Embrace Change in the Century of Engineering
World Rankings of HKUST School of Engineering

No.1
in Hong Kong

No.18
in the World in the area of Engineering & Technology

Times Higher Education World University Rankings, 2018

HKUST in QS World University Rankings by Subject - Engineering & Technology (2018)

<table>
<thead>
<tr>
<th>Subject</th>
<th>World Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Engineering</td>
<td>World No. 30 (No. 1 in Hong Kong)</td>
</tr>
<tr>
<td>Civil &amp; Structural Engineering</td>
<td>World No. 24</td>
</tr>
<tr>
<td>Computer Science &amp; Information Systems</td>
<td>World No. 14 (No. 1 in Greater China)</td>
</tr>
<tr>
<td>Electrical &amp; Electronic Engineering</td>
<td>World No. 23 (No. 1 in Hong Kong)</td>
</tr>
<tr>
<td>Mechanical, Aeronautical &amp; Manufacturing Engineering</td>
<td>World No. 24 (No. 1 in Hong Kong)</td>
</tr>
<tr>
<td>Statistics and Operational Research</td>
<td>World No. 26 (No. 1 in Hong Kong)</td>
</tr>
</tbody>
</table>

No.17
in the World in the area of Engineering & Technology

QS World University Rankings, 2018
## Why HKUST Engineering?

3

## Dynamic Programs

7

## What is Engineering?

9

- BEng in Aerospace Engineering
- BEng in Bioengineering
- BEng in Chemical Engineering
- BEng in Chemical and Environmental Engineering
- BEng in Civil Engineering
- BEng in Civil and Environmental Engineering
- BEng in Computer Engineering
- BEng / BSc in Computer Science
- BSc in Data Science and Technology
- BEng in Decision Analytics
- BEng in Electronic Engineering
- BEng in Industrial Engineering and Engineering Management
- BEng in Mechanical Engineering
- BEng in Sustainable Energy Engineering
- BSc in Integrative Systems and Design

## The HKUST-Exeter Program in Engineering & Law

21

## Admission Requirements

23

## Enriching Total Learning Experience

25
WHY HKUST ENGINEERING?
World-Class Professors

The research excellence of School of Engineering academics is globally renowned, which empowers teaching and learning to be conducted at the forefront of the state-of-the-art in both established and emerging engineering fields. At HKUST, 100% of our professors hold PhD degrees from first-class universities around the world, including: Caltech, Cambridge, MIT, Oxford, Princeton, Purdue, Stanford, Tokyo, Toronto, UC Berkeley, Yale, etc.

International Professional Recognition

Engineering programs offered by HKUST are accredited by the Hong Kong Institution of Engineers. Through the Washington Accord, HKUST engineering degrees and those awarded by universities in around 20 countries, including Australia, Canada, Korea, Malaysia, Singapore, New Zealand, the United Kingdom and the United States are mutually recognized. Programs related to computing and IT-related technologies are recognized under the Seoul Accord, which signatories include Australia, Canada, Japan, Korea, the United Kingdom and the United States. Through the Washington Accord and Seoul Accord, HKUST engineering degrees are widely recognized around the world, thus opening up an international spectrum of jobs and career prospects.
Learning at HKUST is never restricted to the classroom. A multitude of global learning experiences are available to engineering students – the World is their classroom!

**Overseas Exchange**
Around 40% of engineering undergraduate students spend a term outside Hong Kong every year in one of the 120+ host institutions. Only the normative HKUST tuition fee is charged.

**Study Abroad**
Access to a wide range of study abroad programs through HKUST’s extensive collaborative network with overseas universities. Discounts on tuition fee or scholarships to HKUST students are offered on some programs.

