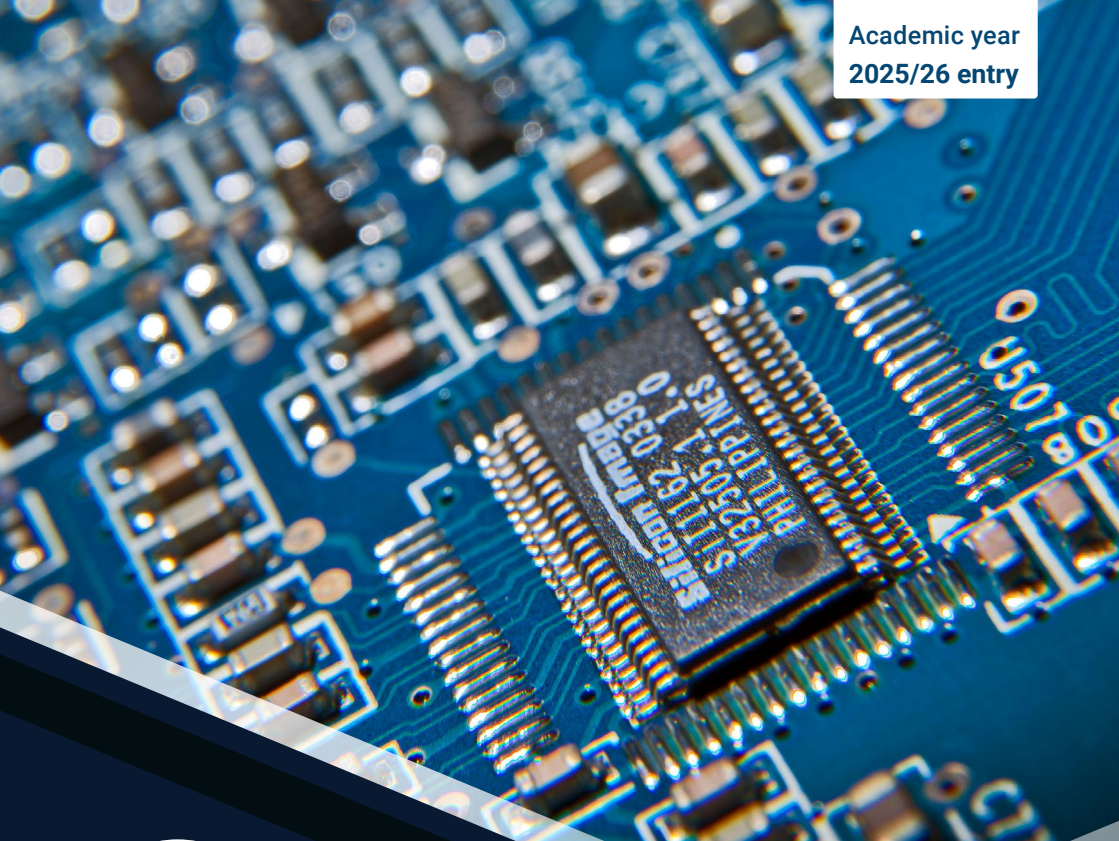
Academic year
2025/26 entry



Cranfield University

Postgraduate master's courses in

Security

Cyber and Intelligence Security
Decision Support
Forensic Science
National Security and Resilience

Cranfield University

Our reputation

We are the UK's only specialist postgraduate university in technology and management, with longstanding relationships with some of the most prestigious global companies. Our close collaboration with industry, and passion for the areas we operate in, will help your career.

Specialist postgraduate

A research-focused professional community.

We work with over

1,500

businesses and governments based in over **40 countries.**

Over £150m

of investment in new facilities over the past five years.

5,000+

postgraduate students from 100+ countries.

A network of

80,000+

alumni, from 173+ countries.

As we are postgraduate only, we are not listed in many league tables that help compare undergraduate universities.

Accident Inverstigation at Cranfield

With a global reputation, Cranfield University offers some of the most career critical master's degrees in the sector.

