## Centre for Logistics, Procurement and Supply Chain Management

Thought leadership. Business results.



# **Cranfield School of Management**

**Cranfield School of Management is a world leader in postgraduate management** research and education. As part of Cranfield University, the UK's only wholly postgraduate university, we are uniquely placed to connect technology and leadership. We work with industry and government to transform knowledge into action. Our contribution to global innovation is world-leading, changing the way society thinks, works and learns.

We are proud of our links with industry. They are an integral part of our history and vital for our future. Management theory and practice has been taught at Cranfield University since the 1950s.

The University was founded on an old Royal Air Force site as the first postgraduate college of aeronautics. The School of Management grew out of industrial need for management training and was formally established in 1967 (although the Cranfield MBA dates back to 1964). The airfield the University grew up around is still in use.

We are globally recognised for our excellence in leadership development and for our powerful industry links and real-world focus.

### **Key activities**

- · Leading-edge, collaborative research and consultancy.
- Postgraduate degree programmes (MBA, MSc, DBA, PhD).
- · Master's level apprenticeship programmes.
- · Executive development for middle and senior manager.

EFMD

· Customised company programmes.

We are one of only 90 business schools worldwide to be awarded Triple Crown accreditation:



# **Centre for Logistics, Procurement** and Supply Chain Management

Our Centre is based in the School of Management. It provides an international focal point for advanced teaching and research in the fields of logistics, procurement, supply chain and transportation management.

#### Engagement opportunities

We have a global focus and much of our work has an international dimension. This is reflected in our established links with leading centres for supply chain research and practice in Europe, North America, South America and Asia-Pacific.

Our Centre offers a number of programmes and short courses tailored to specific company needs, as well as research and project support opportunities in logistics, distribution and transportation, procurement and supply chain strategy:

Full-tim	e and executive master's degrees	S
Master	s level apprenticeship programm	es
Master researc	s theses projects (company-base h)	ed
Open e	ecutive programmes	
Custom	ised executive programmes	
PG Cer	in Supply Chain Practice	
Agile S	pply Chain Research Club	
	ancy/research projects tailored t ation's needs	o your

PhD and DBA Programme

### **Advisory Board**

As the Centre continues to grow and extend its global visibility, we will continue to rely on our Advisory Board in pursuing our long term goals.

### **Connect with us**

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## For more information

Visit the Centre website:



The Centre has an Advisory Board which ensures our relevance to current/future practice. This Board draws its members from across diverse sectors of industry, commerce, government, the armed forces and professional bodies. Members currently include senior managers and professionals from organisations such as the Department for Transport, Gartner, Odgers Berndtson, Oracle, Rolls-Royce, the Chartered Institute of Logistics & Transport (CILT), the Chartered Institute of Procurement and Supply (CIPS), Vodafone and other stakeholders.

@cranfieldlscm

in cranfield-logistics-procurementsupply-chain-management-centre



# Master's degrees

Cranfield boasts one of Europe's largest specialist logistics, procurement and supply chain management faculty and is renowned as a centre of excellence in this field. Many of our faculty are leading experts with international reputations for teaching and have held senior positions in multinational organisations. Our teaching is designed to nurture your practical business skills and confidence, and places significant emphasis on real-world challenges. We co-design our Master's degree programmes with senior professionals from logistics, procurement and supply industries.

All of our Master's programmes are accredited by the Chartered Institute of Logistics and Transport (CILT), the Chartered Institute of Purchasing and Supply (CIPS) and the European Logistics Association (ELA).





For more information about our Master's programmes please visit www.cranfield.ac.uk/som/mscscm

"The reason Cranfield's course is so attractive is that it is very comprehensively structured and covers knowledge and tools that you can apply in nearly all industries in the future."

Yaoting Chen, (Logistics and Supply Chain Management MSc, 2021)

### **Executive Logistics and Supply Chain Management MSc**

Our two-year part-time programme is designed for experienced logistics, supply chain, procurement and business managers who want to enhance their skills, knowledge and confidence to take on more demanding executive roles. It is also suitable for ambitious professionals who are keen to develop themselves and want a real-world education delivered by faculty who are actively engaged with business. This part-time programme meets the requirements of the revised Level 7 Senior Leader Apprenticeship Standard. Eligible UK organisations are able to use £14,000 of their Apprenticeship Levy to cover the taught elements of the programme (i.e. 12 modules) tuition fee. Progression to Executive Logistics and Supply Chain Management MSc can be funded by the employer or employee.

