The MSc in Safety and Accident Investigation (Air Transport) allows you to receive an internationally recognised qualification in the field of accident investigation. The majority of students join this course with the intention of receiving a qualification that will allow them to further their career development in accident investigation or other safety related areas of the air transport industry. We have been a centre of excellence for aircraft accident investigation for almost 40 years. In 2011, we were awarded a Queen’s Anniversary Prize for our world leading work in aviation safety through research and training in air accident investigation. An important aspect of this course is the use of hands-on workshops and simulations to develop the practical skills required as an investigator. This is complemented by sessions and modules that enable you to conduct rigorous research and scientific analysis, along with technical writing, investigation and interviewing techniques. The course format is suitable for professionals based all over the world, as teaching is in modules, and research and assessments can be completed remotely if necessary. Cranfield University is very well located for visiting part-time students from all over the world, and offers a range of facilities to support your studies.

Course structure
The full MSc course consists of compulsory modules, Elective modules and an individual research project. Both the Fundamentals of Investigation and Applied Aircraft Accident Investigation modules are compulsory.

Individual project
During year three, you will undertake a supervised research project on a subject of your choice within the aircraft accident investigation field. Building on pioneering work in the area of medical imaging, one of our recent MSc graduates has developed a state-of-the-art technique with his research project 'Using 3D Computed Tomography in Aircraft Accident Investigation.

Future career
This course allows you to receive an internationally recognised qualification in the field of accident investigation. The majority of students join this course with the intention of receiving a qualification that will allow them to further their career development in accident investigation or other safety related areas of the air transport industry. Previous students have been employed by dedicated government investigation agencies, airframe and power plant manufacturers, air traffic services, safety regulation, insurers, and the military.

Example modules
Many modules are offered as short courses and are popular with delegates from all over the world.

Compulsory:
• Fundamentals of Investigation,
• Applied Aircraft Accident Investigation,
• Research Methods.

Elective:
• Aviation Safety Management,
• Flight Data Monitoring,
• Human Factors in Aviation Maintenance,
• Legal Skills for Accident Investigators,
• Safety Assessment of Aircraft Systems,
• Investigating Human Performance,
• Crisis Management and Business Continuity,
• Interviewing Techniques for Accident Investigators,
• Fundamentals of Material Failures for Accident Investigators,
• Introduction to Aircraft Structural Crashworthiness.

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

Start date:
January or May.

Location:
Cranfield Campus.

Entry requirements:
The course is primarily aimed at those involved in aircraft accident investigation and other safety related industries. Applicants should have a good UK Honours degree (or equivalent) in any discipline, or a recognised lower qualification plus relevant work experience in aviation/safety related areas.

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

For further information please visit
www.cranfield.ac.uk/courses/taught/safety-and-accident-investigation-air-transport