Our **Digital Forensics Unit**

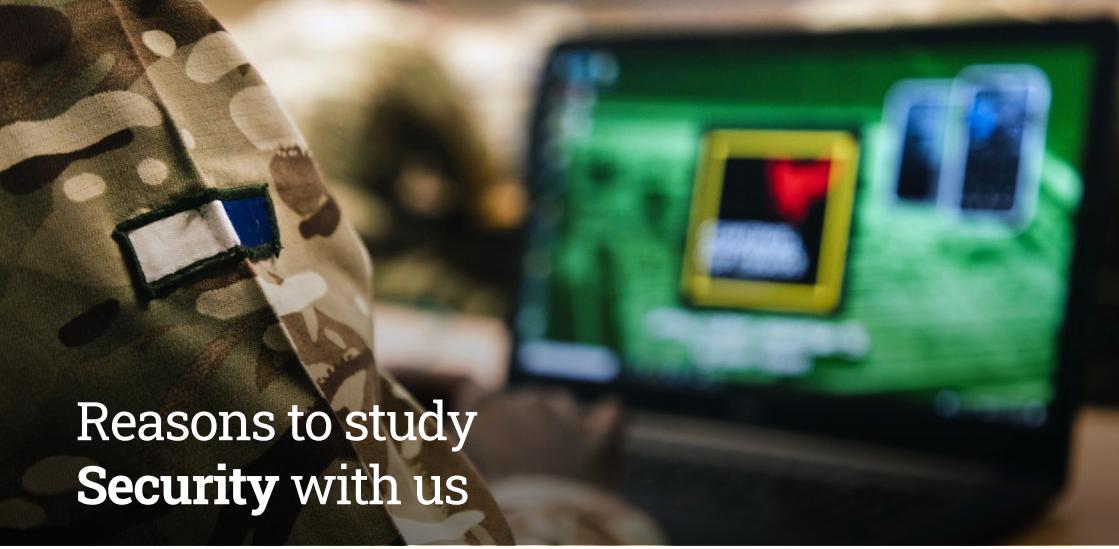
is one of the **longest established** in the world

One of

the leading

Specialist science and technology (STEM) universities in England

Knowledge Exchange Framework, 2023



Reasons to study **Security** with us

1. **Heritage**
   As an academic provider to the United Kingdom's Ministry of Defence (MOD). We are proud to be a significant supplier of security expertise around the world through our postgraduate courses, research and consultancy programmes.

2. **Industry links**
   Our close relationships with the MOD, security organisations and engineering councils enable us to deliver courses that are taught by leading experts, drawing on a wealth of experience.

3. **Flexible delivery**
   We recognise that the majority of students seek to further their careers or add skills and experience to their portfolio. Our courses are organised and resourced to provide flexible options to enable you to maximise limited study time.

4. **World-class facilities**
   The University features its own airport, both on and off-site explosive ranges, simulation and synthetic experimentation facilities and multiple world-class laboratory facilities.

5. **Hands-on learning**
   We use hands-on simulations and workshops to bring our teaching to life. Learn from experienced academics and industry professionals in an environment that prepares you for your future role.

6. **Expert-driven teaching**
   Our team of academics and researchers at the forefront of their fields. Offering you the chance to learn and work with current practitioners, industry experts and chances to continue your studies through to further research.

Courses

Cranfield University has an extensive and in-depth portfolio of courses with a focus on security. We aim to inform, educate and research new and innovative ways to keep infrastructure, society and cyberspace safe.

We offer a unique insight into critical areas of security that are underpinned by expertise, industry knowledge and current practitioners that make a real difference to the lives of our military, security and civilian personnel.

Cyber and Intelligence Security

Cyber Defence and Information Assurance

www.cranfield.ac.uk/cdia	Full-time, Part-time (Shrivenham)	MSc, PgDip, PgCert

Designed to develop professionals who can lead in a cyber environment, this course focuses on understanding and articulating the executive-level responses to serious present and emerging threats in the information domain.

Accredited by: CILIP The library and information association

Cyberspace Operations

www.cranfield.ac.uk/co	Full-time, Part-time (Shrivenham)	MSc, PgDip, PgCert

Designed to develop military and defence industry professionals who can lead in a defensive cyber environment, to effectively exploit the threats and opportunities of cyberspace at the organisational level.

Information Capability Management

www.cranfield.ac.uk/icm	Full-time, Part-time (Shrivenham)	MSc, PgDip, PgCert

We aim to create skilled professionals who can source, analyse and strategise improvements, assess digital infrastructure and keep up with an ever-increasing and developing world of information and technology.

Accredited by: CILIP The library and information association; bcs Accredited Degree

Further recommended courses

There are other courses from across the University in this area which may be of interest to you. These include:

Advanced GIS and Remote Sensing MSc - see **www.cranfield.ac.uk/gisandremotesensing**

Decision Support

Defence Simulation and Modelling

www.cranfield.ac.uk/dsm	Full-time, Part-time (Shrivenham)	MSc, PgDip, PgCert

The application of modelling and simulation continues to enhance and transform both systems development and training. It allows representation of increasingly complex equipment, systems and scenarios for the purposes of decision support and helps to reduce wear on live equipment and on test and training areas.

