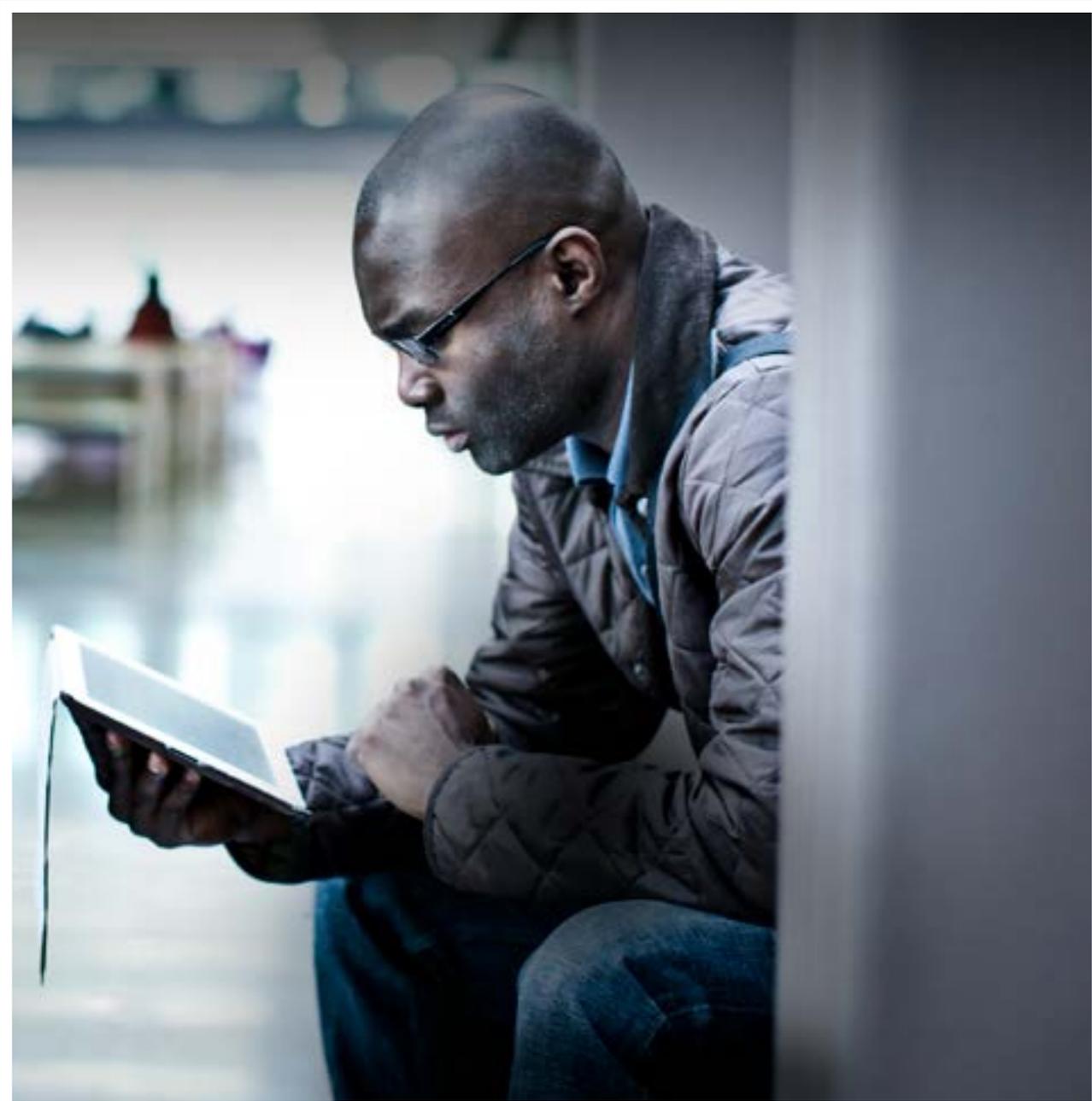


Manchester Metropolitan  
University



**GLOBAL  
ONLINE**  
MSC FOOD SCIENCE  
AND INNOVATION

Professional development that  
fits in with your life



## Welcome

Thank you for your interest in Manchester Metropolitan University's Global Online MSc Food Science and Innovation. We offer students the opportunity to combine a quality education with the flexibility and convenience of studying online. Although we are a modern university, we have earned a global reputation for the strength of our research and the excellence of our teaching.