We also have an online variant of the Executive Logistics and Supply Chain Management MSc which will start in 2024.

Logistics and Supply Chain Management MSc **Procurement and Supply Chain Management MSc** Our full-time Master's programmes are designed for recent graduates with a good undergraduate degree who want a broad understanding of logistics/ procurement and supply chain and wish to prepare for their first professional role and future career in the field. It is also suitable for early-stage logistics/ procurement and supply chain professionals looking to enhance their knowledge and skills and move to the next level.

"The lecturers have a fantastic academic knowledge of their subjects, but also real-life examples aplenty from projects in industry."

James Guyett, Demand Planning Specialist (Executive Logistics and Supply Chain Management MSc, 2021)

# Master's theses projects

### (company-based research)

Each year, we develop around 250-300 high calibre professionals through our full-time Master's programmes. Your organisation can partner with our Centre to host a Master's project that can provide new business and supply chain insights.

Company projects are a key element of the Cranfield experience. Students are motivated to apply the knowledge gained through their Master's programme in a commercial environment and gain experience working on a real business issue. Projects cover a wide range of topics and are conducted from the end of April to the beginning of September.

#### Your organisation will gain access to:

- · talented and motivated students working on a project within your business for four months,
- analysis that supports the business goals of your organisation,
- leading academics in logistics, procurement and supply chain management, and the latest research insights and approaches in the field,
- customised, high quality, low cost and objective research into areas that you may not have the time, resources or expertise to address.



For more information please visit www.cranfield.ac.uk/som/scmthesesprojects

"The thesis is structured in a way that sets out both the latest academic research together with an analysis of current practice within your organisation. Comparing and contrasting the two can be very beneficial. I've personally enjoyed my engagement with both the students and staff of Cranfield University. I highly recommend sponsoring an MSc student." Paul Watson, Group Supply Chain Strategy Manager, Tullow Oil

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Companies students have completed projects with include: BAE Systems, Bentley Motors, Britvic, Crown Agents, Ernst & Young, John Lewis, Kuehne + Nagel, Nestlé, Pitney Bowes, PwC, Saint-Gobain, Severn Trent Water, Siemens, Volkwagen, and XPO Logistics.

# **Open executive programmes**

### Our Centre offers an executive programme which is open to individuals and small company groups (up to five attendees).

### Supply Chain Management Programme (5 days, residential) Runs every March and September

Our programmes will give you the very latest knowledge, tools, methods, strategies and solutions to manage your supply chain operations in the Industry 4.0 Digital Era.

### Who should attend?

- · Supply chain leaders, managers and executives,
- Marketing, customer service and manufacturing managers and directors seeking supply chain integration, or who need to understand the impact of supply chain decisions upon their company's performance.

### **Programme overview**

You will gain:

- an understanding of Industry 4.0 The Digital Era and how to leverage transformative technology into your supply chain operations,
- insights into global megatrends and their impact in supply chains,

- knowledge of how to map the supply chain, applying our time based strategy approach to add value to your organisation,
- an understanding of how to optimise your agile supply chain methods to increase resilience,
- smarter supply chain capabilities to achieve competitive advantage,
- an understanding of strategic approaches to sustainable supply chain management.

The programme is led by Professor Emel Aktas, Professor in Supply Chain Analytics. It is endorsed by The Chartered Institute of logistics and Transport (CILT) and has been awarded 30 hours' continuing professional development (CPD).

# Customised executive programmes

**Cranfield School of Management is ranked among the top business schools** in Europe for customised executive development. We are a leading provider of award-winning programmes for executive education using our unique approach to design and deliver.

With more than 40 years of experience in supply chain executive education, our Centre delivers practical executive education that helps managers progress and businesses grow, all of which is based on a long-term and personal relationship.

Our programmes offer value-based training as a proven method to unlock potential in your supply chains, by transcending the formal training period to include pre- and post-course interventions, ranging from online learning, to work-based projects, designed to enrich and embed learning and development.

Our programmes inspire individuals to improve businesses. Our approach and content are practical, challenging and motivating and aims at putting knowledge into action. Managers return to their organisations better equipped to use their personal capabilities and confident with the newly gained skills to add value to their business.