**International Research**
Ideal for students who have a craving for working in an international research team. Besides the Engineering-only Princeton program, research opportunities with other top-notch research universities are also available through the various alliances that HKUST has entered into. (More details about the Princeton Summer Research Program on p.29)

**Global Virtual Exchange**
Learning without borders – participation in credit-bearing courses offered by top overseas universities without even stepping out of the HKUST campus.
Eden TI
BEng (Chemical Engineering) and BBA (General Business Management)
University College London (UK)

“Learn how to become more independent and mature. No one was making decision for me anymore. Things was never as hard as I thought it to be. In the future, I would try my best to achieve more in different areas.”
"Engineering PLUS" Curriculum

Under the 4-year School-based program, all students will be admitted first to the School rather than to individual programs. They will have at least one year to explore various engineering disciplines before making their choice. Upon completion of the first year, students will be able to select a discipline within the School or take up an interdisciplinary program.

The engineering curriculum encompasses a student-centered and broad-based program structure, enabling students to take other minors or additional majors beyond the first major program.

Students with substantial credit transfer upon admission may be able to graduate in less than four years.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2 &amp; Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Introductory Courses</td>
<td>Major Foundation and Core Courses</td>
<td>Capstone Final Year Project</td>
</tr>
<tr>
<td>Engineering Fundamentals*</td>
<td>Selection from list of In-depth Specialty Courses</td>
<td>University Core Education</td>
</tr>
</tbody>
</table>

Optional Minor & Enrichment Programs
- Minor Programs
- UROP* (Undergraduate Research Opportunities Program)
- Internship
- Exchange
- Competitions


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Students with substantial credit transfer upon admission may be able to graduate in less than four years.
As the leading engineering school in Hong Kong, the School of Engineering at HKUST offers a wide spectrum of engineering programs, including:

**Major Programs**

- BEng in Aerospace Engineering
- BEng in Bioengineering
- BEng in Chemical Engineering
- BEng in Chemical and Environmental Engineering
- BEng in Civil Engineering
- BEng in Civil and Environmental Engineering
- BEng in Computer Engineering
- BEng/BSc in Computer Science
- BSc in Data Science and Technology*
- BEng in Decision Analytics
- BEng in Electronic Engineering
- BEng in Industrial Engineering and Engineering Management
- BEng in Mechanical Engineering
- BEng in Sustainable Energy Engineering
- BSc in Integrative Systems and Design

Besides, engineering students may also select any one of the interdisciplinary majors after one year of study at the School.

- Dual Degree Program (BEng and BBA) in Technology and Management
- Dual Degree Program (BSc and BBA) in Biotechnology and Management
- BSc in Environmental Management and Technology
- BSc in Risk Management and Business Intelligence
- BSc in Individualized Interdisciplinary Major

**Minor Programs**

Students may also choose to enrich their learning experience by taking up minor program(s). The following are some of the minor programs available in 2018-19, and are all open to eligible undergraduate students enrolled in the School of Engineering.

- Actuarial Mathematics
- Aeronautical Engineering
- Astrophysics and Cosmology
- Big Data Technology
- Bioengineering
- Biotechnology
- Business
- China Studies
- Design
- Entrepreneurship*
- Environmental Sustainability and Management
- Humanities
- Information Technology
- Robotics
- Social Science
- Sustainable Energy Engineering Technology Management

* jointly offered by School of Engineering and School of Science
# jointly offered by School of Engineering, School of Business and Management and School of Science
WHAT IS ENGINEERING?

As the dual winner of the HK Top 10 Outstanding Youth and Social Service Award in 2014, I have served the university and community throughout my 3 years at HKUST. Upon graduation, I worked at the United Nations Headquarters in New York on health and environmental literacy. I realized chemical engineering knowledge and the engineering mindset that I learnt in HKUST were indeed very useful, and inspired me that the true meaning of life is to empower people to create positive change.”

Samantha KONG
2014 BEng (Chemical and Environmental Engineering)
Graduate Environmental Engineer, SMEC Asia Limited
Engineering involves the acquisition and application of scientific, mathematical, economic, social, and practical knowledge to solve problems in our daily lives. Engineers are therefore problem-solvers who make things work more efficiently and effectively at lower costs.