We hope to welcome you onto the course soon.

### **Manchester: paving the way in food innovation**

Kelloggs, Heinz, Warburtons, McVities: just a few of the globally recognised brands who are headquartered in Greater Manchester, a region that is synonymous with food production and innovation.

Based in a city that is home to the fastest-growing food and drink scene in the UK (CGA, 2019), Manchester Metropolitan University has been paving the way in food science research since the School of Domestic Science was first opened in 1880. Over the past 140 years, we have built strong and long-lasting connections to a wide range of external organisations focused on food production and nutrition – including industrial, commercial and professional bodies. These links will help you to develop your skills over the course of your master's degree and gain further exposure to the industry.

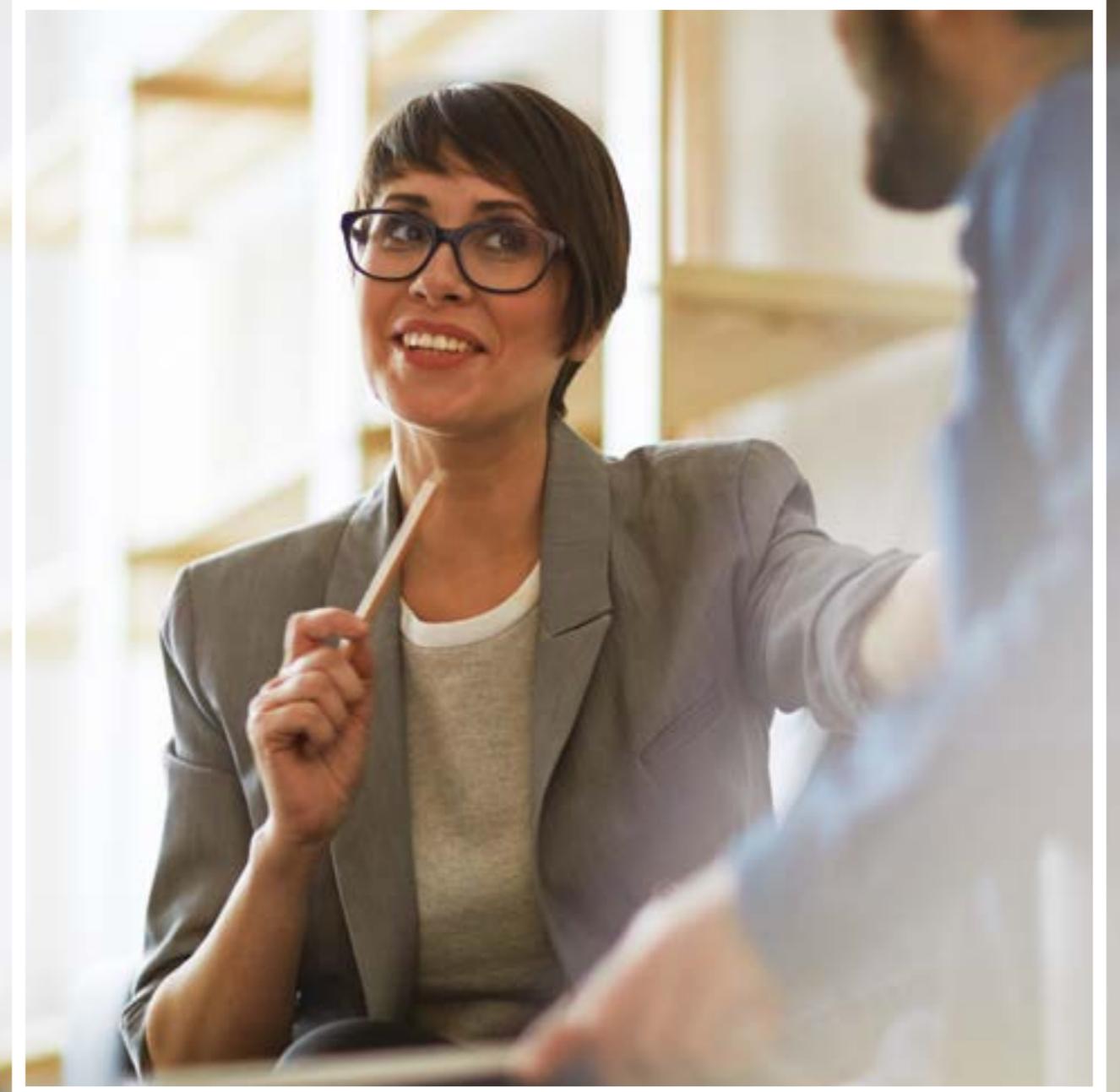


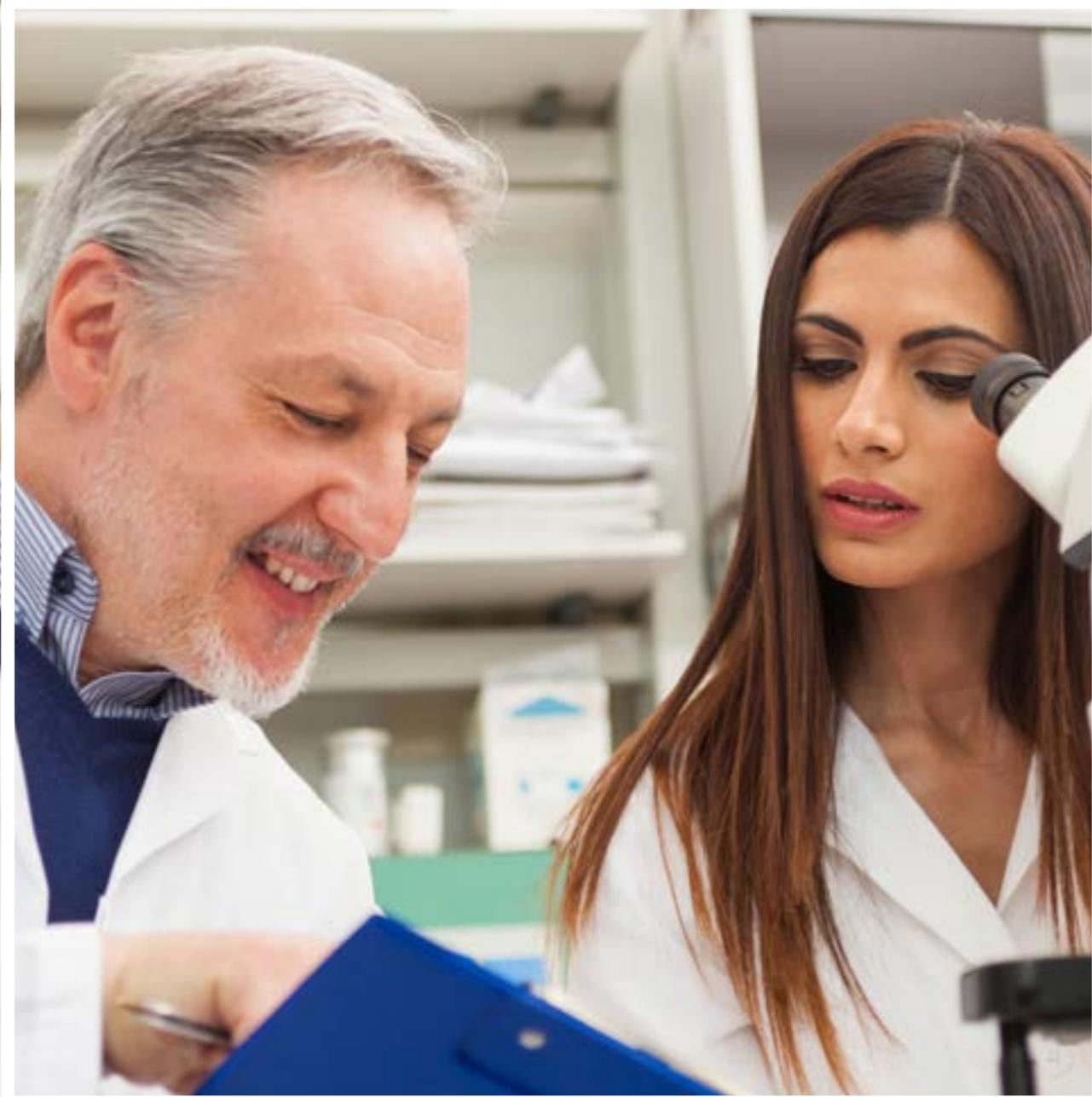
## Gain the skills needed to lead in a global market