Systems Engineering

www.cranfield.ac.uk/systemsengineering	Full-time, Part-time (Cranfield)	MSc, PgDip

Systems engineers address some of the most complex challenges and problems that society faces. This course will equip you to address the root causes of a problem situation, understanding requirements from multiple perspectives and the tension that may exist between them.Obulica vere

Systems Thinking Practice

www.cranfield.ac.uk/systemsthinking	Full-time, Part-time (Cranfield)	MSc, PgDip, PgCert

The ever changing external climate we now find ourselves in has changed how organisations work and their decision making process. Systems thinking has become critical to success; organisations need to focus on their systems and the need for adaptability and resilience like never before.

Forensic Science

Digital Forensics

www.cranfield.ac.uk/digitalforensics	Full-time, Part-time (Cranfield)	MSc, PgDip, PgCert

Designed to develop professionals who can lead in a cyber environment, this course focuses on understanding and articulating the executive-level responses to serious present and emerging threats in the information domain.

Accredited by: bcs Accredited Degree

Forensic Archaeology and Anthropology

www.cranfield.ac.uk/faa	Full-time, Part-time (Cranfield)	MSc, PgDip

You will have the opportunity at getting your hands dirty with practical archaeological excavations, looking at the science and exploring simulated mass grave sites and using a plethora of practical and theory-based techniques to understand and analyse the world as we find.

Accredited by: The Chartered Society of Forensic Sciences

Forensic Biology

www.cranfield.ac.uk/forensicbiology	Full-time, Part-time (Cranfield)	MSc, PgDip

This MSc is highly practical by its very nature. There is a focus on the interpretational skills required to critically evaluate different forms of forensic evidence recovered from exhibits in the laboratory and at the crime scene, based on scenarios.

Forensic Investigation

www.cranfield.ac.uk/forensicinvestigation	Full-time, Part-time (Cranfield)	MSc, PgDip, PgCert

Designed to develop military and defence industry professionals who can lead in a defensive cyber environment, to effectively exploit the threats and opportunities of cyberspace at the organisational level.

Accredited by: The Chartered Society of Forensic Sciences

Further recommended courses

There are other courses from across the University in this area which may be of interest to you. These include:

Safety and Accident Investigation MSc - **see www.cranfield.ac.uk/sai**

National Security and Resilience

Counterterrorism

www.cranfield.ac.uk/counterterrorism	Full-time, Part-time (Cranfield)	MSc, PgDip, PgCert

The Counterterrorism MSc will provide you with an understanding of how traditional and advanced techniques in counterterrorism are used in the modern day world. You will gain clear insight into how research and ideas can be applied to help resolve real-world problems in this critical arena.

Counterterrorism, Risk Management and Resilience.

www.cranfield.ac.uk/riskandresilience	Full-time, Part-time (Cranfield)	MSc, PgDip, PgCert

This course will provide you with the fundamental knowledge, core expertise and evidence-based methodological tools and approaches necessary to understand, analyse, prevent and mitigate terrorism.

The compulsory and (where applicable) elective modules offered for the 2024-25 academic year are shown on our website. To keep our courses relevant and up-to-date, relevant and for practical purposes, modules may be subject to change from cohort to cohort; please check our website for the latest information.

Course **structure**

Our specialist, sector-focused master's courses are set up and developed in close collaboration with industry partners, ensuring the content of our courses remains industry-relevant and employers are impressed with our graduates' business-readiness.

This diagram illustrates the standard course structure for our master's programmes. Please check your course structure online for more detailed information.

Registration — 180 credits / 1,800 hours — **Completion**

Taught programme

An intensive learning experience providing the knowledge you need to excel in your specialist field.

Individual project

An opportunity to think and work in an original way. For example, this could be working on a project for a University partner, delving deeper into an area of specific interest or a real-world challenge in the sector you want to work in.

Industry **links**

Cranfield has unrivalled links with industry, and you will benefit from our extensive contacts and track record of close collaboration with decision-makers in your chosen sector.

These benefits range from the various high-profile guest speakers we are able to attract, to the ability to network with future employers at our group presentation days and careers fairs held on campus.

Industrial advisory panel

Our courses are informed by industry. We ensure that the latest practices and teaching methods are being taught to the highest standard that will mean a seamless transition from learning to application within the workplace. Each course is reviewed every year by an academic panel, who use industry experience and current practitioners.

Careers

Our alumni can be found around the world in leading roles. Here are a few examples of the roles our alumni have secured in recent years.

