



Cranfield
Defence and
Security

Continuing
Professional
Development

Forensic Science

2023/24

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Welcome

Cranfield Forensic Institute (CFI) is a world class teaching department for many forensic-related disciplines at Cranfield University, such as archaeology, ballistics, explosives and material science.

Our state-of-the-art facilities, research active academics and excellent industry links provide students with excellent standards of education and research, making CFI unique within the postgraduate education sector. Our faculty are highly active within the forensic science community and have the ability to bring industrial insights back to the classroom, enabling us to provide you with an unsurpassed learning experience.



What we can offer you

Career development

Investing in your professional competencies is essential in developing the higher level skills needed to progress in your forensics career. Our courses are the ideal step towards senior technical or managerial roles; giving you the expertise and confidence to have a major influence on the success of your organisation.

Facilities

In 2020, the Cranfield Forensic Institute were awarded a multi-million-pound investment which enabled us to design a dedicated forensic teaching, research and student space facility on the Cranfield Campus.

You will have access to our purpose-built outdoor research forensic fieldwork facility, which has been specifically designed to enable research into animal decomposition, taphonomy and excavation of buried remains. We also have unique microscopy services and facilities, as well as analytical and biomechanics laboratories.

We also maintain a strong relationship with the UK Ministry of Defence, and occasional modules may be taught at either the Defence Academy of the UK or at other secure locations in the UK. This gives you access to industry level equipment in a safe and secure environment allowing your learning experience to be as practical as possible.

Industrial expertise

Course content is developed and taught by acknowledged experts who incorporate professional expertise with current knowledge gained through active participation within the forensics industry.

The experiences of casework active staff feed directly into the teaching and research projects undertaken by students, which in turn gives the next generation of forensic scientists and investigators the clearest view of the current paradigm in forensic thinking, and where it might take them next.

Networking opportunities

Our courses include opportunities for meeting fellow students with diverse backgrounds, staff who are still active in industry and visiting lecturers who are experts across the relevant sectors, providing new insights and current thinking on best practices.

What we can offer employers

Increased organisational capability

Our unique portfolio allows you to cost effectively meet skill and knowledge shortages by creating well educated and motivated professionals. Courses are designed to address wider personal skills as well as improving specialist knowledge.

Flexible delivery and practical learning

We can develop bespoke courses to meet specific needs and deliver them at our locations or on-site as appropriate.

The course will be taught through a combination of delivery methods. This includes lectures and hands on practical exercises, such as practical laboratory and field sessions, which reinforce and extend knowledge and wider understanding.

Our courses are flexibly delivered and based on a combination of classroom and lab coursework.

Academic staff

One of the strengths of Cranfield is that we bring together a world-class group of experts to share their experiences.

You will be taught by a wide range of subject specialists who use their research and industrial expertise to provide stimulating and informed input to your learning experience. Cranfield is one of the only universities in the world to have such a diverse range of specialist teaching staff who are still scene active with the police and military personnel. You will be taught by experts who employ their skills in a whole range of historical and/or defence related fields. This includes working routinely on the location, recovery and identification of individuals in combination with police, MOD and charitable organisations.

Forensic short courses

Cranfield Forensic Institute can offer you a unique gateway into forensic education. Our staff and secure facilities are at the forefront of their fields, offering a diverse range of forensic science topics including: anthropology, archaeology, ballistics, heritage crime and explosives.

We have a wide range of short courses which allow you to advance your professional and technical development.

The majority of our Forensic short courses will be held at our Cranfield campus. For Forensic short courses which will have content delivered at Cranfield University at Shrivenham transport will be provided from our Cranfield campus.

