

Department of Electrical Engineering



(Options: BEng Computer and Data Engineering,
BEng Electronic and Electrical Engineering, BEng Information Engineering)

Our Majors

- Common first year
- Students choose a major after one year of study
- Majors offered:
 - BEng in Computer and Data Engineering (CDE)
工學士(電子計算機及數據工程學)
 - BEng in Electronic and Electrical Engineering (ELEE)
工學士(電子及電機工程學)
 - BEng in Information Engineering (INFE)
工學士(資訊工程學)



Program Highlights

CDE - Computer and Data Engineering

- Hardware and Software Design 電腦硬件及軟件設計
- Multimedia Technologies 多媒體科技
- Data Analytics and Security 數據分析及安全
- Cloud Computing Systems 雲端運算系統
- Machine Learning 機器學習
- Artificial Intelligence 人工智能

ELEE - Electronic and Electrical Engineering

- Wireless Communications and Data Technology 無線通訊及數據技術
- Terahertz and Optical Technologies 太赫茲及光學科技
- Photonic, Electronic, and Sensor Devices 光電子及電子器件、感應器
- Smart Control and Power Systems 智能管理及能源系統
- Bioelectronics and Bioinformatics 生物電子及生物信息技術

INFE - Information Engineering

- Networking and Communications 網絡及通訊
- Algorithms and Optimization 算法與優化
- Software Technologies 軟件技術
- Cybersecurity 網絡安全
- Artificial Intelligence 人工智能
- Signal Processing 訊號處理

Job Opportunities

Engineering companies, telecommunications, major utilities (CLP, PCCW)

- Engineer (Computer/Technical Support/Telecommunication/Electronic/Electrical/Hardware)
- Scientific Consultant/Technologist

Banking & financial institutions, software and IT companies, transportation (airlines, shipping), government

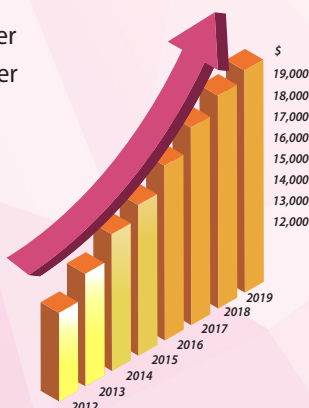
- IT Specialist/Network Administrator
- Analyst/Programmer/Software Engineer
- Application Developer/Game Developer

Salary Trend (2012 – 2019 graduates)

2019 graduates

40% > \$20,000

60% > \$19,000



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Entrance Requirements

HKDSE JUPAS Applicants	Students will apply for admission to the Department of Electrical Engineering (JS 1205) and enter a major after one year of study.					
	Entrance Requirements and Levels					
	Eng. Lang.	Chi. Lang.	Maths.	Liberal Studies	Elective 1	Elective 2
Level 3	Level 3	Level 3	Level 2	Level 3 any one of specified subjects (Notes)	Level 3 any one subject (Notes)	
	Notes:					
	<ul style="list-style-type: none">Specified subjects under Elective 1 include M1-Calculus and Statistics/M2-Algebra and Calculus, Information and Communication Technology, Physics, Chemistry, Biology, Combined Science and Integrated Science.More details about entrance requirements are available at: http://www.admo.cityu.edu.hk/jupas/entreq/bd/.					
	Other Considerations					
	<ul style="list-style-type: none">When considering the priority list of student applicants, we mainly consider subject results obtained in current and past two years.More details about assessment of applications and other information, including subject weighting for main consideration are available at: http://www.admo.cityu.edu.hk/jupas_hkdse/assessment/bd/.					
	Direct / Non-JUPAS Applicants	<ul style="list-style-type: none">General Entrance Requirements (http://www.admo.cityu.edu.hk/direct/entreq/bd/), and possess Science or Engineering background.Associate Degree (AD)/Higher Diploma (HD) graduates or final year students may apply for admission to major programmes with Advanced Standing (Year 2 or Year 3). Applicants are normally expected to have completed the AD/HD award with a CGPA of ≥ 3.0, or an equivalent overall mark or a credit award.Other high school qualifications, e.g. GCE, IB, overseas, AD/HD Year 1 students, may apply to enter Year 1.				

Graduate Career Outlook

High demand for EE graduates

創新科技

- 預留**30**億元推展科學園第二階段擴建計劃
- 探討建設第三個「InnoHK創新香港研發平台」
- 把「科技券」資助上限提高至**60**萬元，政府出資比例調高至**75%**
- 注資**3億4,500**萬元推行先導計劃，鼓勵物流業通過應用科技以提高生產力

來源: 2020-21 政府財政預算案



Research Talent Hub for ITF projects

(A scheme promoted by the Government of HKSAR)

Support **research talents** who possess a **STEM-related bachelor/master degree** awarded by a local university or a doctoral degree from either a local university or a well-recognised non-local institution.

- Engaging up to **4 research talents per project**;
- Engagement period: **36 months each talent**
- Max. monthly allowance: **HK\$18,000 for bachelor degree**; **HK\$21,000 for master degree**; **HK\$32,000 for doctoral degree**.

More details:
<https://www.itf.gov.hk/en/home/index.html>



Entrance Scholarships for Local Students



Department's Highlights

- Largest EE department among local universities with 55 professors
- Ranked 16th in Engineering worldwide and 1st in Hong Kong (U.S. News Best Global Universities Rankings 2020); 21st worldwide and 1st in Hong Kong in Engineering (Performance Ranking of Scientific Papers for World Universities 2019 by National Taiwan University)
- The department boasts 2 Fellows of the Royal Academy of Engineering (UK), 1 Fellow of the World Academy of Sciences, 1 Highly Cited Researcher (since 2009 by Clarivate Analytics), 15 IEEE Fellows, and 3 Croucher Foundation Senior Research Fellows
- Six EE professors have been awarded the Teaching Excellence Award by the University
- A caring department emphasizing students' well-roundedness apart from their technical know-how through ample co-curricular activities – Student Tutoring Scheme, Honor Society, Student Exchange, Internships, Study Tours, Softskill and Career Advising Workshops
- Offering three undergraduate major programmes, two taught master programmes, and two research degree programmes (approx. 1,400 students)
- With the support from the Ministry of Science and Technology, State Key Laboratory of Terahertz and Millimeter Waves established in 2008 is the first such laboratory in engineering discipline in Hong Kong
- Laboratory space about 5,000 sq. meters



1.3%，遠低於去年調查所得的5.1%，另外四成打工仔更要凍薪。

「資訊科技」及「分析/策略」薪酬增長幅度最高

按工種類別分類，從事「資訊科技」及「分析/策略」的僱員薪酬增長幅度最高，分別為6.1%和5.8%，其中「資訊科技」已連續數年高於平均加幅...

來源: 20 May 2020 <<香港01>>