We launched Global Online programmes at Manchester Metropolitan in 2017 to give people across the globe access to professional development, delivered 100% online and taught by research-active academics.

Our courses offer a combination of theoretical knowledge with real-world application to help make you a more effective and inspirational practitioner, as well as raise your professional profile. They are designed to offer you the opportunity to sharpen your skills and gain a depth of knowledge that could

help expand your career options, whether you wish to become a specialist in a defined discipline, to branch out into other areas of the business you work in, or even completely change the direction of your career. They are structured to enable you to take control of your future.





## Expand your career horizons in your own space and time

Wherever you are in the world, whatever your job or family commitments, we make it possible for you to earn a respected professional qualification that can take your career to the next level. Manchester Metropolitan University can give you the skills you need to lead in the global market.

Our Global Online programmes have been expertly designed to offer highly-flexible study routes. Through our Virtual Learning Environment, you will have 24/7 access to the tools and materials you need to study successfully and feel part of a supportive community.

You will have access to a wide range of online resources, such as podcasts and readings, to support your learning. You can also participate in live online seminars

with your tutors and peers (these are also recorded to watch back later) as well as attend regular group discussions and projects, during which you can share knowledge and experiences with your fellow students.

Although teaching is 100% online, you will receive continued support from our academics and other Manchester Metropolitan staff, as well as from your fellow students, throughout your two-year programme. You will have

opportunities to network with other food sector professionals around the globe, making invaluable industry connections that can open doors throughout your future career.

“Learning online is a good way to achieve your goals. You can access the Manchester Metropolitan platform 24/7, whenever you need it. The relationship with our Student Success Advisor and tutors is also really close, allowing me to achieve an in-depth understanding of the topic I am studying.”

**Alvaro Benitez,**  
Global Online MBA student, 2018.

# Outstanding teaching and learning support

## Academic excellence

Each Global Online unit has a dedicated teaching team, who combine knowledge of the latest business research and management models with their practical experience and understanding of how theory can be applied. The majority of our academic staff have been business practitioners and many still provide consultancy services in the wider corporate arena.

## Student support

One of our key priorities is ensuring you have access to the support you need to complete your degree successfully. As a Global Online student, you will be assigned a dedicated advisor from our Student Success Team, who will provide you with advice and guidance from registration to graduation.

## Face-to-face experiences

As a Global Online student, you will have the opportunity to visit our Manchester campus during our annual Executive Conference\*. This is optional, but offers you the chance to meet your tutors and other faculty members, team up with fellow students from around the globe to work on professional development activities, and visit Manchester, one of

\*Additional fees apply.

the world's top 20 most exciting cities (Time Out, 2018).

## Manchester Metropolitan University Students Union

You will also be a member of our Student Union – an independent charity that represents the needs and views of our students. The Union works closely with Manchester Met staff to provide a wide range of services and activities including events, online clubs and societies, online student representatives and complimentary phone or Skype interviews with the Advice Centre.

