CVD • Development of next-generation optoelectronic device based on 2D material	1	C02
	Semiconductor Integrated Metrology 3	Doctor	• 2D material synthesis research for the development of electronics • Development of 2D material based sensor (strain, gas, pressure)	1	C03
	Greenhouse gas metrology	Master's or higher	• Analysis of greenhouse gases	1	C04
	Atomic-scale measurement	Master's or higher	• Research on 2D materials/strongly correlated electron systems using computer codes based on DFT(+DMFT) method. • DFT(+DMFT)-based methodology/code development	1	C05
	Measurement Instrument Data Verification	Integrated	• Data Analysis and GUI Programming (Gas Measurement Instrument)	1	C06
Quantum Technology	Quantum Optics 1	Master's or higher	• Development of optical fiber-based quantum light source • Research on applications to photonic quantum networking	1	D01

Field		Degree Program	Tasks	No. of Openings	Code
	Quantum Optics 2	Master's or higher	<ul style="list-style-type: none">• Development of Single photon Resonant generator using meta-materials• Development of Single photon fiber coupling technic	1	D02
Interdisciplinary Materials Measurement	Operando Methodology and Measurement 1	Master	<ul style="list-style-type: none">• Synthesis and surface modification of 2D materials• Development and measurement of flexible semiconductor electronics	1	E01
	Operando Methodology and Measurement 2	Doctor	<ul style="list-style-type: none">• Epitaxial growth of 2D materials using CVD• Development of X-ray methodology for 2D materials	1	E02
Safety Measurement	Nanosafety	Master's or higher	<ul style="list-style-type: none">• Development of nanomaterial safety measurement technology using three-dimensional cell culture method	2	F01
	Bio-imaging 1	Master's or higher	<ul style="list-style-type: none">• Development of biomolecule detection technology based on nanostructure• Development of theranostic system based on functional nanomaterials	1	F02
	Bio-Imaging 2	Master's or higher	<ul style="list-style-type: none">• Development of Biological Mass Spectrometry Technology• Mass Spectrometry Imaging Research of Biological Tissues	1	F03
	Structural Health Monitoring	Master's or higher	<ul style="list-style-type: none">• Development of fiber optic sensors for structural health monitoring• Evaluation of structural status and classification of structural damages using artificial intelligence and data processing	2	F04

<Note 1> Applications in two or more fields from the same applicant not accepted

- Each applicant may apply only to one field in the 2023 KRISS Student Researcher Recruitment. Appointment as student researchers may be withdrawn if applications have been submitted in two or more fields.

☐ Eligibility and Preferential Treatment

Classification	Description
General guidelines	<ul style="list-style-type: none"> ○ Requirements <ul style="list-style-type: none"> – One who does not fall under any grounds for disqualification from employment at KRISS <ul style="list-style-type: none"> • One who does not fall under any of the subparagraphs in paragraph (1) of Article 33 (Grounds for Disqualification) of the State Public Officials Acts • One whose right to vote has not been suspended or forfeited pursuant to statutes • One who does not fall under Article 76 (1) of the Military Service Act • One who has not been involved in corrupt or fraudulent employment at

Classification	Description
	<p>other research institutes or public institutes</p> <ul style="list-style-type: none"> • One who is not a public official dismissed for corruption pursuant to the Act on the Prevention of Corruption and the Establishment and Management of the Anti-corruption and Civil Rights Commission – One who is currently enrolled in a master's or doctoral program (excluding students on leave and students who have completed their program but are not registered as researchers) (or students expecting admission on or after the date of appointment in the recruitment notice) ※ Student researchers must submit certificate of enrollment every semester or proof of researcher registration <p>○ Preferential treatment</p> <ul style="list-style-type: none"> – Preferential treatment given to persons eligible for employment assistance (including persons of distinguished service), persons with disability, and female scientists and engineers* pursuant to related laws and internal regulations * For female scientists and engineers, the assigned tasks must be related to their major <p>Criteria for preferential treatment (preferential treatment provided in category with greater benefits if two or more categories are applicable)</p> <ol style="list-style-type: none"> 1. (Disabled, female scientist/engineer, holder of professional certificate) Additional 5% awarded to full score of 100 points in each screening round 2. (Veteran) Additional 5% awarded to applicants falling under subparagraphs 3 and 5 of Article 29 (1) of Act on the Honorable Treatment of and Support for Persons of Distinguished Service to the State, and 10% to those falling under subparagraphs 1, 2, and 4 of Article 29 (1) 1 of the same Act <p>※ However, successful applicants who have received additional scores for distinguished services shall not exceed 30% of total persons recruited (Article 31 (3) of Act on the Honorable Treatment of and Support for Persons of Distinguished Service to the State)</p> <p>※ Preferential treatment is not provided if applicants do not specify their eligibility for preferential treatment in the application form or fail to submit supporting documents after the announcement of application results</p>

