

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

Information

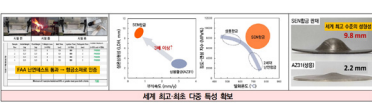
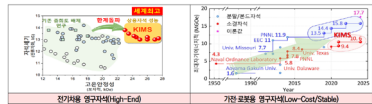
Main Contact	+82-55-280-3000
Website	https://www.kims.re.kr/?lang=en
Purpose of Establishment	As a research institute specializing in materials, KIMS carries out a comprehensive range of activities related to materials technology including R&D, inspections, testing & evaluation, and technical support.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



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.