Engineering helps to improve our modern life, as exemplified by great engineering inventions such as computer chips, satellites, medical devices and renewable energy technologies, etc. The work of engineers can be experienced in all parts of our daily lives which include making a call with mobile phone, playing internet games, managing investments, shopping online, riding on a vehicle, walking across a bridge and even wearing body lotion. Engineering is everywhere in the world around us.

**BEng in Aerospace Engineering**

The Program aims at equipping graduates with necessary understanding of the essential disciplines of aerodynamics, structures, vehicle dynamics and control, propulsion, aero elasticity and interdisciplinary design with a strong theoretical base which is well suited for careers in aerospace and related engineering fields.
**BEng in Bioengineering**

Bioengineering lies at the boundary of engineering and the life sciences. Bioengineers are inherently interdisciplinary, and are uniquely positioned to use engineering principles to tackle medical challenges and improve human health. At the same time, bioengineers are the ones who can best bring the immense power of biology to bear on our most pressing challenges, ranging from energy shortage, food and water security, environmental pollution, and an ageing population. The program features a solid foundation of mathematics and sciences specially designed for bioengineers, core subjects in the key areas in bioengineering, and two areas of specialization [data-oriented, and molecular-oriented]. Graduates are expected to thrive in the rapidly changing landscape of bioengineering as innovators, researchers, clinical scientists, and entrepreneurs.

**BEng in Chemical Engineering**

Chemical Engineering is a discipline in which the principles of physical, chemical and natural sciences are used to solve applied chemistry related problems in manufacturing processes and plants. Students learn to design a manufacturing plant; transform raw materials into valuable products; purify the products to meet consumer demands; ensure high quality standard; automate the plant to make production safe and economical; minimize waste and pollution; market and sell the products at a profit; and work effectively with chemical engineering equipment.
This program emphasizes processes that turn raw materials into valuable products without producing effluents and wastes. All companies handling such processes need environmental engineers with a basic knowledge of chemical engineering to design, control, manage and operate environmental treatment facilities. This combined degree enables students to understand various industrial processes and realize where environmental control measures can be implemented, thus making the community a better place to live in.

BEng in Chemical and Environmental Engineering

Civil Engineering concerns the planning, design, construction, maintenance and management of various structures such as buildings, bridges, roads, railways, tunnels, slopes, airports, harbor facilities, solid waste treatment and landfills, water/sewage treatment plants, dams, water pipes, gas mains, etc. In short, Civil Engineering is about the infrastructure of modern civilization.

BEng in Civil Engineering

Exchange in Berkeley means a lot to me, it made me realize I am much more capable than I thought I am, it changed my perspective of world, and it definitely changed my life.”
Computer Science studies the application of computers in solving important problems in scientific, engineering and commercial domains. BEng in Computer Science provides a broad education in all core areas of Computer Science, which includes programming, data structures and algorithms, operating systems and software engineering. Students can then choose to learn diverse areas of computer science, such as databases and data mining, networking, embedded systems, computer graphics, image processing, artificial intelligence, machine learning, computer vision, computer security, and theoretical computer science.

BEng in Civil and Environmental Engineering

The program provides broad engineering training with an emphasis on the areas of water and wastewater engineering, solid and hazardous waste management, and air/noise pollution control. As environmental quality is a major public concern all over the world, along with the rapid economic development in Hong Kong, more and more resources will be committed to improving and managing our environment. Thus, there will be a great need for properly trained environmental engineers.

BEng in Computer Engineering

Computer Engineering focuses on the design and implementation of computer systems, from embedded microprocessors, notebook/desktop computers to supercomputers, as well as how they are integrated with other systems to meet the challenges of real-world applications. It bridges the gap between computer science and electronic engineering, and offer students a balanced training on both hardware and software skills, by taking full advantages of the human resources and laboratory facilities of both Department of Electronic & Computer Engineering and Department of Computer Science & Engineering. It’s a well-integrated 2 in 1 program!

