



Ministry of Science and ICT



National Research Council
of Science & Technology



2026 Korean National Labs
Global Job Fair

September 11-14, 2026 | LA•San Diego

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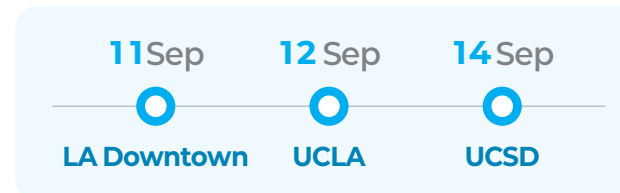


Introducing Korean National Labs, connecting outstanding talent with new career and research opportunities, and fostering networking and collaboration

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Global Job Fair Schedule

Global Job Fair Schedule



Objective

To attract outstanding early- and mid-career researchers in science and technology from Korea and abroad, advance national strategic technologies through government-funded research institutes, and enhance Korea's global competitiveness.



Program



Global Job Fair



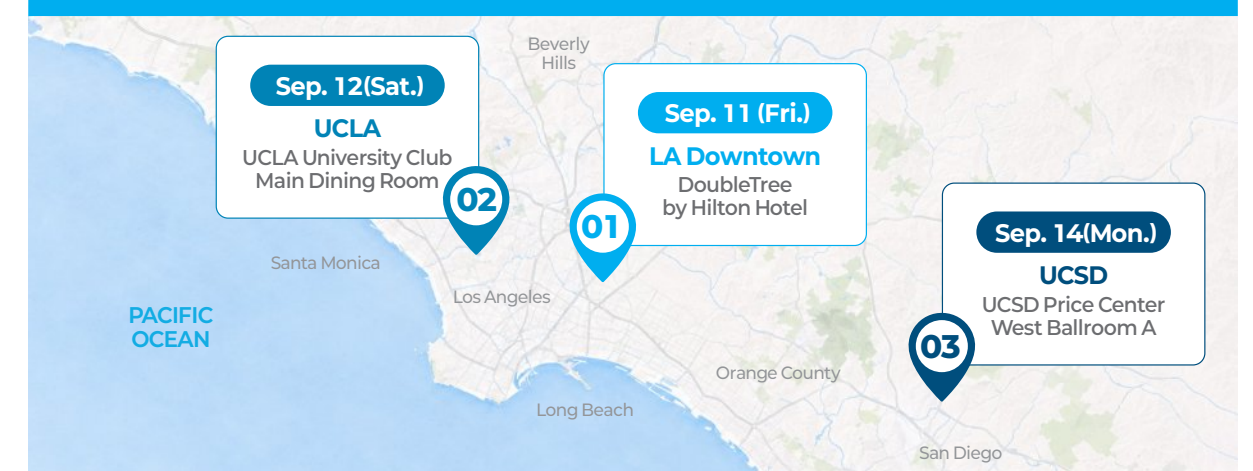
Talk Concert



Networking Dinner



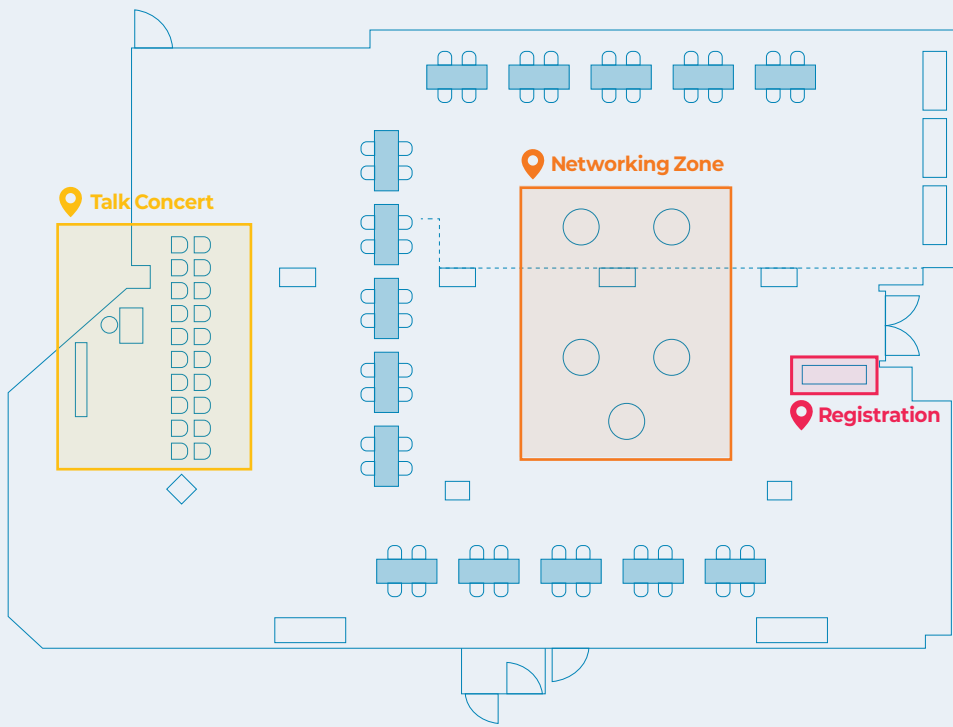
venue Information



LA Downtown

📍 DoubleTree by Hilton Hotel Los Angeles Downtown – Thousand Cranes

Layout



Schedule

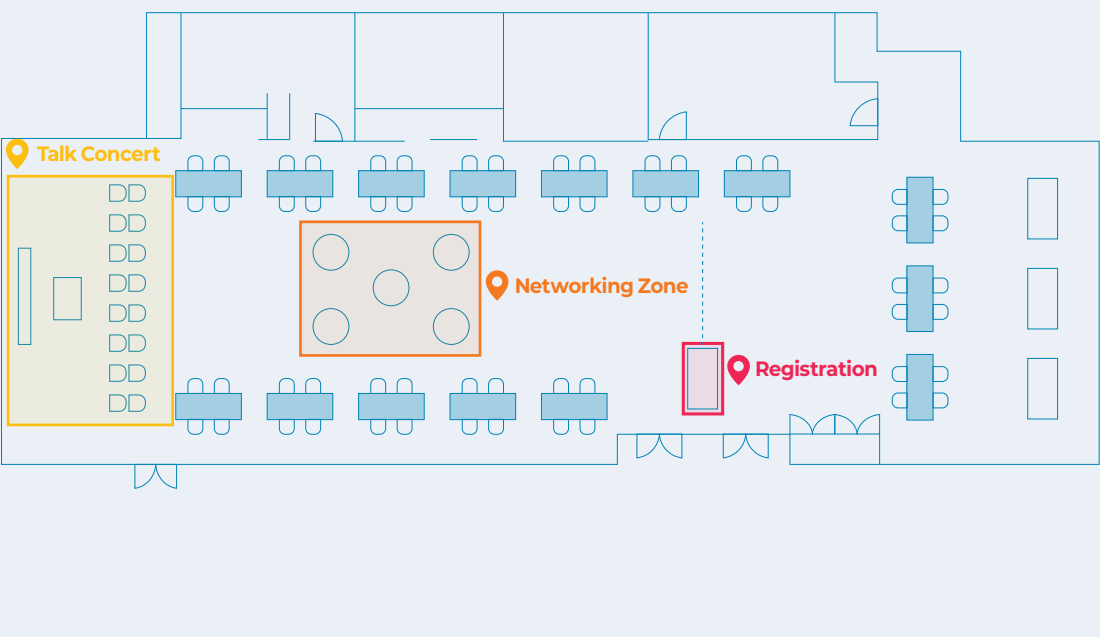
Time	Program
12:30	Registration
14:00-15:00	Talk Concert
13:00-17:00	Global Job Fair

※The schedule may be subject to change depending on event circumstances.

UCLA

📍 UCLA University Club Main Dining Room

Layout



Schedule

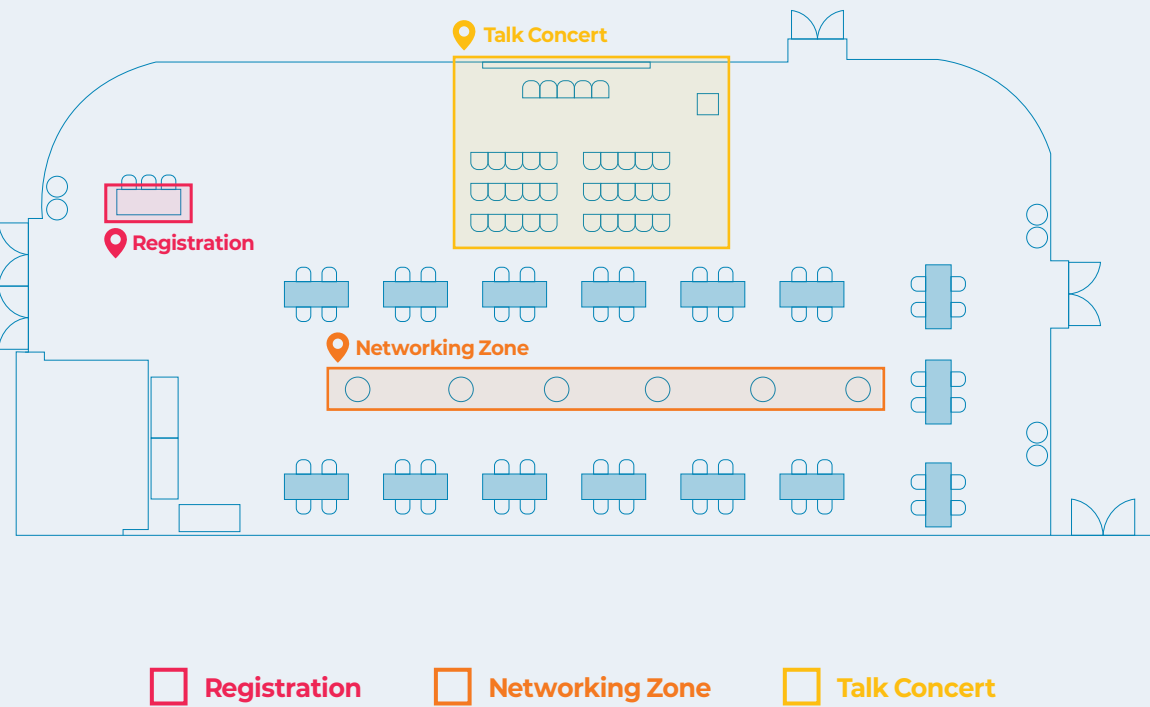
Time	Program
12:30	Registration
14:00-15:00	Talk Concert
13:00-17:00	Global Job Fair

※The schedule may be subject to change depending on event circumstances.

