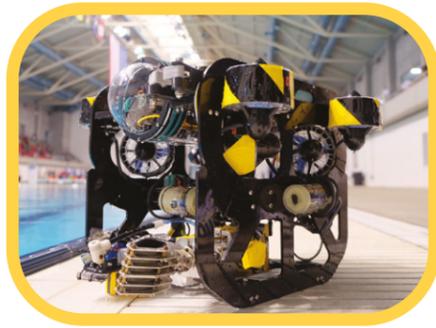


The Engineering Club

Every year our students compete in an underwater remotely operated vehicle competition. They design, build and operate a submarine robot and control system with integrated sensors, cameras and actuators that can perform a variety of tasks at depths of over 5m! In 2018, they qualified to compete at the international level and traveled to the USA to compete in the finals of the Marine Advanced Technology Education competition.



Upstream – The underwater ROV

Comments from our graduates

PolyU provides an excellent learning environment for their students. I have encountered many enthusiastic students who have received precious learning experiences from their professors. During the past two years, I have had many opportunities to broaden my horizons through various training and exchange activities provided by the Departments of Electrical Engineering and Civil and Environmental Engineering. I am now confident that I can face the challenges in my future career as I have acquired comprehensive job-related training and experience.

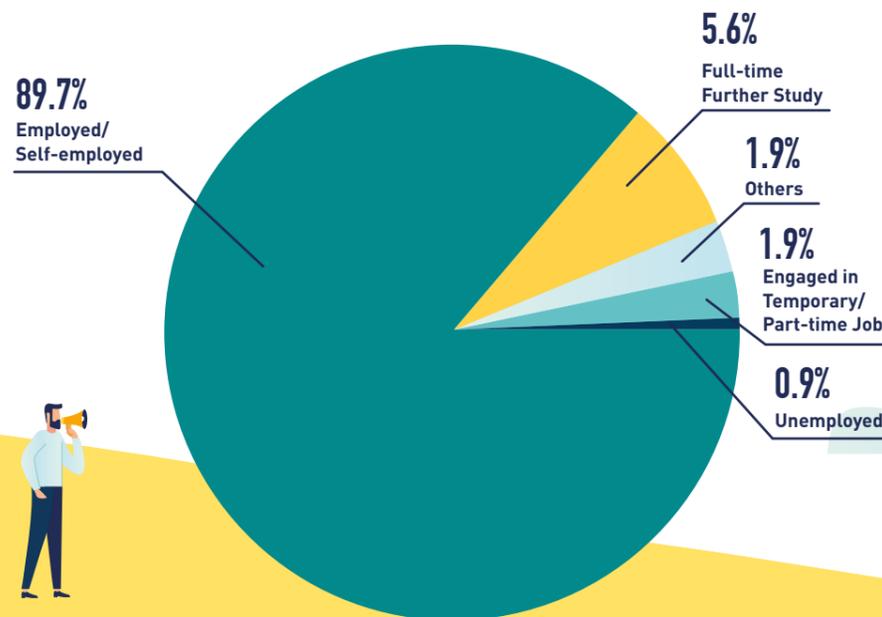
Carson Chan
Bachelor of Engineering (Honours) in Transportation Systems Engineering

I have completed five years of secondary education in SMK Puteri, Seremban before enrolling in Cambridge A-Levels in INTI International University for my pre-U. Then, I decided to pursue my degree in electrical engineering in Hong Kong. As PolyU is well-known for its engineering degrees, I applied for it using my forecasted results, and was offered an entrance scholarship which comes with a conditional offer and covers my full tuition fee. The Department of Electrical Engineering has excellent teaching staffs and facilities, and I feel proud of becoming a PolyU EE student.

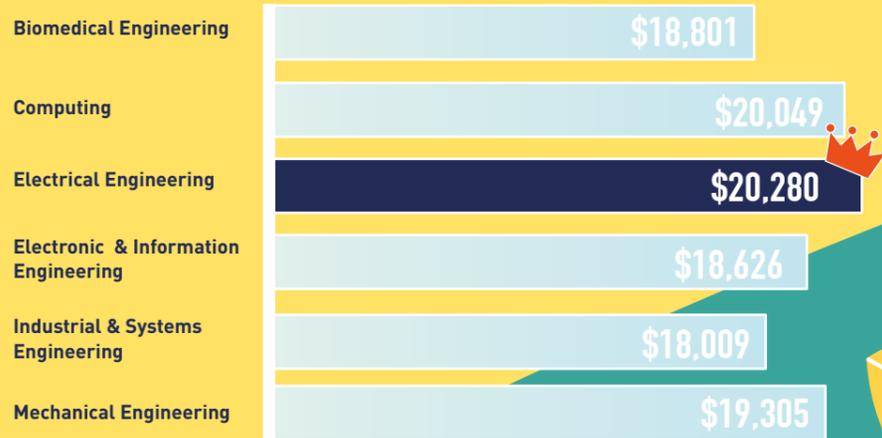
Soh Kah Yee
International student from Malaysia
Bachelor of Engineering (Honours) in Electrical Engineering

Graduate Employment Statistics

Graduates' Destination



Salary



Our Department's graduates obtained the highest average salary amongst other departments in the Faculty of Engineering

* Source: 2019 Graduate Employment Survey, Office of Careers and Placement Services of The Hong Kong Polytechnic University

Employment opportunities for our EE and TSE graduates included:

CLP Power, Hongkong Electric, MVA, Thales etc.
Other graduates to pursue Master and PhD degrees overseas and locally.