Courses

Analytical Techniques
Approaches to Ceramic Studies
Archaeometallurgy
Ballistic Impact Protection
Bloodstain Pattern Analysis
Body Fluids
Counter Improvised Explosive Devised Capability*
DNA
Environmental Forensic Science
Explosive Effects on Structures
Fakes and Forgeries
Field Methods in Heritage Crime Investigation
Firearms Investigations
Fires, Explosions and their Investigations

Forensic Archaeology: Mass Grave Excavation
Forensic Ballistics Investigations
Forensic Exploitation and Intelligence
Forensics Investigation of Explosives and Explosive Devices
Fundamentals of Forensic Anthropology: Osteology
Fundamentals of Geomaterials
Further Forensic Anthropology Identification
Hazardous Forensics
International Crimes Against Cultural Heritage
International Heritage Crime
Introduction to Firearms Investigations and Forensic Ballistics
Introduction to Shock and Impact
Investigating Threats to Cultural Heritage
Investigation and Evidence Collection
Investigation of Transnational Heritage Crime
Making Materials: Experimental Approaches
Mass Fatality Incidents
Materials of Biological Origin
Practical Archaeological Excavation
Radiographic Investigations in Forensic Science
Reasoning for Forensic Science
Research Design and Data Analysis
Trace Evidence
UK Heritage Crime
Vitreous Materials

* This course will solely be delivered at Cranfield University at Shrivenham (see page 11).

For more information about our forensic science short courses, contact:

T: +44 (0)1234 754189

E: shortcourse@cranfield.ac.uk

www.cranfield.ac.uk/forensics/cpd

Progression routes

All of our short courses are modules of the MSc courses offered by the Forensic Science Institute (see www.cranfield.ac.uk/cfi), which is accredited by The Chartered Society of Forensic Sciences, as such these short courses can be taken for credit. Participants can accumulate credits towards a postgraduate qualification. Typically a one-week course is worth 10 credits.

In order to receive Cranfield credits, delegates must register as an associate student and successfully pass the assessment associated with the course; this is usually an assignment or examination.

Your progression route to a postgraduate qualification (PgCert, PgDip, MSc) will depend on your chosen postgraduate course of study, delegates wishing to take this route will need to check with us which short courses can be considered.

Postgraduate Certificate

60 credits

Comprises a subset of the syllabus for the taught element of the associated MSc/PgDip course.

Postgraduate Diploma

120 credits

Typically the PgDip represents the taught element of the associated MSc, although occasionally the curriculum requires a group project or integrated assessment.

Master of Science

200 credits

Typically requires an individual thesis project on top of the taught elements.

The MSc is accredited by:



In-company and customised training

How can you help your organisation and employees reach their full potential?

Have you considered in-company training, tailored to your own needs? Our insight is rooted in our powerful professional links, world-class research and what works in practice. As such, we can make a real difference to you and your organisation, whether you are a police force, a government department or NGO, or industry. Benefit from having tailor made courses specific to your business needs, at a time and place that suits you.

We can provide a range of programmes from half-day workshops, to intensive week-long training, informed by the latest research and delivered by leading experts in the field.

Talk to us about how we can develop your staff and enhance performance in your organisation.

E: shortcourse@cranfield.ac.uk



Locations

Cranfield University at Shrivenham

Cranfield University at Shrivenham is located at the Defence Academy, which is a secure Ministry of Defence (MOD) site. It is situated in beautiful countryside near Swindon, with quick and convenient links to London and major UK airports.

Cranfield Campus

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.

Cranfield Ordnance Test and Evaluation Centre (COTEC)

COTEC is situated on the edge of Salisbury Plain in Wiltshire. Delegates will have the opportunity to use the facilities at COTEC to undertake exercises, evaluations and independent tests at this safe and expert site where relevant to the programme they are undertaking.



Virtual tour

See inside some of our facilities:
virtualexperience.cranfield.ac.uk

Important information about security clearance for courses that are held in full or part at Shrivenham. Some Cranfield University courses are delivered at the Defence Academy of the United Kingdom, Shrivenham which is a Ministry of Defence (MOD) site. All applicants to courses that are wholly or partially delivered at Shrivenham must complete the Shrivenham Station Baseline Personnel Security Standard Course/Visitors/Employment (Annex D to SSSO 40) or must already hold a security clearance to this level or higher. Please refer to the course page on the website for full details.

www.cranfield.ac.uk/forensics/cpd

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