Current clients include: Arla Foods, Coca Cola HBC, Efficio Consulting, Kuehne + Nagel, Marks and Spencer, Saint-Gobain Building Distribution, Sonepar and Network Rail.

#### Strategy development

Senior executives seeking to maximise business performance and develop practical business solutions can benefit from our structured executive workshops.

#### Senior management development

Senior managers who may have gained significant expertise, but within a single operational function, can benefit from supply chain executive education to realise their business leadership potential and develop their skills and knowledge.

#### Strategic alignment and change management

Organisations which lack the breadth and depth of managerial capability to align and integrate their supply chains and bring about change in a way that leads to superior performance.

#### Career development

High potential, early career professionals who have been recognised by their organisations to have managerial potential, and who want to move their career forward rapidly.

#### Supply chain capability development

Organisations seeking to develop an internal competency around supply chain management and build the next generation of supply chain leaders.



Working in innovative ways, we offer:

- One of the largest faculty teaching and learning centres for Logistics and Supply Chain Management in Europe, · World-class expertise in learning design and programme direction,
- Thought leaders in logistics, supply chain
- management, data analytics and procurement,
- Real life solutions underpinned by industrial research,
- · Co-design of the programme respecting the specific needs and the requirements of the group.

### Levels of engagement

We work at all levels across the supply chain

- organisation. Some examples of the ways we can
- support supply chain development are detailed below:



# Our approach

We design our programmes around your specific needs. Our starting point is to understand the impact you are seeking to achieve and the state-of-play. What is happening in your organisation? How will this learning programme contribute to the achievement of your strategy? What do your people need to be able to do differently?

We will partner you with an Executive Development Director (EDD), from our supply chain team, who is a thought leader in the specific discipline.

The EDD works closely with you, from discovery and design, through delivery, to evaluation, on learning programmes that are uniquely created to meet your objectives. The EDD ensures that together we meet the pact expectations of your stakeholders, including senior sponsors, the managers and participants.



### PgCert in Supply Chain Practice Programme

Modular Closed Programme (Physical / Hybrid) (Award Programme or Short Course) Duration: 12 – months. 4 x 5 – day modules

The Cranfield PgCert in Supply Chain Practice allows a company to offer a unique educational and developmental journey, exclusively for its employees. This Programme is an exact mirror of our open programmes but dedicated and contextualised to your specific needs.

The closed Programme comprises of 4 modules (which can also be attended as an individual short course) that give to both the delegates and to the sponsoring company, economies of scope and scale and generates a classroom dynamic by opening the programme to a wider network of colleagues within the company and its stakeholder community.

## Customised 5-day Supply Chain Excellence Programme

The supply chain excellence programme can be customised to your company specific needs. The programme is an opportunity to introduce to your logistics, procurement, purchasing and supply chain teams the essential foundations and future trends of supply chain. Furthermore, for more advanced teams, we offer a deep dive into those issues and challenges that create change/risk, or hinder growth.

Indicative content we are currently delivering, includes:

- Supply Chain Strategy,
- · Operations and Inventory Management,
- The changing competitive environment,
- · Lean and agile Supply Chains,
- From forecast driven to demand driven supply chain management,
- · Supply chain Risk and Resilience,
- · Data Analytics for supply chain management,
- · Supply Chain Alignment,
- Supply chain finance, Strategic procurement,
- Supplier Relationship strategies,
- Shipping and Maritime Logistics,
- Warehouse Design,
- Network Design,
- Industry 4.0 and Supply Chain 4.0.

Duration: 5 x days or split into 3x days plus 2 x days.

We will co-develop a specific learning path that addresses the key issues, challenges and objectives. We will draw the content from our current graduate programmes' collateral and from our thought leadership and we co-design this content so that it specifically meets your needs.

For more information about our customised executive programmes, please visit : www.cranfield.ac.uk/som/cep

Or contact Noreen Munnelly, E: n.munnelly@cranfield.ac.uk T: +44 (0)1234 754 984

# Agile Supply Chain Research Club

Our Agile Supply Chain Research Club (ASCRC), founded in 1998, seeks to address the key 21st century logistics and supply chain challenges through a combination of cutting edge research and, through the support of its members, customised insights into the complexity of today's supply chain environments. The primary focus of the Club is the creation of new knowledge, leading to outputs of value to our industrial partners and our teaching.