UCSD

UCSD Price Center West Ballroom A

Layout



Schedule

Time	Program
12:30	Registration
14:00-15:00	Talk Concert
13:00-17:00	Global Job Fair

※The schedule may be subject to change depending on event circumstances.

2026 Korean National Labs
Global Job Fair

Major Matching Quick Guide

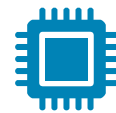


Major Matching Quick Guide

Identify the research areas related to your major, explore participating institutions by area, and visit each institution's profile page for more detailed information.



01 Semiconductor and Display



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02 Secondary Battery



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03 Advanced Mobility



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04 Next-Generation Nuclear Power



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05 Advanced Biotechnology



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06 Aerospace and Marine Technology



ETRI

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KIGAM

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KAERI

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KIMS

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07 Hydrogen



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KIER

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KERI

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KRiCT

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KFE

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08 Artificial Intelligence (AI)



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KRiCT

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KIT

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KIOM

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KFE

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09 Cybersecurity



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ETRI

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NSR

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KRI

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10 Next-Generation Communications



ETRI

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NSR

» P. 30

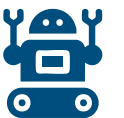
KRI

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11 Advanced Robotics and Manufacturing



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12 Quantum Technology



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Research Institution Profiles

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PROFILE



National Research Council of Science and Technology(NST)

Realizing a human-centered society through
end-to-end science and technology innovation

- ✓ ConvergenceResearch
- ✓ StrategicPlanning
- ✓ ImpactDissemination
- ✓ IssueResolution
- ✓ RiskBasedInternalAudit



Website QR

Information

Main Contact	+82-44-287-7000
Website	https://www.nst.re.kr/www/index.do
Purpose of Establishment	Supporting and fostering Korean National Labs(GRIs) to advance national R&D policies and drive the growth of the knowledge economy
Main Responsibilities	Fostering a research environment that empowers researchers with autonomy and accountability
Planned Recruitment	(Administrator) 2 positions (Researcher/Engineer) 15 positions

Contact

Department	HR Planning Team	Management Support Team
Phone	+82-44-287-7417	+82-44-287-7180
E-mail	chj77@nst.re.kr	gawwk@nst.re.kr



PROFILE



Korea Institute of Science and Technology (KIST)

Global Top-Tier Excellence, World Class KIST

- ✓ Semiconductor and Display
- ✓ Secondary Battery
- ✓ Advanced Biotechnology
- ✓ Hydrogen
- ✓ Artificial Intelligence (AI)
- ✓ Advanced Robotics and Manufacturing
- ✓ Quantum Technology

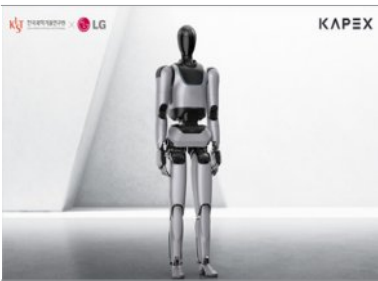


Website QR

Key Achievements



Out-licensing of a first-in-class dementia drug candidate to Italy's Angelini Pharma, Korea's largest at ₩503.7B



Korean humanoid 'KAPEX' jointly developed by KIST and LG (technology transfer to LG Electronics)



Field Demonstration of high-temperature electrolysis (SOEC) hydrogen-production facility (with Samsung E&A)

Research & Project List

Brain Science Research Program

Advancing brain-immune ecosystem research to develop innovative technologies for overcoming intractable brain diseases.

Next-Generation Semiconductor Research Program

Securing game-changing technologies in AI semiconductors and quantum computing to lead the next generation of core information technologies.

Bio-Medical Convergence Research Program

Pursuing AI and big data-driven, hyper-connected personalized biomedical engineering translational research and commercialization for next-generation healthcare.

AI & Robotics Research Program

Building a safe and secure society for the public through the development of trustworthy AI and robotics technologies.

Clean Hydrogen Convergence Research Program

Developing integrated hydrogen production, storage, and utilization technologies to realize a practical and sustainable hydrogen economy.

Advanced Materials & Systems Research Program

Developing original and convergence technologies based on advanced materials and systems to secure new growth engines for the nation's future.

Climate & Environment Research Program

Leading carbon-negative innovation to mitigate climate-driven disasters and accelerate the transition toward a sustainable, low-carbon society.

Sustainable Future Technology Research Program

Developing breakthrough non-lithium secondary battery technologies to overcome the limitations of current commercial batteries.

Information

Main Contact	+82-2-958-5114
Website	https://kist.re.kr/ko/index.do
Purpose of Establishment	A globally-esteemed research institute with outstanding expertise, committed to solving challenges for the benefit of the nation and society
Main Responsibilities	Provide solutions to national and societal problems that only KIST can and should address
Planned Recruitment	00 positions

Contact

Department	Human Resources Management Team
Phone	+82-2-958-6131
E-mail	recruit@kist.re.kr



PROFILE



National Institute of Green Technology (NIGT)

Greenovate Korea, ACT with NIGT

- ✓ Green Climate Technology
- ✓ Technology Policy
- ✓ International Cooperation
- ✓ Information production



Website QR

Information

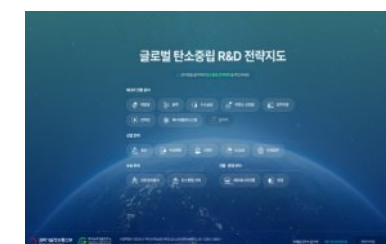
Main Contact	+82-2-3393-3900
Website	https://nigt.re.kr
Purpose of Establishment	Support for green technology R&D policy development and international collaboration
Main Responsibilities	- Support the development of national green technology R&D policies - Promote international cooperation and green technology transfer - Analyze green technology trends and compile relevant statistics - Conduct foresight research on emerging green technologies

Contact

 Department	Administrative Management Team
 Phone	+82-2-3393-3969
 E-mail	recruit@nigt.re.kr



Key Achievements



Development of strategic maps across 16 carbon-neutrality fields and launch of an integrated web-based R&D platform



Technology innovation roadmaps (Solar PV and Zero-Energy Buildings) and contributions to the development of CCUS legislation



Developing climate policies and promoting circular economy solutions for waste and batteries in Cambodia

Research & Project List

Policy Measures to Promote Corporate Adoption of Climate Technologies

Supporting Korean companies in adopting climate technologies and improving regulations based on policy and market analysis to advance carbon neutrality

Development of a Climate Technology Scoreboard for Policy Support

Building a data-driven scoreboard to assess climate technology policy goals, private investment, and industry trends and support informed decision-making.

Roadmap for International Cooperation in Carbon Neutrality R&D

Developing and piloting an implementation roadmap for carbon-neutral technology cooperation to advance strategies and strengthen global competitiveness and leadership.

Climate Technology Demonstration and Deployment through Horizon Europe

Building a strategic entry model and support platform focused on Horizon Europe and other key EU funding programs to help Korean climate tech enter the European market.

Climate Technology Strategies for NDC Achievement through Carbon Markets

Bridging methodology gaps to convert Korean climate technologies into carbon credits and developing strategies for Article 6 carbon markets to support NDC achievement.

Policy and Cooperation Models for AI-Enabled Climate Technology Development

Defining and classifying AI-climate technologies, analyzing global trends and policies, and identifying promising technologies and strategies to foster their development in Korea.

Data-Driven ROK-ASEAN Cooperation in Hard-to-Abate Sectors

Developing Korea-ASEAN climate technology cooperation by identifying ASEAN demand, assessing Korean capabilities, matching technologies with needs, and linking funding.

Data Analysis and Utilization System for Climate Technology Innovation

Building a data system for climate technology innovation by producing R&D statistics and analysis and enhancing data platforms to support policy use.

Climate Technology International Cooperation Strategy Platform

Enhancing tailored climate technology platforms to support R&D cooperation with advanced countries and expand strategic maps for green transitions in developing countries.

