

INFORMATION SYSTEMS TECHNOLOGY AND DESIGN (ISTD)

DIFFERENCES BETWEEN

A TRADITIONAL COMPUTER SCIENCE GRADUATE	AN ISTD GRADUATE	A TRADITIONAL INFORMATION SYSTEMS GRADUATE
<ul style="list-style-type: none"> Has a solid understanding of the technical foundations of computer science. Acquires a wide range of computing knowledge from its theoretical and algorithmic foundations to cutting-edge development. Develops effective ways to solve computing problems. Develops in-depth knowledge in one or more computer science specialisations. 	<ul style="list-style-type: none"> Has the same basic skills of a computer scientist but combines that with expertise in a: <ul style="list-style-type: none"> - multi-disciplinary design approach - systematic design approach Has a comprehensive understanding of the social, cultural, political, and economic dimensions of the world that he or she is creating, designing, and building for. Works on cross modular projects and is trained to develop problem-driven computing solutions instead of just technology-driven solutions, which often do not solve the root of a problem. Has a holistic view of any problem and applies technically sound computing solutions as well as industry-relevant solution management. 	<ul style="list-style-type: none"> Has an acute awareness of the business needs that computing technologies can fulfil. Focuses on integrating information technology and business processes to meet the information needs of businesses and other enterprises. Enables businesses to achieve their objectives in an effective and efficient way. Develops innovative and value-adding solutions for business and society.
CAREERS		
<ul style="list-style-type: none"> Application/System Programmer Software, Web and Multimedia Developer/Engineer System Analyst Security Specialist Researcher/Scientist Data Scientist 	<ul style="list-style-type: none"> Finds employment across the same spectrum of industries that employ traditional computer scientists and information systems engineers, with the agility and ability to excel beyond careers in these industries due to the multi-disciplinary and design-oriented training. 	<ul style="list-style-type: none"> Business Consultant/Analyst System Design/Administration Information Security Analyst Database Management/Administration Network Architect Project/Product Management Web Content Management

ALUMNI TESTIMONIALS



SUTD equipped me with a solid technical foundation and practical application of concepts, allowing me to put them to use when I joined GovTech to develop citizen-centric products. In the increasingly complex world we live in today, multi-faceted problems can no longer be solved within a single area of expertise. SUTD has helped me broaden my skillsets in collaborating with cross functional teams, understanding and solving complex problems as well as exploring innovative approaches to meet user needs. Working on multi-disciplinary projects at SUTD and the study of the arts and humanities have provided me with multi-perspective analytical skills.

Janice Tan, Associate Software Engineer, Government Digital Services Agile Consulting and Engineering
Class of 2016, ISTD Alumnus



Although I'm envious of the radical new opportunities that the current batches get to enjoy with new academic modules, specialisation tracks, double degree programmes and exciting exchange programmes; they'll never get to experience the novelty and thrill of being Pioneers.

Aside from a world-class education in the ISTD Pillar, SUTD has unconditionally supported my peers and me in a myriad of unorthodox ventures - from setting up a beer brewery student club during our first year to converting our final year capstone project into a start-up by providing industrial and academic expertise in addition to monetary support and incubation facilities. We owe it all to SUTD!

Aditya Batura, Co-Founder and CEO, Codomo
Class of 2015, ISTD Alumnus



Apart from deep technical skills, at SUTD, I developed a keen understanding of a universal design methodology that is necessary to tackle large, complex and abstract design problems. We were trained not to shy away from interdisciplinary problems but to embrace them. It has enabled me to traverse through leading institutions both in business (Citi) and academia (Cambridge University). It is this compatibility of SUTD's education with the needs of real businesses that the SUTD pedagogy shines.

Joshua Cheong, Graduate Student in Technology Policy, University of Cambridge, First Commonwealth Scholar in Innovation
Class of 2015, ISTD Alumnus

EMPLOYER TESTIMONIALS



Upon being hired, the SUTD ISTD graduates are first placed in Citi's Technology Analyst programme which provides them with the exposure needed to get a good understanding of the bank. The programme also serves as a feeder into Citi's Next Gen Programme, enabling these employees to continue advancing their expertise in the technological space. We are pleased to note that the graduates displayed intellectual curiosity, learning agility and resilience. Coupled with a passion for digital innovation, these young professionals possess the skill sets relevant to the future of banking.

Citi Singapore



In our experience, ISTD graduates have been universally bright, capable, and ready to do complex engineering work. At Pivotal Labs, we expect our engineers to be able to not only code well, but also be able to teach engineering best practices to the largest and most important organisations in Singapore. We have hired several ISTD graduates, and they all came in with the theoretical and practical skills to immediately start having a high impact.

An SUTD ISTD degree is one of the first things that we look for when we are hiring.

David Varvel, Engineering Director
Pivotal Labs



Practical innovation, driven by purpose, and customer focused - these are qualities that SUTD graduates bring to the table - qualities that NCS also believes in when we deliver digital solutions to our clients. This alignment makes SUTD's ISTD graduates much sought after in our industry that is driven by digital disruption and yet presents opportunities for us to help our clients transform the way NCS drive business value.

Gerard Koh, Head of HR
NCS