

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

- Analytical support services for domestic and international researchers through the establishment and operation of large research facilities
- Research achievements and joint research through R&D in analytical science
- Policy support for establishing and managing national research facilities and equipment, as well as promoting efficient utilization
- Advancement of the domestic equipment industry and training of professionals through R&D in research equipment development

Planned Recruitment

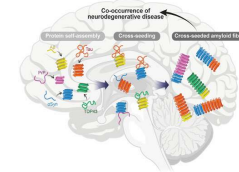
8 positions

Contact

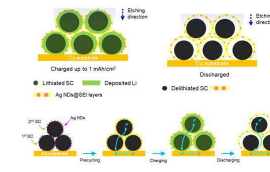
- Department** Department of Human Resources Development
- Phone** +82-42-865-3531
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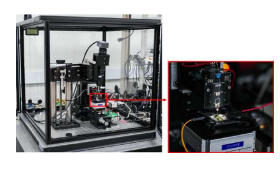
Key Achievements



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

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.