Study @ PolyU
<http://www.polyu.edu.hk/study>



Department's website
<http://www.ee.polyu.edu.hk>

Tel 2766-6150

Email eenotice@polyu.edu.hk

The Department of Electrical Engineering



The Department of Electrical Engineering is one of the premier departments of electrical engineering in Asia, which specialises in heavy current electrical engineering. We have a team of dedicated and renowned academic staff who are active in all facets of university life: teaching, research, and professional outreach. Currently, the Department offers two 4-year BEng(Hons) programmes for prospective students.

- ⚙️ Bachelor of Engineering (Honours) in Electrical Engineering
- ⚙️ Bachelor of Engineering (Honours) in Transportation Systems Engineering

Bachelor of Engineering (Honours) in Electrical Engineering

This undergraduate programme is one of the University's traditional strengths. In line with the University's motto, the Electrical Engineering programme aims to develop professionals who are capable of serving in frontline roles in the development, design and application of electrical systems in relevant industries. The programme also provides a pathway for students to pursue higher research and senior management prospects.

The curriculum is designed to emphasise the parallel development of theories and applications, and to imbue students with sound communication, analytical and problem-solving skills. In addition to covering mainstream topics, such as power systems, electrical machines and drives, railway and transportation engineering, power electronics, energy management and computer applications. The curriculum focuses on the latest technological developments and community needs in areas such as telecommunications, smart materials, optoelectronics, fibre optics and renewable energy.

With the extensive development of the power and energy industries in China and Hong Kong, the generation, transmission, application, intelligent management and utilisation of electricity and other forms of energy have become topical issues. Professional electrical engineers are in heavy demand wherever electricity is needed and utilised. Our students always find relevant jobs immediately upon graduation and embark on prosperous careers. Some graduates have been awarded full scholarships to pursue PhD studies at PolyU and at prestigious overseas universities such as Stanford and UCLA.



There is currently a worldwide shortage of power and energy engineers, who are in high demand in various large-scale industries and developments:

- ⚡ Electric Power Generation
- ⚡ Building Services
- ⚡ Electric and Hybrid Vehicles
- ⚡ Product Manufacturing
- ⚡ Electric Mass Transportation
- ⚡ Lighting and Control
- ⚡ Electric Apparatus Development
- ⚡ Energy Auditing
- ⚡ Control and Automation
- ⚡ Intelligent Buildings
- ⚡ Renewable Energy
- ⚡ Other Utility Companies (e.g. airports, gas, water, telecommunications)
- ⚡ Environmental Control

This programme will enable you to:

- 💡 Develop professional skills in electrical engineering that are applicable worldwide.
- 💡 Contribute to the development of a clean, green and sustainable environment through the use of state-of-the-art technologies.
- 💡 Help solve the global energy shortage and pollution crises.

Bachelor of Engineering (Honours) in Transportation Systems Engineering

This is the only undergraduate programme in Transportation Systems Engineering in Hong Kong. It draws on the vast experience and expertise in teaching and research within the Department of Electrical Engineering and the Department of Civil and Environmental Engineering at the Hong Kong Polytechnic University. The two departments are internationally recognised as leaders in the areas of transportation development, traffic management, mass transit railways and safety monitoring.

In addition to providing a solid foundation in engineering fundamentals, the Transportation Systems Engineering curriculum enables students to acquire essential practical experience, become acquainted with the latest technologies and their applications, and develop proactive and positive skills in problem-solving and critical thinking. The programme covers topics in electrical, civil and mechanical engineering, the analysis, operation and management of transportation systems, and transportation economics, accounting and logistics. The curriculum is designed to equip students with comprehensive knowledge of the planning, design, operation and intelligent management of transportation systems.



Why should you choose this programme?

- ❓ Want to be a professional engineer and contribute to the future development of Hong Kong and China?
- ❓ Interested in obtaining knowledge of the current practices in transportation and the latest transportation systems technologies?
- ❓ Eager to apply the latest engineering knowledge in the planning, design, operation and maintenance of transportation systems?
- ❓ Attracted by the huge job opportunities in the high-growth transportation sector and the wide range of career prospects?

If so, the Bachelor of Engineering (Honours) in Transportation Systems Engineering is your **BEST** choice!



Highlights

Opportunities for overseas exchange, study tours and industrial placements are available throughout the programmes to broaden the horizons of our students. Our undergraduate students have numerous opportunities to get involved in various large-scale industrial projects and international competitions. Departmental staff engage in research activities that highly acclaimed around the world and they have been honoured with numerous awards for outstanding achievements. Our students can reap the benefits of the Department's accomplishments and experience by engaging in summer research opportunities. For students with outstanding academic achievements, various scholarships and fellowships are available.



Duration & Credit Requirement

Mode of Study Full Time	Normal Duration 4 years	Type of Applicants <ul style="list-style-type: none"> • JUPAS (local) • Non-JUPAS (local) • Non-local 	Credits Required for Graduation 124 (plus training credits) Students may be required to take extra subject in Physics depending on their entry qualifications
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