

UNIVERSITY FOR **INDUSTRY**, IN ACTION

SIT strengthened its partnerships with industry to deliver education, research, and workforce development that meet evolving economic and societal needs. Through industry-informed learning, applied research, Continuing Education and Training (CET), and enhanced career development initiatives, the University equips students, alumni, and professionals with the skills and opportunities to thrive in a rapidly changing world.

Partnerships

In FY2025, SIT's applied learning and research ecosystem grew through expanded partnerships with industry and government agencies.

SIT signed **28 new Memoranda of Understanding (MOU)** with industry and academic partners. These collaborations cover applied research, education, co-development of Pre-Employment Training (PET) and CET modules, IWSP opportunities, and academic exchanges.

Notable MOU signings included:

- **Schneider Electric:** This collaboration helps manufacturing SMEs accelerate their sustainability journey through applied research, energy optimisation and workforce upskilling. The collaboration combines SIT's academic expertise with Schneider Electric's industry experience to drive decarbonisation and improve energy efficiency.
- **Civil Aviation Authority of Singapore:** This MOU supports the growth of Singapore's aviation talent pipeline. The partnership will expand aviation-related education and training, raise awareness of aviation careers, and align programmes more closely with industry needs.



► SIT's collaboration with Schneider Electric aims to help manufacturing SMEs achieve their sustainability goals.

- **Singapore Army:** Building on an existing partnership, SIT broadened its collaboration with the Singapore Army to deepen talent development, applied research and industry engagement through the Army-SIT Systems Engineering & Technology Living Lab (ASSET LL). The enhanced partnership also creates opportunities for IWSP placements and Army personnel to contribute as adjunct faculty.
- **Frasers Hospitality:** This partnership advances Singapore's hospitality sector through the co-development of education programmes and joint research, focused on service excellence, sustainability and digital transformation.
- **SingHealth:** SIT and SingHealth enhanced their collaboration to support healthcare education, applied research and workforce development. The partnership will provide students with industry learning opportunities while supporting innovation to meet the evolving needs of Singapore's healthcare sector.
- **JTC Corporation:** As part of JTC's Industry Connect initiative, SIT joined other Institutes of Higher Learning and industry partners to accelerate digitalisation, innovation, sustainability and talent development across Singapore's industrial ecosystem through closer academia-industry collaboration.



► SIT's MOU with DNV (left image) and RINA (right image) to support maritime education, research and talent development.



► SIT and SingHealth enhanced its collaboration to support healthcare education.

- **DNV Singapore:** SIT renewed and grew its partnership with DNV Singapore to support maritime education, talent development and research. The collaboration will build capabilities in areas such as simulation-based ship design, competency-based education, and next-generation zero-emission and autonomous maritime technologies.
- **RINA:** The MOU advances maritime education, applied research and industry collaboration. It supports talent development through student mobility and postgraduate programmes while driving innovation in sustainable energy, process certification and future ship and system design.

New Labs

The Offshore & Marine Digital Learning Lab: Established with Seatrrium, this lab strengthens SIT's industry collaboration in maritime sustainability, 5G-enabled industrial use cases, robotics, and digital yard technologies, including energy digital twin modelling, remote operations, and AI-enabled optimisation of offshore and marine systems.

Autonomous Systems and Applied Intelligence Laboratory (ASAIL): In collaboration with DSO, this lab advances research in robotics, unmanned systems, and cybersecurity while exploring emerging areas such as 5G-enabled robotics communications and sustainable maritime technologies. The launch also connected 86 Engineering and ICT students with DSO researchers, providing insights into career opportunities and cutting-edge defence research.

Power Systems Lab: The Power Systems Lab collaborates with the Land Transport Authority and Meiden Singapore. It provides students and industry professionals with hands-on training in railway power distribution systems and virtual-reality simulations of substation operations, strengthening rail engineering capabilities.

Lifelong Learning & Sector Capability Building

SIT*LEARN* extends SIT's applied learning approach beyond PET to help working professionals build new capabilities. Through partnerships with industry, it delivers flexible, stackable learning pathways that respond to emerging skills needs and support lifelong career development.

