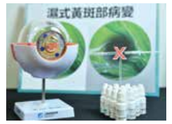
HONORS





ITRI has been strengthening the development of emerging industries with its forward-looking technologies. It has won 58 R&D 100 Awards for 16 consecutive years since 2008. Most of the winning technologies have been licensed to manufacturers for commercialization, creating new value for industries. ITRI is also the winner of CES Innovation Awards and Edison Awards. In 2023, it was selected as a Top 100 Global Innovator for the seventh time.

2023

Top 100 Global Innovator

R&D 100 Awards

Athena Orchestrator
HEAD-Matrix ALD+
iRFA
Micro-CPS
SENSE
TO-O-1001 ophthalmology solution
VOC-3R System
Novel Eye drop TO-O-1002

CES Innovation Awards Honoree

AI Aquarium

Edison Awards

Athena Orchestrator—O-RAN SMO & RIC
Coordinated Supramolecular Complex
Intelligent Radio Frequency Ablation

2022

Top 100 Global Innovator

R&D 100 Awards

High Resolution Full-Color Micro LED Display for AR Glasses
Point-of-Care AI-DR
GreenTape™ 9KC LTCC and Ag Metallization for mmWave 5G Wireless Devices

CES Innovation Awards Honoree

iPetWeaR
RGB-D AI Robot
All-in-One Thermal Sensing System

2022

Edison Awards

BioMS-Ti
Portable Edge AI-DR

SCF Small Cell Awards

5G Energy-Saving O-RAN System

2021

Top 100 Global Innovator

R&D 100 Awards

BioMS-Ti
UWAW
SARJ

CES Innovation Awards Honoree

iDarlingWeaR

Edison Awards

AI-Based High-Density Shuttle Rack Service System
MetabColor

2020

Top 100 Global Innovator

R&D 100 Awards

D-EOS
NAEPE
iSCare

CES Innovation Awards Honoree

PECOLA
iStimUweaR

Edison Awards

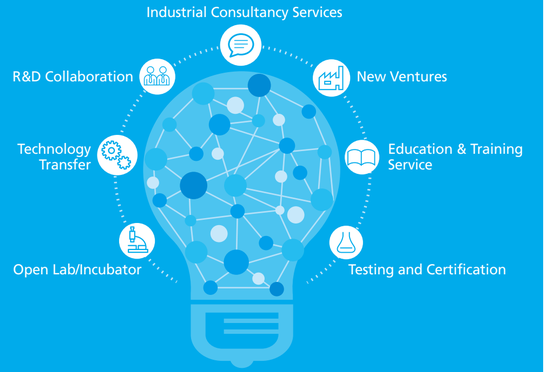
iKNOBEADS
Celluad™

GLOBAL PARTNERS

ITRI has been collaborating with more than 150 organizations and companies worldwide. Among these include Applied Materials, Corning, DuPont, NRC, Stanford University, UC Berkeley, UCLA, Arcelik, Heraeus, Catapult, Oxford Instruments, CEA, Fraunhofer, VTT, Asahi Kasei, Fujifilm, Tokyo Gas, Tan Chong Motor, SCG Chemicals, MIDA, and NSTDA.

INDUSTRIAL SERVICES

ITRI provides comprehensive industrial services. Leveraging its edge in patents and the professional assistance of the open lab and incubation center, ITRI stimulates the development of emerging technologies and service innovation, thereby increasing industrial impact and economic value.



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ITRI
Industrial Technology Research Institute

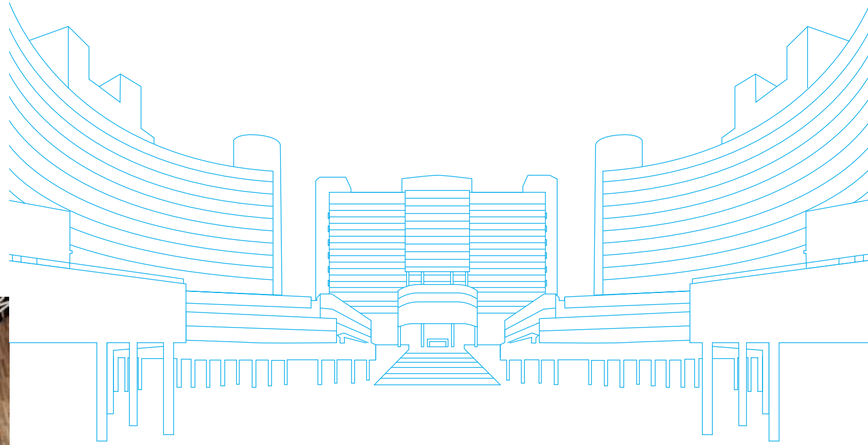
Official Website

Virtual Showroom

ITRI Taiwan

ITRI Channel

INNOVATING A BETTER FUTURE!



ITRI
Industrial Technology Research Institute

ABOUT THE INSTITUTE

ITRI is a world-leading applied technology research institute with more than 6,000 outstanding employees. Its mission is to drive industrial development, create economic value, and enhance social well-being through technology R&D. Founded in 1973, it pioneered in IC development and started to nurture new tech ventures and deliver its R&D results to industries. ITRI has set up and incubated companies such as TSMC, UMC, Taiwan Mask Corp., Epistar Corp., Mirle Automation Corp., and Taiwan Biomaterial Co.