Read more on our website **www.cranfield.ac.uk/careers**

Roles:

- Senior Mechanical Systems Engineer
- Air Certification Engineer,
- Capability Integration Officer,
- Project Manager,
- Border Force Officer,
- Modelling and Simulation Engineer,
- Academic Advisor,
- CEO.

Companies:

- Defence Equipment & Support,
- Home Office,
- Raytheon Systems Ltd.,
- Royal Navy,
- Babcock International Group PLC,
- Nigerian Army,
- Japan Ministry of Defence,
- Pelorus Technologies.

Academic **staff**

You will be taught by a wide range of subject specialists at Cranfield and from industry, who draw on their research and industrial expertise to provide stimulating and relevant input to your learning experience.

The list of academics below represents a small proportion of our staff; we also have a large number of highly-experienced guest lecturers.

Professor Mark Richardson,

Pro-Vice-Chancellor – Cranfield Defence and Security

www.cranfield.ac.uk/marichardson

Mark has been at Cranfield University at the Defence Academy of the United Kingdom, Shrivenham since 1989 and has previously been the Director of Defence and Security Technology, the Director of Research and the Head of the Centre of Electronic Warfare, Information and Cyber. He became the Pro-Vice Chancellor of Cranfield Defence and Security in 2018.

Dr Fanny Camelia,

Senior Research Fellow - Systems Engineering

www.cranfield.ac.uk/fcamelia

Fanny is a Senior Research Fellow at the Centre for Systems and Technology Management. She has conducted research in the areas of systems thinking, systems engineering and other systems methodologies.

Dr Graeme Horsman,

Senior Lecturer in Digital Forensics

www.cranfield.ac.uk/ghorsman

Graeme has over nine years of experience in teaching and research in higher education in the areas of digital forensics and cyber investigation.

Dr Stephanie Burrows,

Research Fellow in Computational Modelling

www.cranfield.ac.uk/sburrows

Stephanie joined Cranfield University in 2016 as part of the Centre for Simulation and Analytics as a research fellow in Computational Modelling, and works in a variety of areas of testing and simulation using in-house software.

Key facts and statistics

Course information

Full-time
One year.

Part-time
Up to five years. See the course webpages for more information about part-time study.

Start date
Various. Please visit course webpages for more information.

Award
MSc/PgDip/PgCert.

Fees
Please see the individual course webpages on our website for full fee information and full-time or part-time options. Terms and conditions apply. See **www.cranfield.ac.uk/fees**

Cohort profile*

Geographic spread
90% UK.
10% International.

Average cohort age
30–39.

Student to staff ratio
10:1

Countries represented by students
50

*These figures give an indication of the course make-up at registration across our defence and security courses for the entry 2023-2024.

Digital forensics laboratory

Useful **information**

Financing your studies

Whether you are a UK-based or international student, we provide information, advice and a range of online tools to help you put together the funding package you need. Take a look at our funding finder which provides a searchable database of sources of financial support. We also offer bursaries for high quality applicants. Visit our website where we provide a range of additional sources of potential funding and helpful organisations and contacts for information, advice and guidance.

Learn more at **www.cranfield.ac.uk/funding**

More than a degree with the **Cranfield Enhance programme**

Cranfield graduates are valued for their distinctive skills and capabilities. We have developed these programmes to complement and enhance what you learn on your chosen qualification. On the Cranfield Enhance programme, you will be able to earn 'digital badges' in areas such as employability and entrepreneurship to showcase your new skills to prospective employers.

Read more at **www.cranfield.ac.uk/enhance**

"You own your own development. I wanted to do this and this is because I know it's going to help me achieve what we need to do from a business point of view. The course gives us an opportunity for us to share ideas, to practice, and ultimately experience different methods."

Ben Merrills, current student, (Systems Thinking Practice Apprenticeship)

Life at **Cranfield**

A welcoming, professional campus community.

Explore our University

You can personalise your virtual visit to our campus by choosing the subject area you are interested in on our interactive tool:

virtualexperience.cranfield.ac.uk

How to **apply**

Read more about our entry requirements and how to apply at **www.cranfield.ac.uk/apply**

Our **location**

Located just over an hour from London in the English countryside, Cranfield's campus environment supports close, working relationships between our multinational postgraduate students and academic and industry experts.

www.cranfield.ac.uk/visit

www.cranfield.ac.uk/defenceandsecurity

Our sector study areas:

Aerospace,
Defence and Security,
Energy and Sustainability,
Environment and Agrifood,
School of Management,
Manufacturing and Materials,
Transport Systems,
Water.

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blogs.cranfield.ac.uk

For a full list of Cranfield courses, please see our **prospectus** and website.

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E: study@cranfield.ac.uk
www.cranfield.ac.uk

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