

Academic year 2024/25 entry

Cranfield University

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

of our research is world-leading or internationally excellent

Research Excellence Framework (REF) 2021

£150 million

of investment in new facilities over the past five years Top 30 in the world

for Engineering – Mechanical, Aeronautical and Manufacturing OS World University Rankings by subject, 2023

A professional network of 75,000+ alumni, from 177 countries

5,000+
postgraduate students
from 100+ countries

Six-time winner

Of the prestigious Queen's Anniversary Prize

As we are postgraduate only, we are not listed in league tables that help compare undergraduate universities, such as *The Times World Rankings* and *The Complete University Guide*.

"My major highlights have included the opportunity to work on the group project with other colleagues from different diverse backgrounds, because this has helped me change the way I think. Also having the chance to go on field trips and interact with experts in the field of what we are studying here at Cranfield."

Isaac Opoku,

(Current student, Design Thinking MDes)

Reasons to study **design** with us

A unique design experience

As we look to the future, the need for advancing technologies to stay competitive in the marketplace has never been so important, as we look to provide a positive change in society with sustainable design. On our Design Thinking MDes you will gain hands-on practical experience throughout your course, and by working on industry projects you are not only developing industry relevant skills, but are also building your network for your future career.

Projects with industry

During your group and individual projects, you will be able work with our industry connections and apply the technical knowledge you've gained throughout the modules to tackle real-world challenges. Projects are supported by external organisations such as the Bill and Melinda Gates Foundation, Cisco, SABMiller and Unilever.

3 Learning environment

Our design course is run by Cranfield Centre for Creative Competitive Design (C4D), an internationally recognised and award-winning centre of excellence for creative design, strategy and leadership. We operate globally, integrating creativity into business and we are acknowledged as a trusted brand for industry in delivering high-impact research.

Global connections

We collaborate with international organisations, by integrating educational and research activities to develop new commercial practices. Our approach has made us the design partner of choice for global brands and innovative businesses.

Funding opportunities

We have generous scholarships available to help support you with paying your tuition fees or associated

Outstanding facilities

living costs.

During your studies you will have access to our on-site state-of-the-art technical workshops with rapid prototyping equipment, which will enable you to create breakthrough solutions to major challenges and convert ideas into industry-ready proof-of-concepts.

Research networks

Our leading breakthrough research in the fields of strategic creativity, the Circular Economy, materials development and data-driven projects sets us apart. You can draw on our extensive research networks, including being one of just seven international partner 'pioneer universities' working with the Ellen MacArthur Foundation.

8 Management skills

We work closely with our globally-renowned School of Management through modules, workshops and projects.



Design Thinking course

The strategic use of creativity is crucial for the success of any business and often provides competitive advantage across the marketplace. At Cranfield we work closely with leading industry employers.

This ensures that our students are fully trained as professional design thinkers and innovators, who are equipped with a unique skill set that meets the needs of industry now and in the future.

We welcome students from a wide range of disciplines – the most important consideration is a passion for applied design thinking and the desire to make a difference in your chosen industry.

To keep our courses relevant and up-to-date, modules are subject to change. Please see the website for the latest information.

Design Thinking

www.cranfield.ac.uk/designthinking

MDes, PgDip, PgCert (full-time or part-time)

This course integrates state-of-the-art approaches in design-driven innovation, design management and design research. We will provide you with tools and techniques to capture user insights, visualise complex data flows and develop innovative prototypes.

Compulsory modules

- · Circular Innovation,
- Creative Enterprise and Entrepreneurship,
- Design, Technology and Prototyping,
- · Project Management,
- · User-centred Design.

This course is accredited by the Chartered Society of Designers.

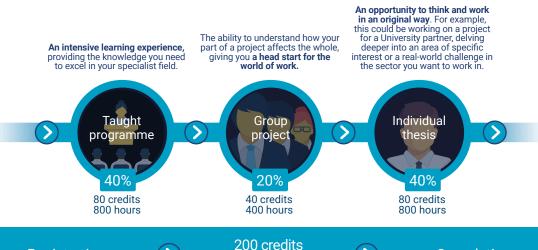




Course structure

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

This diagram illustrates the course structure for our full-time Design Thinking MDes. Please check the course structure online for more detailed information, including the weight of each phase and part-time course structure variations.





Cranfield's group project experience provides you with the opportunity to take responsibility for a consultancy-type project while working under academic supervision.

Completion

Some recent projects include:

Registration

- Working with Heathrow Airport to implement a user-centric design strategy to improve the airport journey for a core user group, undertaking journey mapping and implementing an improved strategy.
- Working with a leading authority in the production of printed circuit boards to re-evaluate the production process as a means of implementing a circular innovation framework.
- Undertaking research on behalf of leading aerospace company Safran to design and develop new technology to improve user/customer experience and comfort during flight.

Industry connections

Cranfield has unrivalled links with industry. You will benefit from our extensive contacts and track record of close collaboration with governments and the design sector. These links include project sponsors and our extensive alumni network.

Working with industry

The group and individual projects that you will take as part of your course, are often run in collaboration with our industrial partners. More information about group projects can be seen on page 5 and some of our partners are shown on the back cover of this brochure.





Careers

The design sector offers a wealth of stimulating employment opportunities for ambitious graduates with the mix of advanced knowledge and practical experience that a Cranfield degree provides.