### Our aim

The aim of our ASCRC is to improve supply chain management by creating a collaborative forum where member companies and Cranfield School of Management faculty can share knowledge and experience on promising supply chain practices, and benefit from the knowledge generated by Cranfield University's research.

### Who is it for?

Supply chain and logistics directors and senior supply chain professionals.

### Principles that guide our work

- We publish our research in leading logistics and supply chain journals to document our work and publicise it to the broader logistics and supply chain community,
- Our research must lead to outputs that are usable by industry and teachable in the classroom.

#### Key membership benefits

- Join an interactive forum for addressing challenges within the field to help you improve the practice of supply chain management within your organisation,
- Participate in research projects with leading companies such as DHL and Mars,
- Attend our themed quarterly Club meetings with academic and guest speakers and gain access to related presentations and papers through the members' portal,
- Enjoy corporate discounts of between 10-25% on the Executive DBA, Executive Master's programmes and open specialist executive programmes.





formation about our	Members include:		
ly Chain Research e visit	Nestle	Jaguar LandRover	
eld.ac.uk/som/asc	Airtanker	Journey Protector	
	Camgrain	Mars	
	Caterpillar	Maclaren	
fees apply	DHL	Network Rail	

"Over the 13 years I've had the pleasure of directing this club I've seen it grow from a handful of companies to eighteen. When asked 'what is the core strength of this club, aside from Cranfield's strong research base?' I always reply 'the cross sector and diverse nature of its members. This provides the potential for companies to gain innovative ideas on how supply chain challenges can be addressed.

We've covered many topics over the years as voted by our member companies. From soft issues such as supply chain talent and leadership for the new normal and supply chain management in the Boardroom to more technical, such as revolution in information infrastructure technologies and emerging physical infrastructure technologies. Over the last couple of years, in response to keen demand we have covered restructuring supply chains for the new normal."

**Dr Heather Skipworth,** Associate Professor, Logistics, Procurement and Supply Chain Management

For more inf

Agile Supply

Club, please

www.cranfie

Membership



# Consultancy/research projects

The Cranfield team has undertaken numerous projects which have been supported by major bodies, companies and stakeholders such as BAE systems CORDA, DHL Express, GSI UK, Knight Frank, NHS Blood and Transplant, Our applied research and consulting work creates a long-lasting impact and makes a significant difference to the workings of our clients and stakeholders.

### **Research projects**

### **ReSChape (Reshaping Supply Chains for Positive** Social Impact)

Project ReSChape is a three-year collaborative research and innovation action project with partners from five other European countries (Aston University, UK; Consiglio Nazionale delle Ricerche-Università degli Studi di Padova, Italy; INESC Technology and Science, Portugal; Fraunhofer IML, Germany; RWI - Leibniz Institute for Economic Research, Germany; Zaragoza Logistics Center, Universidad de Deusto, Spain; Eindhoven University of Technology, The Netherlands; IRIS Technology Solutions).

As a result of the recent pandemic, global value chains have been affected. In this context, project ReSChape will analyse social, economic and environmental changes and disruptions, including the COVID-19 pandemic, and evaluate their impact on supply chains. The aim of the project is to propose new supply chain models and to explore policy scenarios with the goal to put workers, consumers and in general citizens at the centre of creating a positive social impact.

### The Internet of Things (IoT)-Blockchain-based system for visibility and sustainability in shipping industry

The Accelerated Knowledge Transfer Partnership (AKTP) project was led by Dr Abhi Ghadge with Modular Clinton Global (MCG) Ltd, as a business partner. This AKTP project aimed to develop an IoT-Blockchain-based digital platform to track and assess cold-chain containers in maritime operations to achieve improved visibility and sustainability. Insights generated through interviews with maritime experts, best case studies and secondary data were used to develop a system architecture. This 'IoT-Blockchainintegrated architecture' captures product flows and computes carbon intensity index throughout the maritime journey, enabling transparency and control

to maritime service providers. The output from this UKRI Innovate UK funded project will further support MCG in developing a modular digital platform for implementation in the shipping industry.