BEng in Computer Science

Computer Science studies the application of computers in solving important problems in scientific, engineering and commercial domains. BEng in Computer Science provides a broad education in all core areas of Computer Science, which includes programming, data structures and algorithms, operating systems and software engineering. Students can then choose to learn diverse areas of computer science, such as databases and data mining, networking, embedded systems, computer graphics, image processing, artificial intelligence, machine learning, computer vision, computer security, and theoretical computer science.
The Program equips students with various mathematical tools, data analytical skills and IT technologies to make sense of data obtained from various sources and to utilize them. For example, in industry, data science and technology would help to improve their productivity, whereas in commerce, it would serve as quick analytics to predict the stock price, design new investment tools, etc. Through four years of rigorous training, students are expected to be well versed with useful tools to deal with data such as data analytics, programming skills and mathematical modeling, all of which give students a solid foundation for their future career.

(Jointly offered by the Department of Mathematics and the Department of Computer Science and Engineering)
Our new major in Decision Analytics was introduced in 2018 to align the aspirations of students with current and future societal needs of the knowledge economy. Students are trained to analyze real-world data, build and fit models that are consistent with data, develop algorithms, simulate models, and design process and system innovations seeking optimal solutions to important decision problems in domain specific areas such as Financial Engineering and Consulting Services. Graduates who are equipped with predictive and prescriptive analytical tools will be better able to source high-value added jobs in banks, insurance companies, consulting-firms, e-commerce, travel and leisure industry and health-care organizations.

Ivan GONDOPRASTOWO
from Indonesia 2014 BEng (Computer Science)
Banking and Finance Executive, JPMorgan Chase & Co.

“Global opportunities offered by HKUST are just priceless. Being a part of one of the world’s renowned universities certainly opens up exciting opportunities in Hong Kong, Mainland China, and the world... I spent a summer in India and joined a prestigious internship program by an IT giant, Infosys. I went to Tsinghua University for a short-term exchange program and spent my penultimate year summer with one of the biggest financial services firm in the world, J.P. Morgan, at their APAC Headquarters in Hong Kong. I believe that the training, network, partnership and HKUST worldwide recognition are the ones that make this kind of experience possible, and HKUST is one of the few universities in Asia, or in the world, that has all these to offer.”
Frank WANG
2006 BEng (Electronic Engineering)
2011 MPhil (Electronic and Computer Engineering)
Founder and Chief Executive Officer, DJI Innovations

HKUST provided me with excellent opportunities to explore my interests outside the classroom, and I also found a professor willing to support me in ways that have helped me immensely over the years. Learning the fundamentals in my electronics courses and taking part in Robocon Competitions helped me build a solid foundation in remote-controlled flying machines. HKUST taught me the importance of being a good team player and a disciplined perfectionist. This just shows that in addition to its solid curriculum, HKUST has excellent professors who always find ways to inspire. They have a global vision, and while some have a great entrepreneurial spirit, others are very scholarly.”

BEng in Electronic Engineering

The program covers a wide scope of modern technologies including biomedical electronics, circuit design, communications and networks, computer engineering, microelectronics, photonics and optics, signals and information processing, and systems and automation. These areas are critical to the growth of our information-based society and mastering these technologies should open up vast career opportunities.
BEng in Industrial Engineering and Engineering Management

Industrial Engineering is the active and dynamic discipline of advanced scientific management – the engineering of making smart decisions. By adopting a decision analytics approach with the use of real-world data to drive decision models, graduates of this program are equipped with strong analytical skills as well as the ability to develop algorithms and simulation models for decision-making in domain specific knowledge of problems ranging from operations planning and scheduling to transportation systems and policies, and from global supply chain management to quality control.
The program is structured in three stages. The first stage concentrates on the fundamentals of mechanical engineering. The second stage integrates engineering sciences with laboratory work and exposes students to state-of-the-art tools and equipment. The third stage comprises electives that provide students with sufficient depth in one of the following areas of specialization: (i) Building Services, Energy and Environmental Engineering, (ii) Mechatronics, Design and Manufacturing, and (iii) Structure, Materials and Reliability Engineering.

