

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

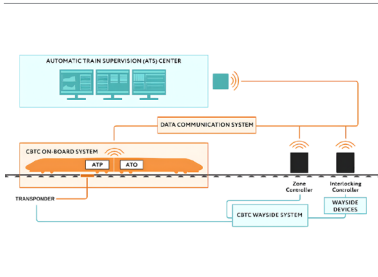
Department	Human Resources Department
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Key Achievements



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