



Robotics

MSc

Robotics is one of the most discussed topics in recent years; robots are becoming ubiquitous in industrial environments as well as in everyday life. However, as the adoption of robotic technology progressively rises, the skill shortage in robotic engineers will also widen accordingly. This Robotics MSc course will offer students the opportunity to gain practical robot programming experience.

Course structure

This course is composed of compulsory taught modules (40%), Group project (20%) and Individual research project (40%).

Individual project

The individual research project allows you to delve deeper into an area of specific interest. It is very common for industrial partners to put forward real world problems or areas of development as potential research thesis topics. For part-time students it is common that their research thesis is undertaken in collaboration with their place of work.

Group project

The group design project is intended to provide you with invaluable experience of delivering a project within an industry structured team. The project allows you to develop a range of skills including learning how to establish team member roles and responsibilities, project management, delivering technical presentations and gaining experience of working in teams that include members with a variety of expertise and often with members who are based remotely.

Future career

The MSc in Robotics is designed to equip you with the skills required to pursue a successful career working in the UK and overseas. This course will improve your employment prospects by providing you with relevant theoretical knowledge and practical skills to become robotics engineers and experts in robotics, to meet the rising global demands.

Course modules

The taught programme consists of compulsory modules.

Compulsory:

- Artificial Intelligence and Machine Learning for Robotics,
- Autonomy in Robotic Systems,
- Fundamentals of Robotics,
- Human-Robot Interaction,
- Machine Vision for Robotics,
- Programming Methods for Robotics,
- Psychology, Ethics and Standards,
- Robotics Control.

Duration:

MSc: Full-time - one year, part-time - two-three years.

Start date:

October.

Location:

Cranfield Campus.

Entry requirements:

A first or second class UK Honours degree (or equivalent), in Aeronautics/ Aerospace Engineering, Mechanical Engineering, Electrical/ Electronic Engineering, Pure mathematics, Computer Science, Software Engineering, Mechatronic Engineering, Information Technology.

Applicants who do not fulfil the standard entry requirements can apply for the Pre-master's in Engineering programme. Successful completion of which will qualify them for entry to this course for a second year of study.

ATAS Certificate:

Students requiring a visa to study in the UK may need to apply for an ATAS certificate to study this course.

Contact details

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For further information please visit
www.cranfield.ac.uk/robotics