PROFILE



Korea Basic Science Institute (KBSI)

World-class open research platform to drive scientific advancement and growth of research industries

- ✓ Semiconductor and Display
- ✓ Secondary Battery
- ✓ Advanced Biotechnology
- ✓ Artificial Intelligence (AI)



Website QR

Information

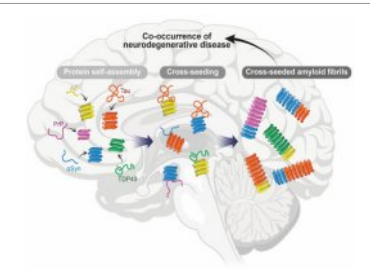
Main Contact	+82-42-865-3500
Website	https://www.kbsi.re.kr
Purpose of Establishment	Carry out R&D on research facilities, equipment, and analytical science technologies, as well as research support and collaborative research, to promote basic science as the foundation for national science and technology advancement.
Main Responsibilities	· Establishment and Operation of Research Infrastructure · Development of Analytical Technology · Research Equipment Development · Comprehensive Management of National Research Facilities and Equipment
Planned Recruitment	8 positions

Contact

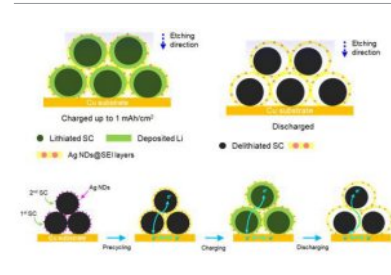
Department	Department of Human Resources Development
Phone	+82-42-865-3531
E-mail	ls1005@kbsi.re.kr



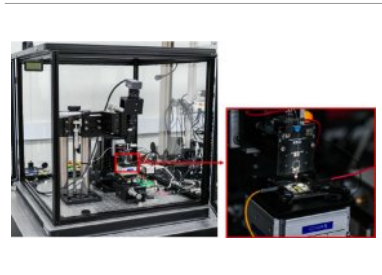
Key Achievements



Identifying Therapeutic Targets and Uncovering Molecular Mechanisms for Intractable Brain Diseases



Advancing Battery Degradation Analysis and Safety through Interfacial Reaction Analysis



Developing and Commercializing Advanced Equipment for Semiconductor Thermal Management and Reliability

Research & Project List

Operation of National Research Facilities and Equipment

Advance and facilitate the shared use of national large-scale research facilities and equipment through dedicated infrastructure management.

Development of Environment-Adaptive Smart Battery Technologies

Sustainable energy storage technologies for a safer and more resilient energy future.

Development of Early Detection Solutions for Pancreatic Cancer

Blood omics-based diagnostic assays for the early detection of pancreatic cancer.

Development of Power Semiconductors for High-Power Energy Systems

Advanced Ga₂O₃-based semiconductor materials and devices for next-generation power systems.

Development of a Physical AI-Based Autonomous Operation System for Large-Scale Accelerators

AI-powered autonomous accelerator operation for enhanced research productivity.

Construction of a Multipurpose Synchrotron Radiation Facility

Establish a world-class multipurpose synchrotron radiation facility to advance industrial applications and strengthen fundamental science and technology capabilities.

PROFILE



Korea Research Institute of Bioscience and Biotechnology

A Global Leader Dedicated to Enhancing Healthy Life and Developing Bioeconomy

✓ Advanced Biotechnology

✓ Artificial Intelligence (AI)



Website QR

Information

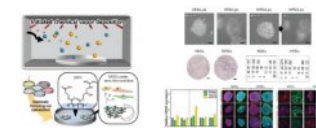
Main Contact	+82-42-860-4114
Website	https://www.kribb.re.kr
Purpose of Establishment	- Develop breakthrough technologies in biological sciences and lead bioeconomy - Establish and support national infrastructure for biological sciences R&D at home and abroad
Main Responsibilities	- Develop and disseminate sophisticated core technology in bioengineering - Support public infrastructure for bioengineering R&D both at home and abroad
Planned Recruitment	10-30 researchers annually

Contact

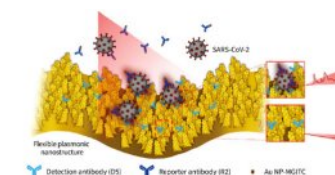
 Department	Human Resources Department
 Phone	+82-42-860-4029
 E-mail	recruit@kribb.re.kr



Key Achievements



Development of a Personalized Regenerative Medicine Platform Using Organoids



Development of Technologies to Overcome Hard-to-Treat Cancers Using a Miniaturized Antibody Technology Platform



Establishment and Validation of a Non-Human Primate Preclinical Evaluation Infrastructure for Brain-Computer Interfaces

Research & Project List

Synthetic Biology and Bioengineering Research

Pioneering the future of bio-manufacturing through cutting-edge synthetic biology and next-generation biofoundry platforms

Nucleic Acid Therapeutics / Chemical Biology

Establishing platforms for small molecule natural products and mRNA vaccines and developing bioactive materials and mRNA vaccines for treating intractable diseases

AI & Biomedical Research

Enabling people to achieve a healthy life, by proposing ways to overcome incurable diseases, developing platform technologies for novel drug modalities, and investigating innovative technologies for personalized medicine through AI-bio convergence.

Biomaterials and Biological Resource

Contributing to the industrial outcomes of biotechnology by securing world-class biological research resources, including microorganisms, and developing high-value-added functional biomaterials

National Challenges Research

Pioneering integrated bio-platform technologies for prevention, diagnosis, and treatment to address future national challenges (Infectious disease, Environmental diseases, Biodefense, Stemcell convergence...)

Bioinformation / BT-IT

To provide IT infrastructures to facilitate data-driven research in biology (Providing IT infrastructures for collecting, distributing, and utilizing data generated from biological research, Establishing national cluster of biological resources)

National Bio-Infrastructure

Contributing to the creation of research achievements through advanced operation of bio-infrastructure and collaborative use at home and abroad.

Aging convergence research

Development of molecular diagnostic methods for measuring the biological age of Koreans, integrated aging treatment technologies, and digital technologies for delaying aging

PROFILE



Korea Institute of Science and Technology Information

“Leading the Transformation of R&D” with AI and HPC

- ✓ Artificial Intelligence (AI)
- ✓ Cybersecurity
- ✓ Quantum Technology
- ✓ High-Performance Computing (HPC)
- ✓ Data Science
- ✓ Research Networks



Website QR

Information

Main Contact	+82-42-869-1234
Website	https://www.kisti.re.kr
Purpose of Establishment	KISTI was established as Korea’s leading national research institute specializing in science and technology information, with the mission of contributing to the advancement of national science and technology and the development of industry
Main Responsibilities	1. Comprehensive collection, analysis, and provision of science, technology and industry-related information 2. Leading the establishment and operation of national high-performance computing infrastructure 3. R&D and consulting on technologies and policies related to information, analysis, management, and dissemination
Planned Recruitment	7

Contact

Department	Dept.of Talent Management
Phone	+82-42-869-0960
E-mail	recruit@kisti.re.kr



Key Achievements

Development of Quantum Cryptographic Communication Technology for the Paradigm Shift in National Research Ecosystem Security

Building Core Capabilities in Science and Technology-Specialized Generative AI for Korea’s National AI Development

Expansion of the AI-Based Technology Commercialization Analysis Platform ‘APOLLO’ to Overcome the Public R&D ‘Valley of Death’

Research & Project List

Establishment and Operation of Computing Infrastructure

Supporting advanced research through the establishment and operation of world-class national R&D infrastructure

Establishment and Operation of Data Platform Infrastructure

Completing a strategic system for establishing, sharing, and utilizing core national science and technology information and data

Mission-Driven National Strategic Technology R&D

Strengthening capabilities to perform core missions by securing national strategic technologies such as AI, HPC, and quantum computing, and contributing to realizing South Korea as one of the top 5 science and technology superpowers

Mission-Driven Public-Centric R&D

Contributing to improving the safety and wellbeing of citizens by developing HPC- and data-based solutions that can directly resolve national and social issues

PROFILE



Korea Institute of Industrial Technology
FROM MANUFACTURING TO VALUAFACTURING

- ✓ Semiconductor and Display
- ✓ Secondary Battery
- ✓ Artificial Intelligence (AI)
- ✓ Hydrogen
- ✓ Advanced Robotics and Manufacturing



Website QR

Information

Main Contact	+82-41-589-8114
Website	https://www.kitech.re.kr
Purpose of Establishment	To advance industrial technology and strengthen the competitiveness of Korea's manufacturing industry through R&D, technology commercialization, and support for SMEs and MMEs.
Main Responsibilities	KITECH develops manufacturing technologies, supports technology commercialization, fosters regional industries, and promotes global R&D cooperation.
Planned Recruitment	A total of 9 positions (7 research)

Contact

Department	Human Resource Management Office
Phone	+82-41-589-8614
E-mail	shel10@kitech.re.kr



Key Achievements



KITECH advances intelligent manufacturing through AI, robotics, digital processes, and flexible production technologies for future industries.



KITECH develops human-centric robots, autonomous manufacturing systems, and safety technologies that improve work and quality of life.



KITECH drives carbon neutrality through low-carbon energy, emissions control, resource circulation, and green manufacturing technologies.

Research & Project List

Adaptive Manufacturing

Develops intelligent manufacturing technologies that rapidly respond to supply chain changes and future industrial demands.