BEng in Sustainable Energy Engineering

Sustainable Energy Engineering is an inter-disciplinary program covering energy generation, delivery, efficiency, conversion and storage, sustainability, and energy policy. It aims to develop leading professionals who can design and implement both traditional and renewable energy systems to respond to expanding global environmental and energy needs. This advanced training enables graduates to develop career in the government and companies in energy related fields.

BSc in Integrative Systems and Design

This program provides a multi-disciplinary training to students in integrative systems and design. It adopts a student-centric curriculum, which is created based on their talents and interests, and a project-based learning approach in which students study and work in teams. Students acquire knowledge in design and systems thinking, specific technology and entrepreneurial spirit through learning-by-doing. The birth of disruptive innovations requires both cutting-edge science and engineering advancement and creates a huge demand for innovators who can integrate know-hows that span different disciplines in a user-oriented and human-centered mindset.
THE HKUST-EXETER PROGRAM IN ENGINEERING & LAW

Engineering + Law

With a view to broaden the engineering education with a legal dimension, the HKUST School of Engineering has partnered with the University of Exeter, UK, to provide an accelerated pathway for its students to earn a BEng or BSc degree in Engineering or Computer Science from HKUST AND a law degree from the University of Exeter within 5 years. Under this framework, students from HKUST will complete the first 3 years at HKUST, and attend the University of Exeter for 2 more years in Year 4 and Year 5. For Year 4, students will enjoy a tuition waiver from the University of Exeter and will only be charged the normative HKUST tuition fee payable to HKUST.
For the law degree, two pathways are available at the University of Exeter – Juris Doctor (JD) and Master of Laws (LLM). The JD degree provides the academic stage of qualification for students who wish to take up a career in the legal profession*.

The LLM, on the other hand, does not lead to any professional qualification, but equips students with knowledge and insights into the legal system, which can be widely applied to a broad range of careers and industries.

<table>
<thead>
<tr>
<th>Year 1 and Year 2</th>
<th>HKUST Engineering Program Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2 (Summer)</td>
<td>Contract Law</td>
</tr>
<tr>
<td>Year 3</td>
<td>HKUST Engineering Program Requirements</td>
</tr>
<tr>
<td>Year 4</td>
<td>JD pathway</td>
</tr>
<tr>
<td></td>
<td>• Engineering/Computer Science courses</td>
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<tr>
<td></td>
<td>• Engineering/Computer Science project</td>
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<tr>
<td></td>
<td>• JD courses</td>
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<tr>
<td></td>
<td>LLM pathway</td>
</tr>
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<td></td>
<td>• Engineering/Computer Science Project</td>
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<tr>
<td></td>
<td>• Law courses</td>
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<tr>
<td></td>
<td>(to fulfil prerequisites for LLM courses)</td>
</tr>
<tr>
<td>Year 5</td>
<td>JD courses</td>
</tr>
<tr>
<td></td>
<td>LLM courses according to LLM Pathway chosen</td>
</tr>
<tr>
<td></td>
<td>either International Commercial Law or Intellectual Property Law</td>
</tr>
<tr>
<td>Year 5 (Summer)</td>
<td>Master Law research paper</td>
</tr>
<tr>
<td></td>
<td>Master Law Dissertation</td>
</tr>
</tbody>
</table>

Subject to fulfillment of all relevant degree requirements, students will be awarded a BEng or BSc degree in Engineering or Computer Science by HKUST at the end of Year 4, and either the JD or LLM by the University of Exeter at the end of Year 5.

