“The thing I find most fascinating about Engineering is the way that everything works. And when I see these clever components and these clever systems, I must ask: how does that work?

JAKE TUCKER
BEng (Hons)
Electrical and Electronic Engineering

To see an Augmented Reality video of Jake, please download the Wikitude app from the App Store or Google Play.

1 Download and open the wikitude app
2 Simply type ManMetScience into the search box
3 Scan this page and be amazed!
WHY STUDY ENGINEERING AND PRODUCT DESIGN

Engineering powers the world around us. From communication tools and transport systems, to renewable energy and medical equipment, the innovative solutions and advanced technology that are so integral to modern life involve engineers and designers. It’s a subject that mixes a range of disciplines and skills, from physics and mathematics, to design and project management. The result is the ability to develop a sound conceptual design and take it right through to the perfect finished product.

Study Engineering and Product Design with us and you’ll find yourself at the heart of a school with excellent standards of teaching and research, training in excellent workshops and laboratories, and using the latest engineering software.

Manchester has a thriving industrial economy and we’re very much part of that landscape, with extensive links throughout the engineering and design sector. That’s why our courses offer the chance to work on live industry-led projects – solving current, real-world engineering challenges. And no matter which degree you pursue, you can opt to do a year on placement in industry, further integrating your theoretical knowledge with the practical needs of the workplace.

When you graduate, you’ll emerge as a creative thinker with multi-disciplinary knowledge of design and engineering. You’ll have analytical and problem-solving skills that are in demand across a range of sectors, from advanced materials to aerospace, big data to oil and gas, and rail to renewables – just the tools you’ll need to begin building a successful career of your choice.
WHICH COURSE TO STUDY AT MANCHESTER MET

Our courses will give you the specific skills to start your career with confidence, delivered by a team of experts.

MECHANICAL ENGINEERING
MEng (Hons)

Grasp the theory, build your technical skills – and give your engineering career the head start it deserves with our integrated Masters.

With this four-year integrated Masters course, you’ll go on a journey from fundamental engineering principles all the way through to live, practical projects that are informed by our active research and industrial partnerships. That way, by the time you graduate you’ll already have experience of the latest engineering challenges faced by industry and society.

You’ll start off by exploring the fundamental theories of engineering science and applicable mathematics, as well as learning practical and project skills. Then, through the study of solid mechanics, dynamics, thermodynamics and fluid mechanics, you’ll begin to develop your scientific and analytical skills. Throughout your studies, you’ll have the chance to get involved with projects rooted in our research with potential employers and research teams – giving you valuable experience for your career development.

As you progress, you’ll take on multidisciplinary project work, adopting one of several specialist roles – just like you would in the workplace. So, by the time you tackle your final-year group engineering project, you’ll be well equipped to design, develop, evaluate and present a specialist engineering solution to a significant, current problem.

FEATURES AND BENEFITS
• Accreditation by the Institution of Engineering and Technology may be awarded to the new MEng programmes subject to confirmation of the date the first graduates will emerge and subject to completion of a satisfactory review by the IET following the emergence of the first graduates.
• You can take a five-year route that includes spending a year on industry placement.
• This course shares a common first and second year with our BEng degrees in Mechanical Engineering and a common first year with our MEng and BEng degrees in Electrical and Electronic Engineering, so you may be able to transfer between courses.
• Most units use real case studies from the world of engineering. Every year, the School of Engineering invites industrial and academic colleagues to set live projects that challenge our students to devise innovative solutions to current problems. You’ll get feedback and advice directly from industrialists – giving you the chance to find out exactly what it takes to impress a potential future employer.
• Showcase your engineering and design skills in extra-curricular group projects like the Formula Student racing car competition or the Engineering For People Design Challenge.

Units typically include (this list is indicative and may change):

YEAR 1
• Electrical and Electrical Science
• Engineering Design and Practice
• Engineering Mechanics
• Mathematical Methods 1

YEAR 2
• Mathematical Methods 2
• Professional Design and Practice
• Solid Mechanics and Dynamics
• Thermodynamics and Fluid Mechanics

THE LATEST INFORMATION ABOUT OUR COURSES, INCLUDING THE MOST UP-TO-DATE LIST OF UNITS, CAN BE FOUND ONLINE AT MMU.AC.UK/COURSES
MY FINAL-YEAR PROJECT INVESTIGATED THE OPTIMISATION OF MATERIALS FOR 3D PRINTING OF MEDICAL MODELS. IT WAS INSTRUMENTAL IN GETTING A PLACE ON A GRADUATE SCHEME WITH RENISHAW, ONE OF THE WORLD’S LEADING ENGINEERING AND SCIENTIFIC TECHNOLOGY COMPANIES.