## Library services

In addition to being able to access all of your reading material online, Manchester Metropolitan University Library provides helpdesk support to Global Online students. You can contact them by email, live chat and telephone to discuss a whole range of support, including how to manage your library account online.

## Disability Service

Dedicated advisors provide guidance and information to students with disabilities who may need additional support throughout their studies.

## Health and Wellbeing

The University has a team of professionally-qualified counsellors, mental health and well-being mentors and a mental health advisor.

## Dedicated career and employability support

We will also help you put your new skills and knowledge into practice through the University's dedicated Careers and Employability Service. This offers personal support to help you assess your career options, maximise networking opportunities and enhance your employability skills. Always on hand and available for up to three years after you graduate to help you further your career, services include:

- Individual careers advice
- Access to an online CareerHub system for additional resources and advice
- Support with job applications including video interview support
- Access to Industry networks
- Career mentoring from employers connected to the university
- Practice aptitude and personality tests.

## Graduation

To mark your achievement as a Manchester Metropolitan Global Online graduate, we will invite you to a graduation ceremony in Manchester. This is identical to the ceremony that on-campus students attend and gives you the chance to meet your fellow graduates, celebrate your achievement and experience the sights and sounds of our amazing city.

## Alumni Community

With 290,000+ alumni living and working in 144 countries across the world, when you graduate you will be part of a global network that brings together a huge range of professions, achievements and career paths. You'll be part of a vibrant community that makes a real impact to the world.



# Welcome to the Department of Health Professions

The Department of Health Professions sits within the Faculty of Health, Psychology and Social Care at the University; a thriving, collaborative academic community with innovative, vibrant programmes reflecting new and emerging research and ideologies.

The Faculty aims to provide students with academic theory to help prepare them for their future professional lives.

The Department of Health Professions teaches subjects including physiotherapy, speech and language therapy, acupuncture, and health and social care at undergraduate and postgraduate level as well as delivering professional development courses.

Teaching within the Department of Health Professions is underpinned by first class research and scholarship by our team of highly

qualified Food, Nutrition and Occupational Health Specialists. The Department's core research topics include the development of novel and functional foods, identification of dietary biomarkers, food sustainability and security, epidemiology and public health policy. Staff have been involved in research activities across Europe, Africa and Asia, sponsored by both national and international research funding bodies, and commercial research development initiatives.

## **Business and International Links**

The Department has delivered high quality graduates to many UK companies and the school has close links with regional recruiters and major UK industries through a well-established alumni network.

The Department maintain links with colleagues in clinical practice and research, and is

one of the leaders in the UK's North West in the development of Interprofessional Working on clinical placement for students.

## **Alumni**

All graduates become members of our Alumni Association. Through this global network of like-minded professionals, you will have opportunities for continuous learning as well as the chance to connect with key people in a wide variety of industries and business sectors around the globe.



Follow us:



# MSc in Food Science and Innovation

Gain the specialist skills needed to progress in the expanding field of food and nutrition.

From the effect of climate change on crops, to increasingly volatile food prices and unpredictable fluctuations in supply and demand, the pressures on the global food industry show no sign of abating.

Our MSc in Food Science and Innovation programme covers local and worldwide trends in the food industry. Building upon your

existing practical experience and commercial acumen, it will help you develop the specialised skillset needed to tackle the world's food challenges.

As one of the few programmes in the UK that offers a combination of food science and nutrition modules, you'll cover a broad range of topics, with each unit underpinned by expert research

and taught by academics with real industry experience.

The practical course content will be delivered via lab demonstration videos and interactive tutorials. You will also conduct interactive online lab simulations using the award winning virtual lab, Labster.



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## Course structure and units

This programme is taught over two years with intakes in January, March, May, July, September, November each year. We recommend up to 15 hours of study a week. You are required to accumulate a total of 180 credits to successfully complete your MSc in Food Science and Innovation.