In 2025, SIT*LEARN* launched Executive Education Programmes to strengthen sustainability capabilities across key growth sectors, underscoring SIT's commitment to industry-relevant, future-focused, and applied lifelong learning. Designed for executives and based on SIT's Active Learning, Authentic Learning, and Applied Learning pedagogies, the programmes equip learners with practical competencies to address evolving sustainability and infrastructure challenges.

At the SIT Punggol Campus, learning is enriched through immersive gemba journeys across campus Living Labs, industry engagements, and facilities such as the Energy Efficiency Technology Centre (EETC) and the campus district cooling system.

Under the Sustainable Infrastructure Series, SIT*LEARN* offers four flagship Executive Education Programmes:

- Design and Performance Assessment of Low Carbon Buildings
- District Cooling Systems: Technologies, Components, and Sustainable Engineering
- Sustainable and Resilient Data Centres
- Electric Vehicles and Charging Infrastructure for Decarbonisation of Land Transportation



SIT Photo

► SIT*LEARN* Executive Education course held in a lectorial at SIT Punggol Campus.



SIT Photo

► SIT*LEARN* Executive Education site visit to BYD Kranji Workshop.

Applied Research

Applied research at SIT is use-inspired and impact-driven, addressing industry and societal challenges. It also strengthens our applied learning pedagogy. We work closely with industry to translate ideas into solutions that can be tested, validated, and deployed in real-world environments, accelerating industry innovation.

Key Research Projects Awarded:

Built Environment

SIT's low-carbon concrete innovation, developed by the Construction Technology Innovation Laboratory (CTIL), was featured in Singapore's RIE2030 Handbook as a key RIE2025 achievement. Building on CTIL's success, SIT secured its first Industry Alignment Fund - Industry Collaboration Project (IAF-ICP) grant. This programme, led by CTIL, in collaboration with A*STAR and industry partners, aims to facilitate decarbonisation by advancing sustainable construction materials, structural systems, and reusability solutions to support Singapore's 2050 net-zero commitment.

Food Innovation

SIT, in collaboration with A*STAR and Mycrocell Pte Ltd, was awarded a four-year project under the Singapore Food Story R&D Programme. Titled "Integrated Processing for Enhanced Techno-functional Properties and Nutritional Value of Alternative Protein", the project will develop an AI-powered food processing platform to produce alternative proteins with improved taste and nutritional profiles, and develop innovative nutritious products from sustainable ingredients cultivated in Singapore, such as mushroom mycelium. The project aims to set new benchmarks for food innovation, accelerating the adoption of alternative proteins as a mainstream dietary choice and strengthening Singapore's food resilience and sustainability goals.

Scaling Innovation across the Ecosystem

In 2026, SIT strengthened its role as a key innovation partner for industry through the launch of the Innovation-as-a-Service (IaaS) initiative. IaaS, supported by NRF and MOE, serves as a central focal point for industry to tap on expertise, capabilities and resources across SIT and its ecosystem partners to advance industry innovation and technology translation.

SIT's partners can leverage SIT's location in the Punggol Digital District (PDD) to trial innovations in a live environment, using real-time data from its Living Lab Network which supports applied research validation and hands-on learning.

The University is also advancing innovation in key domains like AI and robotics through its Centre for Intelligent Robotics. These efforts, combined with learning opportunities for students and PDD's smart precinct infrastructure, position SIT at the forefront of applied innovation and future-ready ecosystems.

Growing the Next Generation of Future-Ready Talent

SIT strengthens the research-education link by embedding real-world applied research into curricula, internships, and capstone projects, ensuring students gain hands-on, industry-relevant experience. Additionally, Industrial Doctorate/Industrial Master's (ID/IM) programmes saw a 48% increase in student enrollment, rising from 66 students in AY2024 to 82 students in AY2025. Two Doctoral Training Centres-the Maritime Engineering Doctoral Training Centre (MEDTC) and the Applied AI Doctoral Training Centre (AADTC)-were also launched to nurture future specialists and leaders for the maritime and applied AI sectors.

Applied Research Impact in FY2025



► SIT's CTIL secured a grant to accelerate innovations in sustainable construction materials, structural systems and reusability solutions.



Awarded
\$49.2m
in external research grants



Secured
\$44.9m
in industry contributions
(cash and in-kind)