Climate change, population dynamics, societal resilience, and paradigm shifts to digital lifestyles and industries are emerging as critical factors in shaping the landscape of technology. To remain at the forefront of innovation and address global challenges, ITRI has launched its 2035 Technology Strategy & Roadmap. This strategy aims to enhance intelligentization enabling technologies and focus on four application domains: Smart Living, Quality Health, Sustainable Environment, and Resilient Society. The Institute strives to leverage technological innovations to inspire new lifestyles, engineer market-driven solutions, create uncontested spaces, and ultimately steer society toward a better future.

Total Staff: **6,166**
Ph.D.: **1,278**
Master: **3,878**
Alumni: **27,750**

Sep. 2023

Accumulated Patents: **32,268**
Startups & New Business Units: **163**
Incubatees: **221**
Annual Industrial Services: **17,464**
Transferred Technologies Per Year: **512**

2035 TECHNOLOGY STRATEGY & ROADMAP

SMART LIVING

For all to enjoy high-quality living and lifestyle, ITRI is directing its R&D efforts toward innovations in *human-machine interaction & services, autonomous mobility systems*, and *smart consumption & logistics services*. ITRI is currently engaged in the development of XR systems, interactive in-vehicle systems, perception & prediction technologies, decision-making control, autonomous mobile robots, smart consumer services, and smart logistics. The goal is to meet the daily needs of the public and businesses while connecting Taiwan's industries with international advancements to explore new markets.

Human-Machine Interaction & Services

- Advanced Micro LED Display Technology
- Mountain Watcher
- AI Aquarium

Autonomous Mobility Systems

- Intelligent AMRs for Cleaning and Sterilization
- Technologies for Testing Vehicle Controllers and Battery Management Systems

Smart Consumption & Logistics Services

- Ancillary Services for Power Grid System
- High-Fidelity Virtual Reality Interaction System

SUSTAINABLE ENVIRONMENT

In pursuit of a sustainable future, ITRI is dedicated to enhancing technologies in the fields of *circular economy*, *low-carbon manufacturing*, and *green energy & environment*. To create a community where both society and industry thrive, ITRI puts emphasis on the green transition of chemical & material industries, sustainable electronics technology, biotechnology manufacturing, low-carbon product design, energy-efficient & low-carbon manufacturing, digitalization within manufacturing processes, low-carbon agrotechnology, sustainable energy sources, energy efficiency, smart grid & energy storage, and environmental technologies.

Circular Economy

- Easy-Dismantled Solar Module Design
- Steel and Chemicals Co-Production Pilot Plant
- GHG Emission Inventory Verification

Low-Carbon Manufacturing

- Dust Terminator
- Intelligent Textile Inspection System
- High-Performance Trochoidal Machining Control Technology

Green Energy & Environment

- PEM Fuel Cell with Metallic Bipolar Plate
- AI Digital Carbon Reduction Technology
- Innovative Low Carbon Ceiling Fan

QUALITY HEALTH

With the aid of ICT, big data, and AI, successful aging has become more attainable than ever before. To keep healthcare good and affordable, ITRI is actively advancing holistic and preventive technologies for precision health, medicine, and healthcare. Leveraging Taiwan's strength in ICT and medical systems, ITRI continuously refines *smart medtech* and elevates *healthcare* technology. The scope of development includes smart medical electronics, regenerative medicine, drug development, preventive healthcare, healthcare decision support systems, and general life-enhancing solutions. ITRI aspires to build a tech ecosystem for the public's well-being within the global biomedical market value chain.

Smart Medtech

- ITRI-501, an Anti-TIGIT Monoclonal Antibody for Solid Tumor Therapy
- Portable Electrical Impedance Tomography (EIT)
- Remote-Operated 5G Abdominal Ultrasound Telemedicine Technology

Healthcare

- Tissue Engineering Technology and Materials in Tendon/Ligament Repair
- Bugu-M, a Natural Ingredient for Memory
- Mobile Cognitive Assessment Platform

RESILIENT SOCIETY

To address risks brought by extreme weather, large-scale earthquakes, geopolitics, and pandemics, ITRI is strengthening society's ability to respond and recover through technology. In sectors of *infrastructure*, *resource & energy*, and *productivity*, ITRI is rolling out resilience solutions for transportation, information & communication networks, grid, energy resource management, key resources supply, workforce development, as well as manufacturing equipment and components.

Infrastructure

- SENSE

Resource & Energy

- Water Leakage Detection System for Smart City Pipeline Networks

Productivity

- Harmonic Drives

INTELLIGENTIZATION ENABLING TECHNOLOGY

Intelligentization enabling technology is the backbone of the 2035 Technology Strategy & Roadmap. ITRI turns to *AI & cybersecurity, semiconductor, communication*, and *smart sensing* technologies to foster breakthroughs in the above four application domains. Dedicated to driving industry growth, ITRI continues to explore innovative combinations of applications and service possibilities.

AI & Cybersecurity

- Auxiliary Online Market Surveillance System for Energy Labeling
- Immersion Cooling Technology for Edge Data Centers

Semiconductor

- Online Wafer-Level High Aspect Ratio TSV Inspection Technology
- Non-Volatile Memory Technology

Communication

- Taiwan's First Low Earth Orbit Communications Satellite Prototype System
- Millimeter Wave Materials, Verification, and Component Module Technologies

Smart Sensing

- Smart Utility Meter Verification System
- Optical Air Quality Sensor