Human-Centric Manufacturing

Creates products and manufacturing technologies that enhance user convenience, safety, and quality of life.

Flexible Manufacturing

Enables highly flexible, digital, and AI-driven production systems for customized and small-batch manufacturing.

Hydrogen & Carbon Neutrality

Advances hydrogen technologies and low-carbon manufacturing solutions for sustainable industrial growth.

Future Mobility

Develops advanced materials, components, and manufacturing technologies for electric and next-generation mobility.

Resource Circulation

: Develops eco-friendly processes and recycling technologies to promote circular manufacturing systems.

Human-Centric Robotics

Develops collaborative robots and autonomous manufacturing systems for safer and more efficient workplaces.

Global R&D Collaboration

Expands international research partnerships and supports global innovation through collaborative R&D programs.

PROFILE



Electronics and Telecommunications Research Institute(ETRI)

Innovation Leader Shaping a Human-Centered Future through AI and DX

- ✓ Semiconductor and Display
- ✓ Artificial Intelligence (AI)
- ✓ Aerospace and Marine Technology
- ✓ Cybersecurity
- ✓ Next-Generation Communications
- ✓ Advanced Robotics and Manufacturing



Website QR

Information

Main Contact	+82-42-860-6114
Website	https://www.etri.re.kr/kor/main/main.etri
Purpose of Establishment	Advancing Core and Emerging Technologies for Innovation, National Growth, and Social Progress
Main Responsibilities	Technology R&D, Developing ICT Talent, Strategic Planning for National R&D Policy, Leading International Standardization Activities, R&D Support for SMEs
Planned Recruitment	00

Contact

Department	Human Resources Department Planning Section
Phone	+82-42-860-4894
E-mail	job@etri.re.kr



Key Achievements



200Gbps 6G Wireless Transmission
(10x faster than 5G)



Brazil DTV+ National Standard Adopted (Presidential Decree, Aug. 2025)



World-First 360° Omnidirectional Tactile Robot Finger Module

Research & Project List

Development of Core and Foundational AI Technologies for Advanced & Ubiquitous Intelligence

Development of Next-Generation AI & AI Safety Technologies, AI Cloud Computing Technologies, AI-Specialized Semiconductors, and AI Cybersecurity Technologies

Development of Physical AI Systems for Human Coexistence & Embodiment

Development of AI Robot Intelligence Systems, AI Mobility System Technologies, and On-Device AI Technologies information and data

Development and Implementation of 3D Communication Systems for Intelligence Integration & Spatial Expansion

Development of 6G AI Network Technologies, 6G Low Earth Orbit (LEO) Satellite Communication Systems

Development of Spatial-Convergence Technologies for Expanded Experience & Real-Virtual Synchronization

Development of Real-Time 3D Spatial Media Systems, Spatial-Convergence Interactive Service Technologies

Development and Application of Public & Industry-Specific ADX (AI Digital Transformation) Technologies to Strengthen National Competitiveness

Development & Application of ADX Technologies in the Public Sector, Development & Application of ADX Technologies in the Industrial Sector

ICT Future Challenges & Creative Basic R&D

Development of Core Quantum Technologies, Creative Basic R&D

PROFILE



National Security Research Institute

A Global Leading Security Research Institute for Secure Digital Nation

- Artificial Intelligence (AI)
- Cybersecurity
- Next-Generation Communications
- Quantum Technology

Information

Main Contact	+82-42-870-2001
Purpose of Establishment	Contribute to national security through research and development and technical support in the field of national security technology
Main Responsibilities	National research and development of cybersecurity technologies to establish a robust cybersecurity system Development of key cryptographic technologies for the protection of classified national information in diplomacy and national security Development of infrastructure protection technologies for national security and the stability of public life

Contact

Department	Human Resource Management Section
Phone	+82-42-870-2323
E-mail	recruit@nsr.re.kr



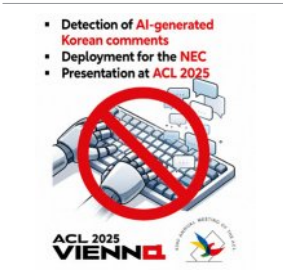
Key Achievements



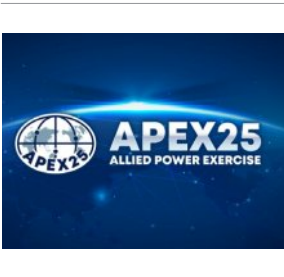
Establishment of the nation's first standard(KS) for testing and verifying quantum cryptography equipment



Development of top-3 global national digital forensic tools leading K-forensic technical standard



Development of a countermeasure technique against AI-driven cyber opinion manipulation



Development of a Korea-led international cyber exercise framework and platform

Research & Project List

Development of digital forensic and anti-forensic technologies for national applications

Development of standard digital forensic investigative tools for the digital judicial operation of law enforcement agencies

Threat response and security verification technology for QKD

Development of security testing and verification technologies of commercial QKD systems

PROFILE



Korea Institute of Civil Engineering and Building Technology(KICT)

A Global Research Institute Building the Future Through Science and Technology Innovation

- ✓ Disaster Resilience
- ✓ Advanced Robotics & Mobility
- ✓ Future Energy & Nuclear Technologies
- ✓ Carbon Neutrality
- ✓ Aerospace & Maritime Technologies
- ✓ Artificial Intelligence (AI)



Website QR

Information

Main Contact	+82-31-910-0114
Website	https://www.kict.re.kr/
Purpose of Establishment	Driving innovation in the construction industry through the development and dissemination of original technologies in construction and land management, thereby contributing to an improved quality of life and sustainable national growth
Main Responsibilities	- Leading next-generation construction R&D and supporting national policies - Enhancing national infrastructure safety and developing disaster resilience technologies - Innovating smart, AI-driven construction and eco-friendly technologies for carbon neutrality - Managing national construction standards and performing statutory testing and certification for material quality - Supporting construction enterprises for global expansion and fostering the industry ecosystem
Planned Recruitment	Research, Technical, and Administrative Positions

Contact

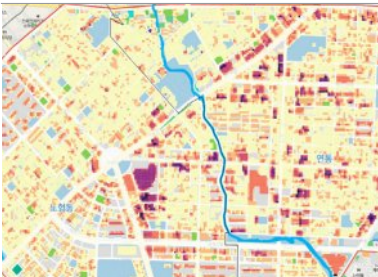
Department	Human Resources Division
Phone	+82-31-910-0446
E-mail	recruit@kict.re.kr



Key Achievements



Development of Materials, Construction Methods, and Fire Protection Systems for Enhancing Public Safety in Large-Scale and Rapid Fire Events



Development of World-Class Carbon Spatial Maps for Data-Driven Carbon Neutrality Policies



Enhancing Construction Site Safety and Quality through Digitalization, Automation, and Autonomous Operations

Research & Project List

Development of Safe and Convenient Underground Roadway Technologies (K-SCOUR)

Developing innovative technologies to enhance the safety and multifunctional integration of next-generation underground roadways, with demonstration and commercialization toward global leadership

Development of Urban CO₂ Capture and CCU-Based Construction Materials

Developing technologies for CO₂ capture, utilization, and permanent storage from urban emission sources, and applying them to construction materials to support the Nationally Determined Contribution (NDC) targets for greenhouse gas reduction

Development of Safe and Cost-Effective Underground Data Center Technologies

Developing the world's first underground data center technologies that ensure enhanced safety while reducing energy consumption and construction costs

Development of Technologies for 100% Energy Self-Sufficient Net-Zero Buildings

Developing integrated net-zero technology packages to maximize building energy performance and establish rapid demonstration infrastructure for achieving 100% energy self-sufficiency

Development of Construction-Specific AI Models and Sustainable AI Transformation Platform (K-CAX)

Developing advanced domain-specific AI models for construction applications and establishing sustainable AI transformation (AX) platforms and infrastructure to adapt to evolving AI technologies

PROFILE



Korea Railroad Research Institute

The Leading Innovator in Railway Technology

- ✓ Artificial Intelligence (AI)
- ✓ Hydrogen
- ✓ Cybersecurity
- ✓ Next-Generation Communications
- ✓ Advanced Robotics and Manufacturing
- ✓ Advanced Mobility



Website QR

Information

Main Contact	+82-31-460-5000
Website	https://www.krri.re.kr/
Purpose of Establishment	KRRI advances national and industrial development through R&D and its application in railways, mass transit and logistics.
Main Responsibilities	KRRI conducts R&D in railway systems, mass transit, safety and standardisation, promotes inter-Korean and continental railway connectivity, and supports industry through technology commercialisation, testing and certification.
Planned Recruitment	To be determined (TBD)

Contact

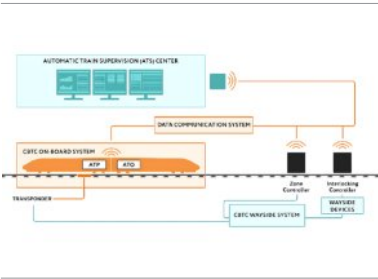
Department	Human Resources Department
Phone	+82-31-460-5177
E-mail	recruit@krri.re.kr



Key Achievements



HEMU-430X
High-speed train with a world-class maximum test speed of 430 km/h



KTCS-M (Urban Rail Signalling)
Korea-developed system, now in commercial operation and ready for export



