The global market for unmanned and autonomous vehicles is expanding rapidly. This unique MSc aims to equip graduates and engineering professionals with the fundamental knowledge and enabling skills required to develop a successful career. Suitable for graduates in engineering, physics, or mathematics and aims to prepare you for an exciting career, ranging from being an autonomous systems engineer, design engineer or in an operations role.

We are unique in that we offer an MSc which covers a wide application within the autonomous vehicle industry. Achieving this highly sought after qualification with its strong industry links will enable you to differentiate yourself in today’s competitive employment market. This masters covers the fundamentals of autonomous vehicle design and control, whilst enabling you to specialise in appropriate subject areas via elective modules and an individual research project. This flexibility means that you may tailor the course to your own particular interests and career aspirations. This course is also available on a part-time basis enabling you to combine studying with full-time employment. This is enhanced by a three stage programme from a Postgraduate Certificate, to a Postgraduate Diploma through to an MSc.

Course structure
The MSc in Autonomous Vehicle Dynamics and Control consists of two equally weighted components: taught modules and an individual research project.

Individual project
Our industry partners sponsor individual research projects allowing you to choose a topic that is commercially relevant and current. Topics are chosen during the first teaching period in October and you begin work during the second half of the MSc course (May - August).

Future career
The industry-led education makes Cranfield graduates some of the most desirable all over the world for recruitment by companies competing in the autonomous vehicle market including BAE Systems, Defence Science and Technology Laboratory, Selex, MBDA and other companies on our Industry Advisory Board. Graduates from this course will be equipped with the advanced skills which could be applied to the security, defence, marine, environmental and aerospace industries. This approach offers you a wide range of career choices as an autonomous systems engineer, design engineer or in an operations role at graduation and in the future.

Example modules
Modules for each option vary, please see individual course option pages for more information.

Compulsory:
• Artificial Intelligence for Autonomous Systems,
• Autonomous Vehicle Control Systems,
• Guidance and Navigation for UAS,
• Introduction to Unmanned Aircraft Systems (UAS),
• Sensor Fusion,
• UAS Flight Control Systems,
• UAS Flight Dynamics,
• UAS Modelling and Simulation.

Duration:
MSc: Full-time - one year, Part-time - up to three years,
PgDip: Full-time - up to one year, Part-time - two years,
PgCert: Full-time - up to one year, Part-time - two years.

Start date:
October.

Location:
Cranfield Campus.

Entry requirements:
A first or second class UK Honours degree in a relevant subject or an equivalent international qualification or relevant work experience.

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.

Please visit www.cranfield.ac.uk/entryrequirements for more information.

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
T: +44 (0)1234 758083
E: studyaerospace@cranfield.ac.uk

For further information please visit
www.cranfield.ac.uk/courses/taught/autonomous-vehicle-dynamics-and-control