*Note: At the time of publication of this brochure, the University of Exeter JD degree forms the academic stage of qualification for students who wish to practice Law in the UK. It covers all of the foundation subjects required by the UK’s Solicitors Regulation Authority. For practicing law in Hong Kong, the JD degree provides the majority of the academic study required for admission to the PCLL (Postgraduate Certificate in Laws), which is the next step towards qualification in Hong Kong.
ADMISSION REQUIREMENTS
Applicants with Hong Kong Diploma of Secondary Education (HKDSE) results must meet (i) General requirements, and (ii) School-specific Subject requirements*:

### General Requirements

#### Notes:
- M1: Mathematics Extended Module 1 (Calculus & Statistics)
- M2: Mathematics Extended Module 2 (Algebra & Calculus)

#### A 4 CORES

- Chinese Language: LEVEL 3
- English Language: LEVEL 3
- Maths. (Compulsory Module): LEVEL 3
- Liberal Studies: LEVEL 2

### B ELECTIVES

- Elective 1: LEVEL 3
- Elective 2: M1 / M2: Maths. (Compulsory Module)

School-specific Requirements*:
- One of: Biology / Chemistry / Physics / Combined Science / ICT

### For Applicants with International Qualifications

HKUST recognizes various international qualifications for admissions. The following list shows some of the examples and is by no means exhaustive.

### General Admission Requirements

1. American Patterned System [SAT/AP]
2. British Patterned System [GCEAL/IAL]
3. Canadian Curriculum
4. Indian Curriculum
5. Indonesian Curriculum
6. International Baccalaureate
7. Malaysian Curriculum (STPM or UEC)

### Others

Many more qualifications recognized by HKUST for admission can be found at http://join.ust.hk

### School-Specific Subject Requirements

Senior High School Mathematics **AND**

One Senior High School subject from Physics, Chemistry, Biology, Computer Studies, Statistics

(Other relevant subjects may also be considered.)

*Design related subjects will also be considered by the BSc in Integrative Systems and Design Program, e.g. Design & Applied Technology in HKDSE.
ENRICHING TOTAL LEARNING EXPERIENCE
Apart from the formal curriculum, students at the HKUST School of Engineering can develop their potentials and learn outside the classroom through various co-curricular programs.

**Local, National, and International Competitions**

Competitions participated by HKUST Engineering students cover a wide range of themes ranging from underwater robots, smart car, solar car to powered wheelchair, aeronautics. Through the competitions, not only can students enhance their communication and interpersonal skills, but can also sharpen their creativity, problem-solving, and management skills which will better prepare them for their future careers.
Undergraduate Student-initiated Experiential Learning Program (USEL)

Creativity is an important attribute of university graduates of the 21st Century. To nurture students’ creativity, SENG provides student-driven practicum opportunities to all UG students through its Undergraduate Student-initiated Experiential Learning (USEL) Program. Through this program, students are encouraged to initiate projects of their interest and carry it out under guidance of faculty members. An experiential learning lab that allows students 24-hour access has been established by the School of Engineering to facilitate students’ work. A second one is to follow suit. Furnished with facilities and equipment applicable to a wide range of disciplines, the experiential learning lab provides the physical platform where students can realise their dreams.

Henry CHAN
BEng [Computer Engineering]
Participated in HKUST Robotics Team 2011

“It is a valuable and wonderful experience to join HKUST Robotics Team. I am so glad to represent Hong Kong at the ABU Asia-Pacific Robot Contest (commonly known as Robocon) 2011 in Bangkok. We faced a lot of challenges during the competition, particularly the unexpected game field environment in Thailand. We had to find solutions to overcome the obstacles within limited time frame. This provides me good training on problem-solving and time management, which is essential to my future career. What is more, taking part in this international Robocon competition allowed me to share ideas and experience with teams from different countries.”
Undergraduate Research Opportunities Program (UROP) is one of HKUST’s signature programs designed to provide a unique opportunity for undergraduate students to actively engage in academic research at undergraduate level under the guidance and supervision of professors. Selected students may also participate in International Research Opportunities Program (IROP) --- an overseas version of UROP --- through which students can carry out research at top-notch overseas universities.
Research at Princeton

In addition to UROP, SENG offers research-based summer program with the Princeton University. Exclusively for engineering undergraduates, the program lasts for around 8 weeks enabling engineering students to be engaged in research with Princeton’s faculty members on designated research projects. Students not only conduct academic research in an international setting, but also gain invaluable cultural exposure through staying abroad and interacting with people with diverse backgrounds.