Hydrogen Train
Catenary-free hydrogen fuel cell train enabling carbon-neutral railway operations

Research & Project List

Hyperconnected Society Research

- Railway transport innovation technologies for a hyperconnected society
- Performance enhancement of high-speed rolling stock and next-generation core technologies
- Key technologies for railway-based collaborative logistics

AI-Driven Railway Research

- Core control and communication technologies for intelligent railway operation
- Railway transport technologies driven by AI transformation (AX)
- Railway operation systems and technical standardisation based on digital transformation (DX)

Climate Change and Net-Zero Transition Research

- Future core technologies for green, ultra-high-speed railway infrastructure
- Environmentally friendly railway propulsion systems and railway infrastructure energy technologies
- Carbon-neutral, sustainable railway technologies

Railway Safety and Accessibility Research

- Core railway safety technologies for digital transformation
- Technologies for urban transport safety and operational efficiency
- Railway transport R&D addressing societal challenges

Railway Type Approval and Certification Services

- Technical regulations for railway vehicles and railway products
- Railway standards and specifications
- Type approval of railway vehicles and products

Railway Test Track Operation Services

- Operation of the 13 km Railway Comprehensive Test Track and provision of testing services

Railway SME Support Programme

- Technical, testing and commercialisation support for small and medium-sized enterprises (SMEs) in the railway sector

PROFILE



Korea Research Institute of Standards and Science (KRISS)
As Korea's National Metrology Institute, KRISS establishes and disseminates the measurement standards that drive science, industry, and daily life.



Website QR

- ✓ Semiconductor and Display
- ✓ Secondary Battery
- ✓ Advanced Biotechnology
- ✓ Hydrogen
- ✓ Artificial Intelligence (AI)
- ✓ Advanced Robotics and Manufacturing
- ✓ Quantum Technology

Information

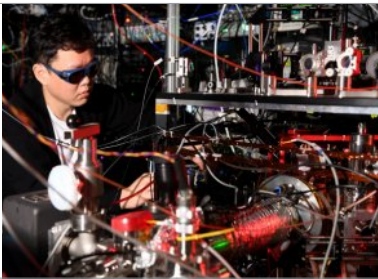
Main Contact	+82-42-868-5114
Website	https://www.kriss.re.kr/eng
Purpose of Establishment	As the National Metrology Institute designated under the Framework Act on National Standards, KRISS establishes and maintains Korea's national measurement standards, advances measurement science and technology, and disseminates them to industry and society, thereby contributing to national economic growth and a better quality of life.
Main Responsibilities	· Standards: Establish, maintain and improve national measurement standards · Science: Conduct research and development in measurement science and technology · Service: Disseminate measurement standards and technology and provide support services
Planned Recruitment	9 positions

Contact

Department	Office of Human Resources Management
Phone	+82-42-868-5511
E-mail	recruitment@kriss.re.kr



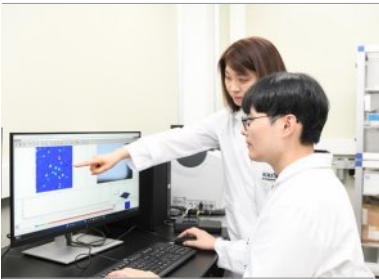
Key Achievements



Ytterbium Optical Clock (KRISS-Yb1)
accurate to one second in 2 billion years, and Korea's contribution to Coordinated Universal Time.



20-Qubit Superconducting Quantum Computing Development
a Korea-developed system that lets researchers run quantum computations remotely.



Ultra-Sensitive Alzheimer's Diagnostics
a SERS platform quantifying biomarkers in body fluids 100,000 times more sensitively than fluid tests

Research & Project List

Development of World-Leading Technology in Physical Measurement Standards

Developing world-leading physical measurement standards and breakthrough technologies in measurement standards

Development of high-performance superconducting quantum computer with error correction

Development of ultra-high-performance qubit devices featuring a 100-qubit-class surface code structure for error correction

Developing digital safety measurement to enhance the availability of smart structural monitoring of facilities

Development of Reliable, High-Precision Measurement Technologies for Efficient Structural Safety Monitoring

Strategic Research Group for Hyper-Connected, Scalable Super-Quantum Computing

Research and development of quantum algorithms and software for multi-core quantum computing

Development of quantum-based measurement technologies

: Development of core measurement technologies for characterizing devices and systems based on quantum phenomena to advance next-generation quantum applications and future standards

Development of a Ytterbium(Yb)-Based 1,000-Qubit Neutral-Atom QPU Platform

Develop a 1,000-qubit-class neutral-atom QPU platform based on domestically developed technology to implement a system capable of large-scale adiabatic quantum computing

National Measurement Standards Services and Technical Support for Industries

Promoting national measurement standards services through demand-driven dissemination of research outcomes and industry support for measurement technology adoption

Establishment of basic performance evaluation platform for vacuum materials, parts and equipment for next-generation device manufacturing process

Establishing a basic performance evaluation infrastructure for vacuum equipment, parts, and materials to boost semiconductor yields.

PROFILE



World Institute of Kimchi(WiKim)

The Global Hub for Kimchi culture and Fermentation Science

- ✓ Advanced Biotechnology
- ✓ Smart Factory
- ✓ Healthcare
- ✓ Next-Generation Storage & Distribution
- ✓ Quality Standardization



Website QR

Information

Main Contact	+82-62-610-1700
Website	https://www.wikim.re.kr
Purpose of Establishment	To foster and advance the kimchi industry by conducting R&D to enhance the status of Kimchi's country of origin and promote the creative advancement of global kimchi culture
Main Responsibilities	- Developing high-quality commercial kimchi production, fermentation, and safety technologies - Conducting convergence & innovative R&D for kimchi and related industries - Scientifically proving kimchi's excellence and leading its global expansion
Planned Recruitment	To be Determined

Contact

Department	Human Resources Management Department
Phone	+82-62-610-1769
E-mail	recruit@wikim.re.kr



Key Achievements



Development and Commercialization of Industry-Driven Kimchi Starter Application Processes



Implementation of an AI-Enabled Smart Factory for Kimchi Production



Scientific Elucidation and Clinical Validation of Kimchi Health Benefits

Research & Project List

Development of a Global Standard Platform for Kimchi Factories

Development of a Global Kimchi Factory Platform Integrating Customized Manufacturing, Standard Certification, and Digital Twin Technologies

Development of Novel Biomaterials Derived from the Kimchiome

Development of Functional Biomaterials and Health Functional Foods from Kimchi-Derived Lactic Acid Bacteria, Bioactive Compounds, and Bacteriophages

Development of Starter Culture-Based Fermentation Kinetics Control and AI Prediction Technologies for Kimchi

Development of AI-Driven Starter Culture Technologies for Intelligent Kimchi Fermentation through Data-Based Strain Development and Commercialization

Development of Next-Generation Technologies for Long-Term Distribution and Quality Preservation of Kimchi

Development of Export-Oriented Technologies for Long-Term Storage, Quality Preservation, Distribution Processes, and Predictive Quality Evaluation of Kimchi

Elucidation of the Health-Promoting Effects of Kimchi

Elucidation of Anti-Obesity and Gut Health Mechanisms and Development of Kimchi-Derived Functional Biomaterials for Efficacy Validation and Commercialization

Development of Life Cycle-Based Quality Management Technologies for Kimchi

Development of Integrated Life Cycle Quality, Safety, and Hygiene Management Technologies for Kimchi

PROFILE



Korea Institute of Geoscience and Mineral Resources(KIGAM)

Leading Innovative Solution of Geo-Technology to Sustainable Earth

✓ Secondary Battery ✓ Aerospace and Marine Technology ✓ Hydrogen



Website QR

Information

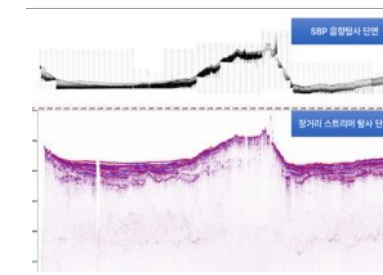
Main Contact	+82-42-868-3411
Website	https://www.kigam.re.kr
Purpose of Establishment	Contributing to sustainable national development through domestic and international onshore and offshore geological surveys, exploration, development, and utilization of subsurface resources, and R&D and dissemination of achievements in response to geological hazards and global environmental change.
Main Responsibilities	• Geo-information & Geotechnology for public safety and awareness • Mineral resources utilization and recycling technology for the mining industry • Original technology for petroleum and gas resources to secure energy in the future • New geo-technology on global climate change to improve the quality of life in Korea
Planned Recruitment	00 positions

Contact

Department	Human Resources Department
Phone	+82-42-868-3782
E-mail	dhkim@kigam.re.kr



Key Achievements



Exploration and Potential Assessment of Rare Earth Element Resources in the Western Pacific Seafloor



Development of geological convergence technology for landslide / debris flow hazards due to climate crisis



3D/4D Geophysical Survey Research Vessel (Tamhae 3) Construction Project

Research & Project List

Development of intelligent geological information, geohazard, and underground space safety technologies

- 1) Enhancement of geological information and development of underground space utilization technologies
- 2) Development of prediction and response technologies for geological hazards including earthquakes, active faults, and volcanoes
- 3) Establishment of a national geoscience data center and enhancement of the outcome diffusion system

