

※ 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: 15 Persons in 14 Fields

Field		Degree Program	Tasks	No. of Openings	Code
Chemical and Biological Metrology	Advance organic analysis	Master	• Analysis of multi-component veterinary drugs	1	A01
Advanced Instrumentation	Greenhouse gas metrology1	Master's or higher	• Development of greenhouse gas measurement standards and technology • Development of greenhouse gas measurement data processing technology	2	B01
	Greenhouse gas metrology2	Master's or higher	• Pulsewidth and fiber-amplifier optimization for Near-IR short pulse generation • Optimization of spectral broadening technology for near-IR short pulse generation	1	B02
	Greenhouse gas metrology3	Master's or higher	• Molecular spectroscopy using UV/VIS/Mid-IR optical frequency comb (OFC) sources • Study of atmospheric chemistry (GHGs, Short-lived climate pollutants, important radicals) using various OFC spectroscopies	1	B03
	Semiconductor Integrated Metrology	Master	• 2D material synthesis research for the development of electronics • Development of 2D material based sensor	1	B04
Quantum Technology	Hybrid Quantum Systems1	Master's or higher	• Development of active nanophotonics devices based on thin-film lithium niobate	1	C01
	Hybrid Quantum Systems2	Master's or higher	• Development of nanophotonic resonators and nanophotonic circuits based on silicon-on-insulator platforms	1	C02
Interdisciplinary Materials Measurement	Hyperspectral Nano-imaging	Doctor	• Analyzing nanoscale carrier dynamics of low-dimensional material and device by developing time-resolved spectroscopic nano-imaging	1	D01
	Smart devices1	Master's or higher	• Development of electrode materials for Lithium ion battery/water-splitting catalyst • Characterization of energy materials (anode-free Li battery, electrocatalysts)	1	D02

Field	Degree Program	Tasks	No. of Openings	Code
Smart devices2	Master's or higher	<ul style="list-style-type: none"> • Synthesis/characterization/developments of advanced cathode materials for next-generation rechargeable battery • Characterization/development of electrode/electrolyte interface for all solid-state batteries 	1	D03
Smart devices3	Master's or higher	<ul style="list-style-type: none"> • Synthesis of 2D materials based on chemical vapor deposition/liquid exfoliation methods • Fabrication and characterization of gas sensor devices 	1	D04
Smart devices4	Master's or higher	<ul style="list-style-type: none"> • Development of electrocatalysts for hydrogen/oxygen evolution reaction using hydrothermal/electrodeposition • Characterization of electrocatalytic performance and development of anion exchange membrane water electrolysis (AEMWE) 	1	D05
Low-Dimensional Material	Master's or higher	<ul style="list-style-type: none"> • Precision measurement of physical properties of 2D semiconductor materials • Fabrication and characterization of high-performance/multifunctional electronic devices using 2D semiconductor materials 	1	D06
Safety Measurement	Material Compatibility to Hydrogen Facility	Master's or higher <ul style="list-style-type: none"> • Evaluation of hydrogen embrittlement of materials/parts for high pressure hydrogen application • Development of life prediction technology for materials/parts for high-pressure hydrogen application 	1	E01

<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 other research institutes or public institutes • 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

Classification	Description
	<ul style="list-style-type: none"> – 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 ○ Preferential treatment <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 <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>Criteria for preferential treatment (preferential treatment provided in category with greater benefits if two or more categories are applicable)</p> </div> <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 <ul style="list-style-type: none"> ※ 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) <hr/> <ul style="list-style-type: none"> ※ 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

☐ How to apply

- Method: Online application on the KRISS recruitment website
(<https://kriss.recruitment.kr/>)
- Application period: May 10th, 2023 (Wed.) ~ May 25th, 2023 (Thu.), 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* <ul style="list-style-type: none"> * If the no. of applicants is less than or equal to the expected number of new hires, the recruitment process could proceed without Round 1(Document Screening).
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.) <ul style="list-style-type: none"> ※ 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) <ul style="list-style-type: none"> ※ Used to verify authenticity; not provided to screening committee

☐ Timeline

Process	Date	Remarks
Recruitment notice	May 10th ~ May 25th, 2023	Timeline subject to change depending on internal/external circumstances
Receipt of application forms	May 10th ~ May 25th, 2023	
Screening round 1	Early Jun., 2023	
Online personality test	Early Jun. ~ Mid Jun., 2023	
Screening round 2	Mid Jun., 2023	
Announcement of successful applicants	Late Jun., 2023	
Scheduled date of employment	Jul. 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
- In order to strengthen the competitiveness of KRISS and attract talent with job competency, the name of the school, the name of the laboratory, and the name of the advisor could be collected and utilized
- For further inquiries, use the Q&A page of the recruitment website
 - jiseung.yoo@kriss.re.kr Recruitment coordinator, Office of Human Resources Management, Korea Research Institute of Standards and Science