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Singapore launches new robotics and advanced pharma manufacturing degrees

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Two new degree programmes in robotics and advanced chemical and pharmaceutical manufacturing



Nanyang Technological University, Singapore (NTU Singapore) is introducing two new undergraduate degree programmes in robotics and advanced chemical and pharmaceutical manufacturing in August 2025. The two programmes are designed to meet an anticipated global demand for roboticists as industries continue to automate and cultivate a pipeline of talent with a unique skill set spanning chemistry and chemical engineering for Singapore's advancing high-tech economy.

The Bachelor of Engineering in Robotics focuses on acquiring practical and future ready robotics skills that are relevant to industry needs and is in line with Singapore's vision to become a Smart Nation.

The Double Major Bachelor of Engineering Science in Process Engineering and Synthetic Chemistry (PESC) aims to nurture a new breed of graduates who can navigate the intricacies of chemistry and chemical engineering, a unique skillset that is currently lacking, and boost Singapore's efforts to become a hub for advanced manufacturing and innovation.

The PESC double major programme, offered by the School of Chemistry, Chemical Engineering and Biotechnology (CCEB), is developed with feedback from NTU's partners in the pharmaceutical, petrochemical, semiconductor and information technology industries.

Students can also opt to do a specialisation in either Advanced Pharmaceutical Manufacturing or in Machine Learning and Data Analytics.

Both programmes are interdisciplinary in nature and will incorporate courses on concepts such as artificial intelligence (AI) and machine learning to ensure students thrive in the ever-evolving scientific and industrial landscape.