Imperial College London

Robotics and Artificial Intelligence Summer School for USTC

6 to 17 August 2018 at Imperial College London, UK.

This two-week summer school is designed for students studying computer science, computing or software engineering, electronics engineering, mechanical engineering and other relevant engineering degrees in either the final two years of their undergraduate studies, at master level or first year PhD at a well-recognised university in China.

Students will:

- Gain an insight into Machine Learning, Robotics and Artificial Intelligence;
- Understand the latest real-world applications and innovations in these areas;
- Develop valuable professional skills in business model innovation, communication and presentation;
- Work as a team on a project to create a robotic device and develop a business case towards a group competition;
- Visit London's Silicon Roundabout Tech City;
- Practice and improve their English language.

In addition, students will have an opportunity to make new friends, get to know student ambassadors from Imperial College London through social activities and discuss opportunities for future study and experience what it is like to study in a world class university.

Programme Structure:

43 contact hours spread over 2 weeks covering lectures, workshops, tutorials, and project work.

Students will be allocated into groups and a project will be assigned to each group at the start of the programme working towards a project presentation on the last day of the programme.

There will also be cultural and social activities organised by Imperial student ambassadors.

The entire programme will be taught in English.

Certification:

Students will receive an Imperial College London certificate of attendance on successful completion of the programme. The winning group(s) will also receive an award of recognition.

Entry requirements:

All students are expected to be studying a computer science, computing/software engineering, electronics engineering, mechanical engineering, or other engineering related degree in in either the final two years of their undergraduate studies or at master level or first year PhD at a well-recognised university in China.

All students are required to have a good software programming skills, knowledge of MATLAB and good command of English and if it is not their first language, they will need to satisfy the College requirement as follows:

- a minimum score of IELTS (Academic Test) 5.5 overall (with no less than 5.0 in any element) or equivalent.
- CET-4 (China) minimum score of 550
- CET-6 (China) minimum score of 520

Teaching Faculty

The summer school is directed by Professor Guang-Zhong Yang, PhD, FREng, Director and Co-founder of the Hamlyn Centre for Robotic Surgery, Deputy Chairman of the Institute of Global Health Innovation, Imperial College London, UK. Professor Yang also holds a number of key academic positions at Imperial – he is Director and Founder of the Royal Society/Wolfson Medical Image Computing Laboratory, co-founder of the Wolfson Surgical Technology Laboratory, Chairman of the Centre for Pervasive Sensing.   Professor Yang is also the Founder of UK Robotics & Autonomous Systems Network and hosted a visit to The Hamlyn Centre for President Xi Jinping during his state visit to the UK in October 2015.

The summer school will be taught by Professor Guang-Zhong Yang and his team from The Hamlyn Centre and the Department of Computing.

Photo above: Professor Guang-Zhong Yang showing President Xi Jinping one of his medical robotic devices.