□ How to apply

- Method: Online application on the KRISS recruitment website (<https://kriss.recruiter.co.kr/>)
- Application period: Jan. 10th, 2023 (Tue) ~ Jan. 25th, 2023 (Wed), 17:00
 - ※ Korean time(GMT+9), Not accepted after deadline

☐ Screening process

Process		Description
Round 1	Document	<ul style="list-style-type: none"> ○ Evaluation of expertise and competence in field of recruitment based on application documents <ul style="list-style-type: none"> – Evaluation items: Experience, capability, competence, etc. – Passing criteria: High-scoring applicants from among those with an average combined score of 80 or higher, where each evaluator assesses applicants in consideration of evaluation items on a five-point scale – No. of applicants selected: three times the expected number of new hires
Online personality test		<ul style="list-style-type: none"> ○ Online personality test conducted for applicants who pass the first round <ul style="list-style-type: none"> ※ Applicants who do not complete the test are disqualified from the second round
Round 2	Interview	<ul style="list-style-type: none"> ○ Personality interview: Evaluation of fit with organization, character, etc. <ul style="list-style-type: none"> – Evaluation items: Basic attitude, thinking ability, presentation skills, potential, knowledge – Passing criteria: High-scoring applicants from among those with an average combined score of 80 or higher – No. of applicants selected: Same as the expected number of new hires

<Note 2> Foreign applicants are exempt from the online personality test

- Foreign applicants shall proceed to the second round without undergoing the online personality test since the results may not be an accurate indicator given their limited Korean proficiency

☐ Required documents

Classification	Description
When submitting application form	<ul style="list-style-type: none"> ○ Application documents (application form, self-introduction, resume, list/proof of publications and patents, etc.) ※ Fill out through the online recruitment website
After interview	<ul style="list-style-type: none"> ○ Transcripts and degree certificates of all universities and graduate schools specified in application documents (degree, education) ○ Copies of certificates of qualification, certificate of military service (if applicable) ○ Certificate of disability, certificate of eligibility for employment protection (if applicable) ※ Used to verify authenticity; not provided to screening committee

☐ Timeline

Process	Date	Remarks
Recruitment notice	Jan. 10th ~ Jan. 25th, 2023	Timeline subject to change depending on internal/external circumstances
Receipt of application forms	Jan. 10th ~ Jan. 25th, 2023	
Screening round 1	Late Jan., 2023	
Online personality test	Early Feb., 2023	
Screening round 2	Mid Feb., 2023	
Announcement of successful applicants	Late Feb., 2023	
Scheduled date of employment	Mar. 1st, 2023	

☐ Training conditions

Classification	Description
Term of contract	<ul style="list-style-type: none"> ○ One-year basis ※ Training period of student researchers under a work contract with KRISS shall not exceed the time limit of study prescribed by the affiliated graduate school ※ Training period shall be no more than five years, seven years, and nine years from the date of admission to a master's program, doctoral program, and integrated program, respectively (excluding period of leave of absence)
Training conditions	<ul style="list-style-type: none"> ○ Level of experience and wages determined based on criteria set by the institute ○ Covered by four major insurance schemes ○ Grounds for work contract termination (resignation) <ul style="list-style-type: none"> – End of term – Failure to register as researcher after graduation, withdrawal, dismissal or program completion at the affiliated graduate school – Leave of absence from the affiliated graduate school ○ Possible disadvantages due to signing of work contract <ul style="list-style-type: none"> – Limitations in receiving BK21 Plus scholarships of the Ministry of Education – Obligation to return tuition according to Korea Student Aid Foundation's standards for mandatory repayment of tuition after employment – Where applicants are performing alternative military service as technical research personnel, they may face cancellation of appointment or limitations in signing of work contract depending on whether they are approved by the affiliated graduate school (check possibility of dispatch and job change with affiliated graduate school; new transfer not permitted) – Restrictions involving other work contracts, etc.

☐ **Other information**

- Failure to comply with blind recruitment requirements may result in penalties such as point deduction
- The position may not be filled if none of the applicants is found qualified after screening
- Applicants shall assume responsibility for any disadvantages caused by omission and/or falsification of documents
- Acceptance and appointment may be withdrawn if corrupt behavior or falsification of information is found during screening
- Applicants may be waitlisted to fill vacancies that may arise from the withdrawal or rejection of an offer
- Supporting documents (original copies) shall be returned to applicants who file a request after being notified of application results pursuant to Article 11 of the Fair Hiring Procedure Act
- Applicants who submit proof of eligibility for employment protection or disability shall receive preferential treatment in accordance with related laws
- For further inquiries, use the Q&A page of the recruitment website
 - jeseo@kriss.re.kr Recruitment coordinator, Office of Human Resources Management, Korea Research Institute of Standards and Science