Development of technologies for securing the nation's future energy and resources

- 1) Development of exploration and securing technologies for critical minerals underpinning future industries
- 2) Development of technologies for critical mineral utilization and future resource circulation
- 3) Development of low-carbon energy transition technologies for stable petroleum supply and marine resource security

Development of technologies for carbon reduction and geo-environmental resilience

- 1) Development of carbon reduction technologies based on geological storage and utilization
- 2) Development of technologies for integrated management of groundwater and geological environments

PROFILE



Korea Institute of Machinery & Materials (KIMM)

Research institute to bring a better future based on innovation in mechanical technology

- ✓ Semiconductor and Display
- ✓ Secondary Battery
- ✓ Advanced Biotechnology
- ✓ Hydrogen
- ✓ Artificial Intelligence (AI)
- ✓ Advanced Robotics and Manufacturing



Website QR

Information

Main Contact	+82-42-868-7114
Website	https://www.kimm.re.kr/eng
Purpose of Establishment	To contribute to national and industrial development by conducting research and development, commercialization, and reliability testing and evaluation of core technologies in the field of machinery and materials.
Main Responsibilities	- Conducting research and development of core technologies in machinery and materials - Commercializing and disseminating research outcomes - Conducting reliability testing and evaluation of machinery and materials technologies
Planned Recruitment	00 positions

Contact

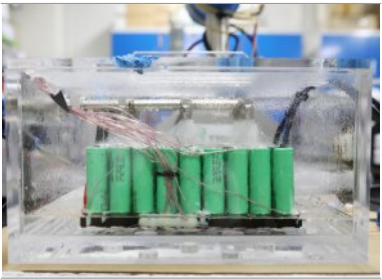
Department	Department of Human Resources Management
Phone	+82-42-868-7028
E-mail	recruit@kimm.re.kr



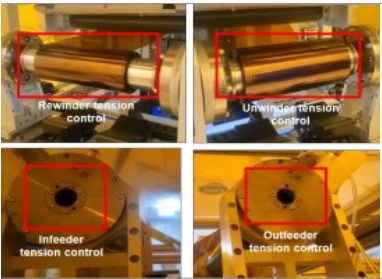
Key Achievements



Developed a next-generation AI humanoid robot for human interaction and autonomous learning.



Developed the world's first spray-based immersion cooling technology for safer battery thermal management.



Developed a roll-to-roll digital lithography system for continuous high-resolution patterning of flexible substrates.

Research & Project List

Research Institute of Autonomous Manufacturing

Develop autonomous manufacturing equipment and process technologies by integrating advanced manufacturing, digital twin, AI, monitoring, and control technologies.

Research Institute of Carbon-neutral Energy Machinery

Develop carbon-neutral energy systems and core thermo-fluid equipment for hydrogen, heat pumps, energy storage, and industrial applications.

Research Institute of AI Robotics

Develop AI-based autonomous manipulation, human-robot collaboration, robotic performance, and innovative design technologies for next-generation robots.

Nano-convergence Manufacturing Research Division

Develop core nano-convergence manufacturing technologies and promote their commercialization for future production.

Eco-friendly Energy & Environment Research Division

Develop high-efficiency clean energy, air and water treatment, and eco-friendly power generation technologies.

Virtual Engineering Platform Research Division

Develop virtual engineering, digital twin, and integrated operation platform technologies for the design, analysis, and evaluation of complex mechanical systems.

PROFILE



Korea Institute of Energy Research

Toward a content and prosperous society, led by KIER energy technology

✓ Secondary Battery

✓ Artificial Intelligence (AI)

✓ Hydrogen



Website QR

Information

Main Contact	+82-42-860-3114
Website	https://www.kier.re.kr/
Purpose of Establishment	It aims to contribute to the creation of national growth engines and the development of the national economy through R&D and spread of achievements in the energy technology area
Main Responsibilities	As a leading research institution in energy technology, We improve the quality of human life and realize a sustainable future.
Planned Recruitment	To be Determined

Contact

Department	Human Resources Office
Phone	+82-42-860-3294
E-mail	junryeolko@kier.re.kr



Key Achievements



Establishing the foundation for a hydrogen economy society by disseminating 100% localized world-class extracted hydrogen production technology building H2 economy foundation



Contributing to low-cost domestic green H2 production through world-class technology transfer



Contributing to GHG reduction based on world-class wet and dry CO2 capture technologies and inherent CO2 separation during fuel combustion

Research & Project List

Hydrogen Fuel Cell Stack and System Technology for Mitigating Short-Term Power Fluctuations

Fuel cell stacks and systems capable of fast-response power generation to address power fluctuations in renewable energy.

Long-Duration, Large-Capacity Secondary Batteries and Domestic Material Localization

Development of world-class long-duration, large-capacity flow battery BESS and localization of high-energy-density secondary battery anode materials

Development of DC Fault Detection Technology for Enhancing Distributed Energy Resource Safety

DC arc fault detector with world-class (99.99%+ accuracy) DC system fault detection performance for distributed energy resources

Securing Bioenergy and Resource Upcycling Technologies

Core elemental technologies for biodiesel production to substitute diesel fuel / Commercialization and pyrolysis of biodiesel meeting domestic and international quality standards / Energy production and utilization processes utilizing waste plastics, waste tires, waste oils, and biomass

Development and Demonstration of Townhouse-Type Hydrogen Production, Storage, and Utilization System Technology

Development of an integrated hydrogen town-type energy system capable of renewable energy-based hydrogen production, storage, and utilization

Securing Next-Generation Innovative Solar Photovoltaic Technologies for Carbon Neutrality

Urban-specialized solar cells overcoming constraints of installation area, location, and form factor (ultra-high-efficiency and multifunctional solar cells)

PROFILE



KERI(KOREA ELECTROTECHNOLOGY RESEARCH INSTITUTE)
KERI, the Electrified World's Hub



Website QR

- ✓ Semiconductor and Display
- ✓ Secondary Battery
- ✓ Advanced Biotechnology
- ✓ Hydrogen
- ✓ Artificial Intelligence (AI)
- ✓ Advanced Mobility
- ✓ Advanced Robotics and Manufacturing

Information

Main Contact	+82-55-280-1114
Website	www.keri.re.kr
Purpose of Establishment	Contribution to the advancement of the national power and electricity industry through R&D of electric power and electricity and diffusion of outcomes, and provision of testing and certification service
Main Responsibilities	R&D, Testing&Certification, Other Business
Planned Recruitment	00 positions

Contact

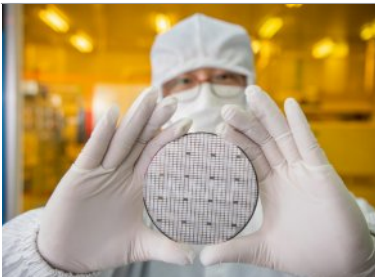
Department	Human Resource Development Department
Phone	+82-55-280-1262
E-mail	jjm9550@keri.re.kr



Key Achievements



Development of Next-Generation Energy Management System (EMS)



Development of SiC Power Semiconductors



Securing World-Class High-Voltage, High-Power Testing Capabilities (Ranked 2nd globally)

Research & Project List

Development of Digital Excitation Control System for Power Plants

Achieved technological independence in excitation control systems and improved power plant reliability and utilization through a digital triple-redundant control system.

Development of Korea Distribution Automation System(KODAS)

Enhanced distribution system reliability by minimizing blackout areas and outage duration, while optimizing the system to improve power quality and maximize utilization of power facilities.

Development of Reactor Control Rod Drive Control System for Nuclear Power Plants

Achieved Korea's first localization and commercialization of the nuclear power plant primary control system and improved plant availability through redundant architecture preventing single points of failure.

Development of Protection Technology against High Power Electromagnetic(HPEMP)

Developed a large-capacity varistor for HPEMP protection and surge protective devices, achieving world-class surge energy absorption performance in a single varistor body.

Localization of 765kV Electric Facilities

World's first commercialization of a 765kV double-circuit vertical AC transmission line and achieved technological independence in the design, construction, and maintenance of 765kV transmission facilities.

Development of High-Performance Electrode Technology Based on Nano Carbon Materials

Developed high-quality conductive inks using silver/CNT and copper/graphene hybrids, and high-capacity secondary batteries with silicon/graphene composite anode materials.

Performance Verification and Design Technology Development for Submarine electric Propulsion System using LBTS

Contributed to submarine localization and completion of the world's third Land-Based Test Site (LBTS) for electric ships, reducing construction time by 368 days and saving KRW 420 billion.