“Princeton exchange was a great experience. Applying for this program was one of my best decisions I have ever made. If anyone is seeking for great research and outreaching experiences, I would definitely recommend Princeton Summer Research Exchange without any hesitation. Do not be nervous or over worried. Keep calm and go to Princeton!”

Jungsun KIM
BEng (Civil and Environmental Engineering)
Participated in Princeton UG Summer Research Program, Summer 2014
Seeing internship as an important complement to a student’s education, SENG’s Center for Industry Engagement and Internship (IEI) was established to cultivate its students’ early exposure to professional work experience via internship. The Center serves as the official interface between the industry and the School. Through internships, we facilitate our students in identifying their passion and interest in career choices and to helping them build up their career path early while still in university.

Mick TSE
2016 BEng (Mechanical Engineering)
Engineer Trainee, Swire Properties Limited

“SENG offers a lot of courses and activities that focus on not only the academic, but also the students’ all-round development, summer camp, experiential learning courses, exchange programmes, to name but a few. Together with the practical experience acquired from the Co-op programme held by the Department of MAE (Mechanical and Aerospace Engineering), I am glad to take up the job duties in a leading developer in Hong Kong.”
**Peer Mentoring Program**

**Learning to Teach, Teaching to Learn**

An effective way to learn is to teach. Through well designed training workshops, senior year engineering students are coached to provide peer mentoring support to freshmen.

The Peer Mentoring Program of the School not only provides the much needed support to freshmen in their transition to university life, but more importantly enables the mentors themselves to reflect on their experience which they can convert to useful advice and guidance to their successors.

**Engineering Student Ambassador Program**

The Engineering Student Ambassador Program is an elite program for students to represent the School and to promote engineering to the prospective students and the general public. It provides an opportunity of a life time for students to develop and become future leaders.

Ambassadors are given ample opportunities to participate in various outreaching activities of the School as well as to meet with many diverse individuals such as overseas delegates and local industry partners. This enrichment program offers engineering students a transformational experience to become multi-faceted professionals.

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**Benny CHEUNG**

2007 BEng (Chemical and Biomolecular Engineering)  
Business Engineer 1, CLP Power Hong Kong Limited

“Back to the time winning the HKUST President’s Cup in 2007, SENG cultivated me to pursue innovation and creativity to make our community better. Equipped with the unique chemical engineering knowledge, I realized that electricity generation can power up everyone’s life reliably but at the same time eco-friendly. I am proud to be the graduate in HKUST and the connection with HKUST is always my greatest support in my whole life.”
Parry CHAN
2016 BEng (Industrial Engineering and Engineering Management)
Graduate Trainee, The Hong Kong and China Gas Company Limited

“I am glad to be an alumnus of HKUST School of Engineering. Industrial Engineering taught me how to make a smart decision, by using different engineering and mathematical tools with the understanding of business world. Today, I am happy to be a member of Towngas, in which I can contribute together with my colleagues in providing our customers with a safe, reliable supply of energy and the caring, competent and efficient service they expect, while working to preserve, protect and improve our environment.”

Sze Lok CHAN
2010 BEng (Computer Science)
Startup Business Development Manager, Hong Kong & Taiwan, Amazon Web Services Hong Kong Limited

“Learn how to learn” is the most valuable lesson that I learnt at HKUST. SENG is not just a school that equips you with all the essential skills that you needed to be an engineer. Instead, you will be taught and trained as a good learner. I have answered questions without right answers, explored areas that didn’t teach in classes and inspired by classmates that keep growing in every aspects through a wide variety of courses, tutorials, industrial trainings and projects. I was also grateful to be supported by the school to join the LIBRA (a 2-week study tour) and exchange program in the summers that have strengthened my language foundation. All of these have paved the way for me to pursue my further study and work in one of the most reputable tech companies today.”