



Safety and Human Factors in Aviation MSc

www.cranfield.ac.uk/shfa



Demand for human factors and safety expertise continues to grow within aviation as well as other safety-critical industries, requiring professionals who can make real and lasting improvements to performance and safety through the application of skills and knowledge. Safety-critical systems require high human performance in addition to engineering excellence to meet the safety and business requirements of the aviation industry.

The Safety and Human Factors in Aviation MSc, accredited by the Chartered Institute of Ergonomics and Human Factors (CIEHF), equips students with industry-relevant skills, delivered through a mix of lectures and practical exercises by Cranfield University's well-established Safety and Accident Investigation Centre, which has supported global safety and investigation for over 30 years.

Who is it for?

This course attracts a wide variety of students, from aviation professionals in civil and military domains to high-quality graduates in engineering and social science disciplines. In the past we have welcomed students with backgrounds in civil and military aviation, avionics engineers, psychological practitioners, medical care and air traffic controllers. This wide range of skills and knowledge represented by students on the course provides a unique learning environment.

Your career

There are strong employment prospects for graduates in safety-related management and operational positions. Course graduates generally find suitable employment in a range of safety and human factors related roles. Previous graduates of the course have been successful in gaining employment with:

Airbus,
BAE Systems,
British Airways,
Qinetiq,
Virgin Atlantic,
NATS,
Honeywell,
Easyjet,
DHL,
Royal Navy,
Frazer-Nash,
MBDA.

Overview

Start date

October

Duration

Full-time MSc - one year

Qualification

MSc

Study type

Full-time

Structure

Taught modules 40%, Group projects 20%, Individual research project 40%

Campus

Cranfield campus

Entry requirements

We welcome applications from talented individuals of all backgrounds and each application is considered on its individual merit. Usually applicants must hold:

A UK lower second-class (2:2) undergraduate degree with honours, as a minimum, or equivalent international qualification.

Ideally, applicants will have studied in an engineering, aeronautical engineering, mathematics, ergonomics, psychology or other science discipline.

Find information about equivalent qualifications in your country on our International entry requirements page.

Fees

Please see www.cranfield.ac.uk/fees for detailed information about fee status, full-time and part-time fees as well as deposit requirements and bursary and scholarship information.

Course details

The MSc comprises 12 modules; eight compulsory and two of the optional taught modules; two group project modules alongside an individual research project.

Modules

Keeping our courses up-to-date and current requires constant innovation and change. The modules we offer reflect the needs of business and industry and the research interests of our staff. As a result, they may change or be withdrawn due to research developments, legislation changes or for a variety of other reasons. Changes may also be designed to improve the student learning experience or to respond to feedback from students, external examiners, accreditation bodies and industrial advisory panels.

To give you a taster, we have listed below the compulsory and elective (where applicable) modules which are currently affiliated with this course. All modules are indicative only, and may be subject to change for your year of entry

Compulsory modules

All the modules in the following list need to be taken as part of this course.

Aviation Safety Management
Human Error and System Safety
Human-Computer Interaction in Aviation
Cognitive Ergonomics
Safety Assessment of Aircraft Systems
Applied Safety Assessment
Research Methods (MSc only)
Aircraft Accident Investigation and Response
Safety and Human Factors in Aviation Capstone Project

Elective modules

Select two from the list below

Flight Data Monitoring
Human Factors in Aviation Maintenance
Training and Simulation

"The course offered a perfect balance of research exposure and practical skills training, which I knew would be beneficial in enhancing my career. This opportunity presented a perfect amalgamation of learning and experience that I was looking forward to. The programme aims to equip graduates with skills and information to improve performance and safety in the aviation industry in a meaningful and lasting way and so I chose to enrol myself in this course."

Samarth Vilas Burande

current student, Safety and Human Factors in Aviation MSc

Accreditation

This course is accredited by the Chartered Institute of Ergonomics and Human Factors (CIEHF).



For more information contact our Admissions Team:
T: +44 (0)1234 758082

Visit campus for yourself and meet current students and our academics at our next Open Day:
www.cranfield.ac.uk/opensday

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Every effort is made to ensure that the information provided here is correct at the time it is published. Please check our website for the latest information.