### **Resilience Project**

This project offered an opportunity to bring our team together building on the 2003 Department for Transport thought leadership workbook "Creating Resilient Supply Chains: A Practical Guide" led by our Emeritus Professor Martin Christopher. The current project developed an updated "Guide to Modern Supply Chain Resilience" to illustrate the challenges faced by modern supply chains and to showcase how Cranfield based research can inform and help to manage these challenges through a set of case studies. Dr Nicky Yates, Professor Richard Wilding and Dr Abhi Ghadge worked on this project and based on Professor Wilding's thought leading work an outline framework has been developed.

### New Research Project funded by BBSRC

This project is funded by the Biotechnology and Biological Sciences Research Council (BBSRC) and it is entitled "Co-production of healthy, sustainable food systems for disadvantaged communities". The funded value of the project is approximately £6 million, it will run for 5 years and its core aim is to provide citizens of socio-culturally diverse disadvantaged communities with choice over the food they consume, by codeveloping new products, new supply chains and new policy frameworks that deliver an affordable, attractive, healthy and sustainable diet.

For this research, 'disadvantaged communities' refers to people who live in food poverty and/or are food insecure. This project is led by Professor Michael Bourlakis and supported by Dr Emmanuel Sawyerr.

# Doctoral programmes

### The Research Excellence Framework 2021 (REF) assessed that 85% of Cranfield University's research is world-leading or internationally excellent.

Within this vibrant research environment Cranfield School of Management offers the following distinctive doctoral programmes.

### PhD Programme

Our predominantly full-time PhD programme is for those who wish to pursue an academic career. It is internationally renowned, for its rigour, faculty support and global perspective.

Participants in the PhD programme focus on making a contribution to management literature and theory supported through world class supervision and researcher driven research methods training, centred around a set of core masterclasses.

"Getting a PhD is a life changing experience, and I cannot express enough how glad I am to be able to join the PhD programme here in the Centre for Logistics, Procurement and Supply Chain Management. The environment is very friendly and welcoming from day one, I get plenty of opportunities to talk to and work with top academics in the area – right here in the Centre, and make great friends - fellow PhD researchers who are highly motivated and supportive. Most of all. I am forever thankful for my two supervisors, who wholeheartedly help me to become a better researcher every day."

Nam Vu, (PhD Programme, 2023)

### **Executive DBA**

Our Executive DBA is the highest-level business gualification available. It is a unique, research-based, practice-driven programme, using the latest research tools and techniques to develop leading-edge thinking and analytical skills. It is designed for senior practitioners, policymakers and consultants seeking leadership positions in their organisations and

"As a global supply chain executive, pursuing a doctorate while working and raising a family is an enormous undertaking. The Cranfield DBA is ideal because it is both rigorous and flexible. It is taught by world-renowned faculty with deep subject research expertise, and attracts students from every continent. The mix of in residence sessions with independent research have allowed me to become an expert in my particular area of interest, while also creating a sense that I am part of the campus community."

This PhD topic will be focused on a key operational and business challenge this industrial partner is facing and it will be co-developed by working closely with us.

If you are interested for this exciting opportunity please contact Professor Michael Bourlakis at: m.bourlakis@cranfield.ac.uk

professions. The programme is offered on a part-time basis, over four years, while remaining in employment. The Cranfield DBA is one of the few worldwide to hold an Association of MBA (AMBA) accreditation.

Daniel Stanton, CEO, Chief Learning Officer and Author (Current Executive DBA researcher)

### PhD Co-funded (50-50%) by an Industrial Partner

We would like to work closely with our industrial partners for a 50% match-funded PhD. Specifically an industrial partner will be expected to contribute around £20k per year for 3 years covering 50% of costs (fees and stipend) for the duration of a PhD (3 years) whilst the remaining amount is provided by our Centre.

## Our expertise



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### Professor Michael Bourlakis

Director of Research and Director of the Centre for Logistics, Procurement and Supply Chain Management

- Retail supply chains,
- Food supply chains,
- Sustainable supply chains,

Dr Ismail Abushaikha

Humanitarian logistics,

**Professor Emel Aktas** 

· Supply chain decisions,

Mathematical modelling,

Professor of Supply Chain Analytics

· Logistics and transportation,

· Warehouse management,

· Supply chain management.

Chain Management

Senior Lecturer of Logistics and Supply

· Digital supply chains.



#### **Dr Faroog Habib**

Senior Lecturer and Deputy Director of Procurement and Supply Chain Management MSc



- · Negotiation and contract management,
- Risk management,
- Lean six sigma.