Development of Core Material Technology for LowCost Mass Production of All-Solid-State Batteries

Developed the world's first mass synthesis technology for sulfide solid electrolytes and secured next-generation battery leadership with high-energy, high-safety battery technology

PROFILE



Korea Research Institute of Chemical Technology

Chemistry for Us, Chemistry for Earth

- ✓ Semiconductor and Display
- ✓ Secondary Battery
- ✓ Advanced Biotechnology
- ✓ Hydrogen
- ✓ Artificial Intelligence (AI)



Website QR

Information

Main Contact	+82-42-860-7114
Website	https://www.krict.re.kr/
Purpose of Establishment	To reinforce the competitiveness of chemical industries and contribute to the resolution of national and social problems by performing R&D in chemical and convergence technologies and providing public infrastructure and services
Main Responsibilities	Increasing competitiveness of chemical industry and contribute to solve national and societal challenges through R&D in chemistry and convergence technologies
Planned Recruitment	10 positions (subject to change)

Contact

Department	Office of Human Resources Development
Phone	+82-42-860-7971
E-mail	recruit@krict.re.kr



Key Achievements



Development of Inkjet-Based Perovskite Solar Cell Commercialization Technology



Development of Eco-friendly Manufacturing Technology for Calcium Compounds Recycled from Oyster Shells



Development of Large-Area Membrane Fabrication and Module Technology for Virus Removal

Research & Project List

Environmentally Friendly Chemical Process Technology

Develop eco-friendly chemical processes to maximize the greenhouse gases & underutilized resources, and create energy-saving methods for base chemicals to achieve carbon neutrality

High Value-added Chemical Materials

Develop key chemical materials to boost our nation's global competitiveness in semiconductor, display, energy, sensor, and environmental technologies

Innovative Drug Discovery and Biotechnology

Develop core medical, pharmaceutical, and biological technologies for healthy life and healthcare innovation

Bio-based Chemical and Green Fine Chemical Materials

Develop industry-leading fine chemical material and waste-reducing bio plastic production technology

Chemical Platform Infrastructure

Develop data-based chemical research platforms for materials and drugs, provide chemical analysis services, and research chemical safety and evaluation

Secondary Batteries

Lead the next-generation secondary battery tech., featuring energy density, ultra-light weight, and high safety

CCU (Carbon Capture and Utilization)

Develop CFE-based CCU technologies and a modular process for commercialization

PROFILE



Korea Institute of Toxicology
A Global Toxicology Research Institute Advancing Public Health and safe society

Advanced Biotechnology Artificial Intelligence (AI)



Information

Main Contact	+82-42-610-8335
Website	https://www.kitox.re.kr/
Purpose of Establishment	We contribute to the advancement of national industries and the improvement of public health and well-being by conducting safety assessment research on chemicals, biological substances, and other materials, developing related technologies, and supporting collaboration among industry, academia, and research institutions.
Main Responsibilities	As a leading research institute in the field of toxicology, we drive safer lives and innovative growth across national industries through toxicological research for human health and the environment and the development of next-generation core technologies.
Planned Recruitment	Permanent Positions: 2 / Fixed-term Positions: To be determined

Contact

Department	Human Resources Development Office
Phone	+82-42-610-8335
E-mail	job@kitox.re.kr



Key Achievements

24hpf Tail coiling movement assay

48, 72hpf Touch-evoked response assay

96hpf Locomotor activity assay

문동신경, 근육세포 등 기초 운동성 관련 신경독성평가

감각신경, 운동신경 관련 신경독성평가

행동감각, 자유운동 행동 기반 신경독성 평가

HepaRG, HUVEC co-culture model with enhanced functionality

3D bioprinting

Artificial tissue mimicking liver microstructure

Implantable patch construct for liver therapy

Standardized model through automation and mass production

6-PPD (고구 산화 방지제)

생체 배아 접목소재로

세포 사멸 증가

미토콘드리아 손상 증가

대변 조직 분석 (종류 대체 모델)

SKN-1

성장 속도 둔화

미토콘드리아 손상 증가

산소 소비량 감소

수명 감소

Using C. elegans, we linked 6PPD to mitochondrial dysfunction and shorter lifespan; heart and lung toxicity confirmed; JHM (IF 11.3), EES (IF 6.1).

Developed the world's first zebrafish embryo-based DNT alternative, leading to an OECD test guideline proposal and publication in JHM (IF 11.3).

Built a 3D human liver model of immune-liver interactions, published in CEJ (IF 13.2).

Research & Project List

- Development of AI-based Precision Toxicity Prediction Technology

Develop AI-powered precision toxicology technology to predict individual liver toxicity using chemical structure, toxicity data, and human genomic information.
- Development of Tox-Twin, a safety assessment technology focused on human development

Develop Tox-Twin, a next-generation safety assessment technology centered on human development, as an alternative to nonclinical animal testing.
- Development of Toxicity Assessment Technologies and Toxicological Research for Chemicals in the Living Environment

Develop toxicity assessment technologies for environmental chemicals using human embryonic stem cells, organoids, and fish embryos.
- Research and Development of Inhalation Toxicity Assessment Technologies for Inhalable Risk Factors

Development of an integrated hydrogen town-type energy system capable of renewable energy-based hydrogen production, storage, and utilization

PROFILE



Korea Atomic Energy Research Institute

Center of Nuclear Technologies for a Better World, Acquiring People's and Global Support

- ✓ Atomic Energy
- ✓ Advanced Biotechnology
- ✓ Artificial Intelligence (AI)
- ✓ Aerospace and Marine Technology
- ✓ Quantum Technology



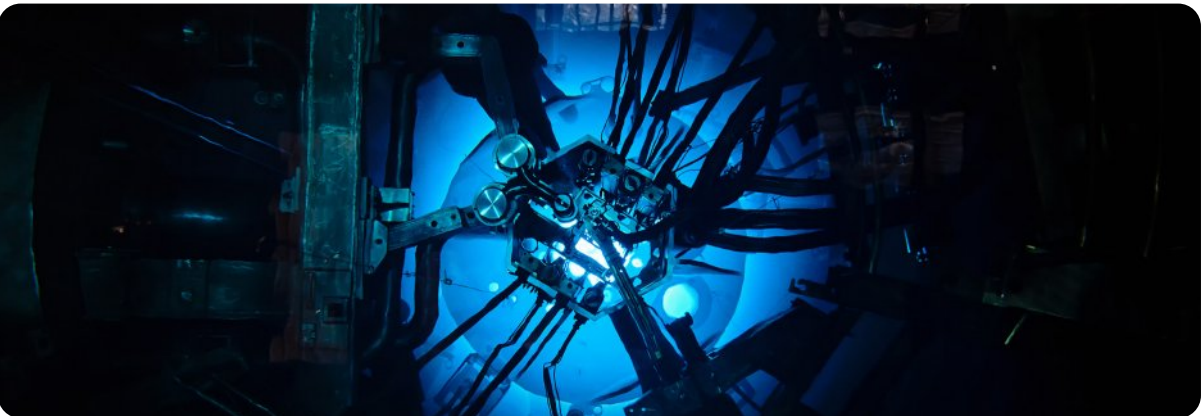
Website QR

Information

Main Contact	+82-42-868-2000
Website	https://www.kaeri.re.kr/eng/
Purpose of Establishment	Perform comprehensive research and developments in the field of atomic energy for the sake of making contributions to academic advancement, national energy security, and diverse utilization of atomic energy
Main Responsibilities	1. Strengthen national energy security and lead carbon neutral future with safe nuclear energy, 2. Promote people's health and living convenience with top notch radiation and quantum beam technologies
Planned Recruitment	56(H2, 2026)

Contact

👤 Department	HR Team
☎ Phone	+82-42-868-8015
✉ E-mail	insa@kaeri.re.kr



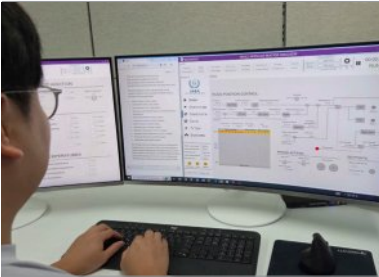
Key Achievements



NextGen MURR Design Export Contract Awarded — University of Missouri, USA



Novel Economical and Eco-Friendly Recycling Process for Lithium Iron Phosphate (LFP) Batteries



World's First AI Agent for Nuclear Reactor Operation Support

Research & Project List

Nuclear Safety Research

Development of Technology to Enhance Safety of Operating Nuclear Power Plants

SMR R&D (Water-Cooled SMR)

Innovative Small Modular Reactor(i-SMR) Technology Development Project

SMR R&D (Non-Water-Cooled SMR)

Very High Temperature Reactor (VHTR, Very High Temperature Reactor) , Molten Salt Reactor (MSR, Molten Salt Reactor) , Sodium-cooled Fast Reactor (SFR, Sodium-cooled Fast Reactor)

Spent Fuel Management Technology Development

Spent Fuel Storage and Disposal Safety Assurance Core Technology Development Project

Nuclear Decommissioning Research

Nuclear Decommissioning Competitiveness Enhancement Technology Development Project

Advanced Radiation Utilization Research

Non-Fungible Radiation Strength Technology(NFRT) Development

National Research Infrastructure

1. HANARO : National core infrastructure facility(thermal power 30MW research reactor), a platform for basic neutron research and industrial support
2. KJRR : The Kijang Research Reactor (KJRR) is another significant project aimed at medical RI production
3. Proton Accelerator : Operating a 100 MeV-class linear proton accelerator

GlobalTOP Strategic Research Group

SMR Virtual Reactor Platform(V-SMR) Development Project

PROFILE



KOREA INSTITUTE OF ORIENTAL MEDICINE(KIOM)

Building a healthy and happy future for everyone, KIOM, the N.E.X.T

- ✓ Advanced Biotechnology
- ✓ Artificial Intelligence (AI)