We are proud of our alumni community. Here are some examples of the type of roles our graduates have gone on to, and the organisations they work for:

Roles

- · Business Development Manager,
- · Design Consultant,
- · Design Engineer,
- · Design Strategy Manager
- · Head of Design.
- Innovation Researcher.
- Mechanical Design Engineer,
- · UX/UI Designer.

Organisations

- · Dell,
- · Deloitte.
- · Electrolux.
- · Heathrow,
- · Rolls-Royce,
- · Safran.
- The Ellen MacArthur Foundation,
- · Unilever.



We were asked by American multinational consumer goods company Procter & Gamble (P&G) to conceive and develop a technology which many of their experts felt was 'impossible'. Within two years, we had not only found a solution, but developed this revolutionary new technology into a complete working system ready for handover.

Key facts

- The solution was developed in our Breakthrough Innovation Lab – which sits within C4D. The lab is used to better understand the nature of breakthrough innovations through a combination of cutting-edge industry and academic collaborations.
- We are continuing to work with P&G to take this new technology to higher levels of performance and its ultimate conclusion as a fully-integrated system within their world-leading production lines.
- Like much of our breakthrough innovation work being undertaken, it remains confidential due to its commercial sensitivity and value.

Impact of our research

- We managed to overturn 100 years of stagnation in production line technology with a breakthrough innovation in less than two years.
- Such was the difficulty of the challenge that, as a result of the efforts undertaken, new avenues of research were identified for the study of creative behaviour associated with developing breakthrough innovations.

Academic staff

You will be taught by a wide range of subject specialists from the University and industry professionals who draw on their research and industrial expertise to provide stimulating and informed input to your learning experience.

Here are some of the staff you will be taught by:



Dr Adriana Encinas-Oropesa, Lecturer in Design and Materials

Adrianna's research interests include the strategic development and evaluation of materials and methodologies as innovative solutions through a sustainable vision. She has over 15 years of experience evaluating performance and degradation of materials. www.cranfield.ac.uk/aencinas-oropesa



Paul Lighterness, Programme Director, Lecturer in Product Design

Paul is an experienced multidisciplinary designer, who has worked on a variety of international projects as a consultant, design strategist and design professional. He is experienced in pushing the boundaries in bringing exciting new products to market through user-centric research, ideation, product testing and fabrication.

www.cranfield.ac.uk/paullighterness



Dr Trung Hieu Tran, Lecturer in Data Analytics

Trung is trained in analysis, design and implementation of mathematical programming models, meta-heuristic algorithms and multi-criteria decision-making techniques in the areas of production planning and scheduling, logistics and supply chain management, port operations and urban planning.

www.cranfield.ac.uk/ttran



Dr Enes Unal, Lecturer in Design for the Circular Economy

Enes leads the Design Thinking course and the Centre's development in circular innovation and circular economy principles, collaborating with recognised experts within the field. He has worked with a number of international organisations to implement tools, techniques and strategies.

www.cranfield.ac.uk/eunal



Professor Leon Williams, Professor of Design-Led Innovation

Leon has successfully worked with globally acknowledged organisations such as IBM, P&G, SABMiller and Whirlpool and has led more than 50 research projects funded by industry and/or governments that operate on a global scale.

www.cranfield.ac.uk/lwilliams

Key facts and statistics

Course information



Full-time One year



Part-time

Up to three years See the course page for more information about part-time study.



Start date October



MDes/PgDip/PgCert



Fees

Please see the individual course pages 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 38% UK 62% International



Typical cohort age 20-30 years



Average cohort size



54% Female 38% Male

8% Other

*These figures give an indication of the course make-up at registration across our design thinking course for the entry year 2022-2023.

"My advice would be to make good use of all the resources that Cranfield provides, and be confident enough to say what you're passionate about, what you're good at and what you're not good at. You'll be surprised to see how the faculties and coursemates support, create and guide you through the journey."

C J Varghese,

(Current student, Design Thinking MDes)



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, Entrepreneurship, Sustainability and Outreach to showcase your new skills to prospective employers.

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

Financing your studies

If you need advice on funding your course or living costs, we can provide information and a range of online tools to help you put together the funding package you need.

There is more information on our website:

www.cranfield.ac.uk/funding

How to apply

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

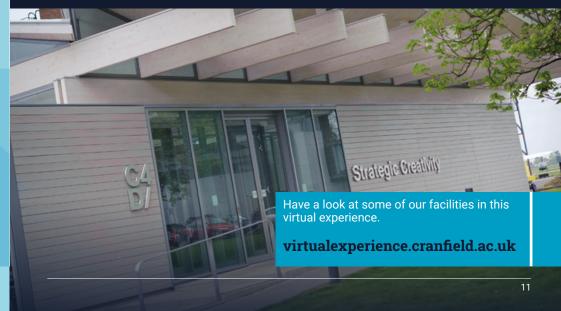


Life at Cranfield

A welcoming, professional campus community.

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 University works with over

1,500 businesses and governments based in over 40 countries

These organisations include:













Related programmes:

Agrifood: www.cranfield.ac.uk/agrifood Energy: www.cranfield.ac.uk/energy

Environment: www.cranfield.ac.uk/environment

Water: www.cranfield.ac.uk/water

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

www.cranfield.ac.uk/designthinking

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blogs.cranfield.ac.uk

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