### **Dr Ioannis Koliousis**

Associate Professor of Logistics and Supply Chain Management, Director of Executive MBA. Director of Executive Development for Supply Chain Management

- · Supply chain and operations management,
- Transport and shipping,
- Urban logistics.
- · Renewable and alternative energy sources.

### **Professor Aristides Matopoulos**

Professor of Supply Chain Management



- · Supply chain readiness and upscaling,
- · Supplier-buyer relationships,
- · Sectors: manufacturing, automotive, aerospace, defence and retail.



### Dr Banu Y Ekren

Optimisation.

Senior Lecturer

- Design and analysis of supply chains,
- Warehousing,
- Inventory modelling,
- Simulation and analytical modelling.



### **Dr Abhijeet Ghadge**

Associate Professor in Logistics and Supply Chain Management

- · Supply chain risk and resilience,
- · Supply chain data analytics,
- · Sustainability/circular economy,
- Industry 4.0 applications in supply chains.







### **Professor Melvyn Peters**

Practice and Director of Education

- · Logistics outsourcing, International sourcing,
- · Freight transportation.

**Dr Lorenzo Prataviera** 



### FT Logistics and Supply Chain Management MSc

· Logistics management, Global distribution network design,

Lecturer in Logistics and Supply Chain

Management and Deputy Director of the

- Supply chain strategy,
- · Supply chain sustainability.



### **Dr Hendrik Reefke**

Senior Lecturer in Supply Chain Management and Director of Logistics and Supply Chain Management MSc

- Operations management.
- Supply chain management,
- · Sustainable supply chain management,
- Warehouse design and management.



Research Fellow in Logistics and Supply **Chain Management** 

- Supply chain management,
- Humanitarian logistics and supply chain Management,
- Supply chain resilience.
- · Procurement.



### **Dr Heather Skipworth**

Associate Professor and Director of the Agile Supply Chain Research Club

**Chain Management and Deputy Director** 

- · Supply chain strategy,
- Sales and operations planning, · Supply chain risk and resilience,
- Supply chain partnerships.

of Doctoral Programmes

· Supply chain management,

 Operations management, · Lean and six sigma.



Supply chain digitalisation and

**Professor Ying Xie** 

decarbonisation, • Big data analytics, machine learning and digital twins,

Professor in Supply Chain Analytics

- Maritime transport,
- · Healthcare supply chain.









# Contacts

### **Full-time Master's programmes** cranfield.ac.uk/som/masters Master's theses projects (company based research)

Dr Hendrik Reefke T: +44 (0)1234 751122 ext 2921 E: hendrik.reefke@cranfield.ac.uk

### **Executive Master's programme** Live online study route cranfield.ac.uk/som/pt-masters

Dr Ismail Abushaikha T:+44 (0)1234 75112 ext 4801 E: Ismail.Abushaikha@cranfield.ac.uk

### **Open executive programes**

cranfield.ac.uk/som/lscmcourses **Customised company programmes Consultancy/research projects** cranfield.ac.uk/som/research-centres

Noreen Munnelly, Business Development Executive T: +44 (0) 1234 754984 E: n.munnelly@cranfield.ac.uk

### Agile Supply Chain Research Club

### cranfield.ac.uk/som/asc

Dr Heather Skipworth T: +44 (0)1234 754515 E: heather.skipworth@cranfield.ac.uk

# How to find us

### Cranfield School of Management – MK43 0AL, UK

The Cranfield campus is located just outside the village of Cranfield on the Bedfordshire-Buckinghamshire border, between Milton Keynes and Bedford.

**By air:** London Luton is around 30 minutes' drive from Cranfield campus, while London Heathrow, London Stansted, East Midlands and Birmingham airports can be reached in 90 minutes. The campus also has its own airport, used by private aircraft owners.

**By rail:** Direct trains from Bedford and Luton to London St Pancras International and fast trains from Milton Keynes to London Euston take just over 30 minutes.

**By road:** Cranfield campus is located ten minutes from the M1 motorway and can be accessed from either junction 13 or 14.



Find out more: www.cranfield.ac.uk/about/how-to-find-cranfield

Every effort is made to ensure that the information in this brochure is correct at the time it is printed. Please check our website for the latest information.



SOM-CLPSCM-Jan 2023