Website QR

Information

Main Contact	+82-42-861-1994
Website	kiom.re.kr
Purpose of Establishment	KIOM carries out professional and systematic R&D activities on KM theories, technologies, and services, and disseminate their outcomes, thereby contributing to the development of relevant industries and improvement of public health.
Main Responsibilities	- R&D on Korean medicine and establishment of KM technology infrastructure - Implementation of its role as a national foothold for Korean medicine
Planned Recruitment	00

Contact

Department	HR Development Team
E-mail	sj0103.lee@kiom.re.kr



Key Achievements

Scientific advancement and standardization of diagnosis and development of diagnosis devices	Scientific validation of Korean medicine treatment technologies	Modernization and advancement of traditional medicine knowledge resources

Research & Project List

KM science research division

- 1) Scientific examination of KM theories
- 2) Reinforcement of clinical evidence of KM technologies

KM convergence research division

- 1) Development of prevention and treatment technologies for chronic and intractable diseases
- 2) Development of treatment technologies for environmental diseases and mental illnesses

Digital health research division

- 1) Development of digitalized KM healthcare technologies
- 2) Development of technologies for KM devices based on ICT convergence

KM data division

- 1) Establishment of the platform for collection and utilization of KM big data and information
- 2) Development of core technologies for precision medicine in Korean medicine

KM application center

- 1) Securing of clinical evidence and development of treatment technologies for major diseases to address the demands in the clinical setting
- 2) Development and commercialization of KM application technologies for the creation of new local businesses

Herbal medicine resources research center

- 1) Leading the global standardization of herbal resources
- 2) Establishment of a comprehensive hub for herbal resources and creation of future values

PROFILE



Korea Food Research Institute (KFRI)

Better Food, Better Future

✓ Advanced Biotechnology



Website QR

Information

Main Contact	+82-63-219-9114
Website	https://kfri.re.kr
Purpose of Establishment	Contribute to the development of national industries and the improvement of the quality of life of the people through research and development in the food sector, creation of public value, spread of performance and technical support, etc.
Main Responsibilities	- Core tech development for food industry competitiveness - Quality, consumption, & safety management systems - Food bio-materials & nutritional metabolic regulation research for healthy longevity
Planned Recruitment	3 open positions for researchers (TBA)

Contact

Department	Department of Human Resources Development
Phone	+82-63-219-9197
E-mail	insa@kfri.re.kr



Key Achievements

Development of natural materials to prevent age-related muscle loss and acquisition of the world's first individual recognition for health functional food	Revision of the CODEX Kimchi standard and promotion of international standards for dried seaweed products to globalize domestic food	Transfer of core technologies for clean-label food processing and establishment of the first domestic certification system
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Research & Project List

Establishment of a clean-label processed food certification system

First domestic establishment of group standards for clean-label processed foods, and development of food processing technologies that overcome the limitations of conventional additives

Development of materials derived from Lithospermum erythrorhizon extract to improve age-related muscle strength

First elucidation of muscle aging delay mechanisms using domestic natural materials, and approval as an individually approved functional ingredient

Elucidation of mutual regulation mechanisms among key Korean gut microorganisms

Elucidation of mechanisms for Akkermansia muciniphila, a key gut microorganism, utilizing the large-scale Korean gut microbiome database established by KFRI

Designation of international food standards for the global expansion of K-Food

New listing of 'Kimchi cabbage' as a main raw material in the CODEX global standard (CXS 223-2001)

Integrated intelligent production equipment for autonomous manufacturing processes toward hyper-automation in food processing

Development of predictive and analytical models for food quality changes, along with autonomous control robots, hyper-automated equipment, and precision controllers

Development of aging prediction technologies for premium K-SPIRITS and localization of strains, distillers, and aging vessels

Development of AI-based ultra-accelerated aging technology and aging prediction models for distilled spirits, alongside the localization of key core technologies

PROFILE



Korea Institute of Materials Science

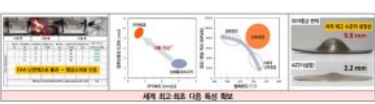
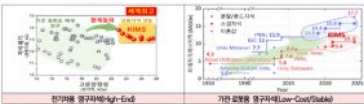
Global materials research institute realizing a materials powerhouse

- ✓ Semiconductor and Display
- ✓ Advanced Biotechnology
- ✓ Hydrogen
- ✓ Aerospace and Marine Technology
- ✓ Advanced Robotics and Manufacturing



Website QR

Key Achievements



Develop and commercialize Dy/Tb-free Nd and rare-earth-free Mn-Bi magnets for Korea's self-reliance in EV, robot, and appliance motor technologies.

World-first commercialization of stainless magnesium (SEN-Mg), overcoming the ignition, corrosion and processing limits of conventional magnesium.

Combines frequency-selective magnetic absorbers with conductive patterns to control electromagnetic wave propagation.

Research & Project List

Extreme Materials Research

Develops advanced materials and processing technologies for extreme environments, with exceptional strength, toughness, heat, corrosion resistance.

Composites & Convergence Materials Research

Develops full-cycle composite technologies, from design to certification, for aerospace, mobility, energy, extreme environments, wind turbine blades.

Lightweight Materials Research

Develops high-performance lightweight metals and alloys for mobility, aerospace, and defense through alloy design, processing, precision analysis.

Energy & Environment Materials Research

Develops next-generation energy and environmental materials, surface processing technologies, and solutions for hydrogen production, storage, transport, use.

Materials Processing Research

Develops AI-, digital twin-, and virtual engineering-based smart processing technologies to strengthen strategic materials and component industries. Nano Materials Research

Advanced Bio and Healthcare Materials Research

Develops nano, bio, and plasma-based technologies for early disease diagnosis, tissue regeneration, animal-test alternatives, drug delivery, treatment.

Nano Materials Research

Develops advanced metallic and ceramic nanomaterials that overcome conventional limits using superior surface, electronic, magnetic properties.

Materials Data & Analysis Research

Develops AI technologies and big data systems by integrating physical and digital technologies to drive innovation in materials and component manufacturing.

Information

Main Contact	+82-55-280-3000
Website	https://www.kims.re.kr/?lang=en
Purpose of Establishment	As a research institute specializing in materials, KIMS carries out a comprehensive range of activities related to materials technology including R&D, inspections, testing & evaluation, and technical support.
Main Responsibilities	Carrying out a comprehensive range of activities related to materials technology including R&D, inspections, testing&evaluation, and technical support
Planned Recruitment	11 positions

Contact

Department	Human Resource Development Department
Phone	+82-55-280-3715
E-mail	recruit@kims.re.kr



PROFILE



Korea Institute of Fusion Energy(KFE)

Brightening our future with an artificial sun: KFE

- ✓ Semiconductor and Display
- ✓ Advanced Biotechnology
- ✓ Hydrogen
- ✓ Artificial Intelligence (AI)
- ✓ Next-Generation Nuclear Power



Website QR

Information

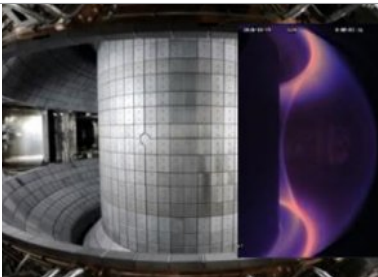
Main Contact	+82-42-879-6000
Website	https://www.kfe.re.kr/
Purpose of Establishment	To contribute to national economic development and enhance the quality of life for all citizens through the research and development of fusion energy.
Main Responsibilities	· Commercializing Korean fusion energy and pioneering next-generation fusion reactor technologies · Advancing fusion plasma physics through international co-utilization of world-class research facilities · Driving targeted R&D to achieve practical fusion energy demonstration · Securing core technologies through active participation in the ITER project · Pioneering spin-off and applied plasma technologies to build future industrial capabilities
Planned Recruitment	23 positions

Contact

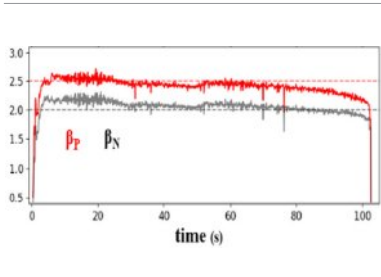
👤 Department	Human Resources Development Office
☎ Phone	+82-42-879-6055
✉ E-mail	recruit@kfe.re.kr



Key Achievements



Achieved world records of 100 million degrees for 48 seconds and high-performance operation for 100 seconds ('24).



Published in Nature ('22) as world-class research.



Achieved world-record successful operation after replacing the high-temperature plasma-facing wall material (divertor) with tungsten ('24).

Research & Project List

KSTAR Research Program

Establishing a foundation for technological self-reliance in fusion reactors by securing and accumulating high-performance plasma and tokamak operation technologies through KSTAR collaborative experiments.

Fusion Demonstration Reactor Research Program

Securing the foundation for developing a Korean fusion demonstration reactor through basic design, core technology development, and simulation research.

Plasma Technology Research Program

Overcoming technological bottlenecks in strategic industries through the advancement of low-temperature plasma source technologies and developing convergence technologies to create new markets.

ITER Core Technology Development, Operation, and Management Program

Securing and developing core ITER and Test Blanket Module (TBM) technologies, alongside managing the quality and design of procurement items.

2026 Korean National Labs
Global Job Fair
Introducing Korean National Labs, connecting outstanding talent with new career and research opportunities, and fostering networking and collaboration



Ministry of Science and ICT



National Research Council
of Science & Technology

Brain
to Korea