### Entry requirements

To be eligible for this course, you will need to have a good UK honours degree (minimum 2:2 or above) or an international equivalent in an appropriate science-related subject. Good honours candidates from other subjects may still be eligible if they can demonstrate significant proven professional experience in a relevant field. Applicants whose first language is not English (and whose first degree was not taught in English) are required to produce evidence of English language proficiency. We provide a FREE Pearson English test to applicants if required.

### You will study the following units:

- **Critical Reading, Writing and Literature Research**  
15 credits
- **Food Processing**  
15 credits
- **Food Composition and Analysis**  
15 credits
- **Food Microbiology**  
15 credits
- **Food Safety and Quality Management**  
15 credits
- **Fundamental Nutrition**  
15 credits
- **Future Food Sustainability**  
15 credits
- **Innovation in New Product Development**  
15 credits
- **Molecular Nutrition and Biochemistry**  
15 credits
- **Methodological Approaches to Research**  
15 credits
- **Professional Project**  
30 credits

Please note, these units may be subject to change. Unit order is subject to intake.





## Module Overview

### Critical Reading, Writing and Literature Research

This unit introduces the skills required to succeed throughout the rest of the course. The primary aim of this unit is to develop critical thinking, reflective writing and other added study skills, including analysis and referencing, to a master's level. This allows the ability to research and investigate strategic opportunities for organisational improvement.

### Food Processing

This unit will explore the key principles that govern individual unit operations and how they can be combined to build effective food production chains. Reflecting current and emerging trends within food production, the unit will focus on the principles of food processing and preservation, as well as food engineering concepts. Students will use model data from demonstrations of food processing equipment to critically evaluate the design and performance of processing chains.

### Food Composition and Analysis

Students will learn the theory behind food analysis and understand how a food's chemical composition determines its flavour, texture, nutritional value and

safety. They will explore the influence that chemical profiles have on food, and how these can be modified by processing.

### Food Microbiology

This unit focuses on microbiological food hazards and their control, and the importance of microorganisms in food safety and quality. Food Safety and Quality Management This unit focuses on the effective management of risk and product quality throughout the food chain. Using case studies to critically assess quality management systems, students will evaluate contaminants, food hazards, risk reduction, traceability and the role of regulation, compliance, market and price mechanisms in delivery quality.

### Fundamental Nutrition

This unit focuses on how nutritional needs change throughout the various stages of life. Discussing food composition, dietary requirements and the acute and chronic consequences of an imbalanced nutrient intake, students will build their core knowledge of dietary sources of energy, nutrients, dietary recommendations and analysis programmes.

### Future Food Sustainability

This unit will explore the risks, challenges and opportunities for food security, and the innovative technologies and solutions

which can help to increase productivity and reduce environmental impact.

### Food Safety and Quality Management

This unit focuses on the effective management of risk and product quality throughout the food chain. Students will use case studies to critically assess quality management systems while also evaluating: the implications of microbial, chemical, physical and allergenic contaminants food hazards; provenance, risk reduction and traceability in the food chain; the role of regulation, compliance, market and price mechanisms in delivering quality and more.

### Innovation in New Product Development

This unit will examine the key stages in the research, design, development and marketing of new products, and look at industry case studies to help students to understand the managerial and entrepreneurial aspects of an innovative NPD process.

### Molecular Nutrition and Biochemistry

Focusing on human digestion, absorption and metabolism, this unit considers the requirements of food formulation and production in meeting dietary needs. This unit will also develop students' ability to present complex scientific knowledge,

visually and verbally, to lay and scientific audiences.

### Methodological Approaches to Research

This unit will explore critical thinking, reflective writing and other study skills, including analysis and referencing. Distinguishing the key debates in the philosophy, ethics and epistemology of science to justify the relationship between philosophical approaches and choices of qualitative and quantitative methods is examined. Having determined how the research is relevant to the topic, formulating an appropriate methodology and research question to investigate is required.

### Professional Project

This unit involves conducting an in-depth research project on a chosen area of study, bringing together and employing all of the skills learned in previous units. Successfully completing this unit will result in clear links drawn between the literature in the field and the development of research objectives and design of a clear conceptual framework. Moreover, the collection, presentation, discussion and appraisal of data is evaluated; and an overall reflection academically and professionally is required.



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#### Contact us

Call our Global Online Enrolment Team on +44 (0) 161 880 4721 or email us at [globalonlineenrolment@mmu.ac.uk](mailto:globalonlineenrolment@mmu.ac.uk)

## Funding your studies

We know that the financial commitment of postgraduate study can be daunting. But there's a variety of options to help you deal with the costs – and our team is ready to help with advice.

### Payment Options

If you are either a self-paying or a sponsored student, we welcome you to apply.

### Self-paying students

All of your payments will be made online via our secure global payment portal, which offers a number of payment options to suit you.

If you are a UK/EU student, you are able to pay your fees through online bank transfers, credit or debit card payments.

If you are an overseas student, you can pay in your home currency, from a bank account in your own country. Our portal offers a "best exchange rate guarantee" and no additional bank charges.

### Sponsored students

If you are being sponsored by your employer or another approved sponsor, they must pay your fees through the same secure online portal.

### Postgraduate Loans

The UK Government has launched a new postgraduate loan scheme for UK-based students wishing to enrol on a master's course. Students can apply for a non-means tested loan of up to £10,000 to help you fund your studies.

You will not need to make any repayments during your studies and, after this, your repayments will be based on your income to ensure they stay manageable.

### Contact us

If you would like more information on fees, funding and scholarships, please contact our Enrolment Team on +44 (0) 161 880 4721 or at [globalonlineenrolment@mmu.ac.uk](mailto:globalonlineenrolment@mmu.ac.uk)



# Take your next step

We have multiple intakes a year, so you can start the course whenever it suits you best. Places fill up fast, so the earlier you apply, the better. To begin your application, you'll need to contact our Enrolment Team directly on **+44 (0) 161 880 4721** or at [globalonlineenrolment@mmu.ac.uk](mailto:globalonlineenrolment@mmu.ac.uk). You'll then be assigned a personal Enrolment Advisor who will guide you through the simple and straightforward three-step process.



## Important notice

This online prospectus was developed in 2018 to help you choose the right Global Online course for the 2018/2019 academic year. The information therefore reflects the courses as they are at this time. This online prospectus is intended to provide an overview of our programmes of study and the University. The University recognises that the decision about which university and course to apply for is an important one.

You will find further information online on course composition and how a course will be delivered, for example, information on overall assessment methods, career prospects, and placement and volunteering opportunities. You will also find further information on fees.

The provision of educational services by The Manchester Metropolitan University is subject to terms and conditions of contract. A copy of the regulations and policies relevant to the current academic year can be found at [mmu.ac.uk/academic/casqe/regulations/docs/policies\\_regulations.pdf](http://mmu.ac.uk/academic/casqe/regulations/docs/policies_regulations.pdf) and a copy of the Terms and Conditions can be accessed at [mmu.ac.uk/legal/terms-and-conditions/global-online/](http://mmu.ac.uk/legal/terms-and-conditions/global-online/).

If you receive an offer of a place from us, you will also receive a copy of up-to-date information alongside your offer letter.

The University will do all that it reasonably can to provide educational services as described in the online prospectus, or in other documents issued by it, to enrolled students. Sometimes, circumstances beyond the control of the University mean that it cannot provide such educational services. Examples of such circumstances (and the actions the University will take and limits on its liability) are set out in the terms and conditions of contract.

The University is committed to the achievement of equal opportunities. This is central to our mission as a university and as a provider of higher education. This commitment is set out in full in our Equal Opportunities Policy and Action Plan.

To ensure you have up-to-date information, you should check the University's website before you make your application. Please visit [globalonline.mmu.ac.uk](http://globalonline.mmu.ac.uk).

**Manchester Metropolitan  
University**



## Manchester Metropolitan University

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programmes, please contact our Global Online  
Enrolment Team:**

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