CALLUM WILLIAMS-YORK
BEng (Hons) Mechanical Engineering

YEAR 3
- Individual Engineering Project
- Mechanical Engineering Design

Option units:
- Automotive Engineering
- Engineering Management
- Heat Transfer and Fluid Mechanics
- Stress, Structures and Engineering Dynamics

FINAL YEAR
- Live multidisciplinary group project
- Optional units around Industry 4.0 and emerging technologies
ELECTRICAL AND ELECTRONIC ENGINEERING MEng (Hons)

By developing and harnessing advanced technology, engineers drive global progress. On this advanced degree, you’ll discover the skillset to drive your own progress.

This integrated Masters will set you on the path to an exciting career in the rapidly evolving world of electrical and electronic engineering.

You’ll start off by getting a solid introduction to key engineering principles, before specialising with subjects like electrical energy systems, control and automation and electronic systems design. You’ll also learn to use advanced engineering software as you develop your analytical skills and work on more cutting-edge topics.

Lots of your learning will take place through projects, reflecting the multidisciplinary world of work. In these projects, set by academic colleagues and industry contacts, you’ll learn what it takes to come up with creative solutions to current engineering problems. You’ll get feedback and advice directly from industry insiders, giving you the chance to find out exactly what it takes to impress a potential future employer.

Accreditation by the Institution of Engineering and Technology may be awarded to the new MEng programmes subject to confirmation of the date the first graduates will emerge and subject to completion of a satisfactory review by the IET following the emergence of the first graduates.

FEATURES AND BENEFITS

• You can take a five-year route that includes spending your third year on industry placement.
• All units use real challenges from the world of engineering. Every year, the School of Engineering invites industrial and academic colleagues to set live projects that challenge our students to devise innovative solutions to current problems.
• Showcase your engineering and design skills in extra-curricular group projects like the Formula Student racing car competition or the Engineering For People Design Challenge.
• Apply to become a STEM Ambassador, which is an excellent way to develop your communication skills. We’ll give you full training to help you share your enthusiasm for engineering, design and technology in schools and at public events.
• You may be invited to publish the results of your individual and group work in the School of Engineering Student Society’s peer-reviewed journal and to present your final project work at the School’s degree show.

• Get fully trained on how to use our workshops, laboratories and specialist engineering software.
• This course includes the same units during the first and second year as our BEng degree in Electrical and Electronic Engineering, and the same first-year units as our MEng and BEng degrees in Mechanical Engineering, so you may be able to transfer between courses.

Units typically include (this list is indicative and may change):

YEAR 1

• Electrical and Electronic Science
• Engineering Design and Practice
• Engineering Mechanics
• Mathematical Methods 1

YEAR 2

• Electrical Systems
• Electronic Systems
• Mathematical Methods 2
• Professional Design and Practice

YEAR 3

Core units:
• Electronic Engineering Design
• Individual Engineering Project

Option units:
• Control and Automation
• Electronic Systems Design
• Engineering Management
• Power Generation and Distribution

FINAL YEAR

• Live multidisciplinary group project
• Optional units around Industry 4.0 and emerging technologies
“I HAVE ACCESS TO THE LABS WHERE I CAN GO AND STUDY AT ANY TIME. I ALSO HAVE ACCESS TO COMPUTER STATIONS IN VARIOUS LOCATIONS ACROSS THE UNIVERSITY, ALLOWING ME TO COMPLETE MY WORK USING THE LATEST SOFTWARE.”

SAMUEL TRASMUNDI
MEng (Hons)
Electrical and Electronic Engineering
ELECTRICAL AND ELECTRONIC ENGINEERING BEng (Hons)

Turn your engineering ambitions into a reality with a degree that will jumpstart your potential.

Our undergraduate BEng programme will provide you with the specialist knowledge and expertise required for a professional career in electrical and electronic engineering. With project-based learning in all years, including live industry-led projects, you’ll develop the transferable skills and awareness so highly prized by industry.

You’ll continue to learn through project-based activity, alongside in-depth study of specialist technical topics, such as electrical energy systems, control engineering and electronic systems design. For your all-important final-year project, you’ll research, design, plan and manage a specialist technology solution to a current engineering problem. And, to prepare you for the kinds of challenge you’ll face in the world of work, you’ll get a chance to present and defend your ideas to academic and industry specialists.

You can choose to study the course over three years, or take an extra year for a placement in industry. Whichever route you take, you’ll have all the skills and understanding you need to get started on your engineering career.

This degree is accredited by the Institution of Engineering and Technology on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.

FEATURES AND BENEFITS

• All units use real challenges from the world of engineering. Every year, the School of Engineering invites industrial and academic colleagues to set live projects that challenge our students to devise innovative solutions to current problems. You’ll get feedback and advice directly from industry insiders – giving you the chance to find out exactly what it takes to impress a potential future employer.

• You may be invited to publish the results of your individual and group work in the School of Engineering Student Society’s peer-reviewed journal and to present your final project work at the School’s degree show.

• Along with your timetabled sessions, our drop-in workshops and laboratories means you can adapt your schedule to your needs.

Units typically include (this list is indicative and may change):

YEAR 1

• Electrical and Electronic Science
• Engineering Design and Practice
• Engineering Mechanics
• Mathematical Methods 1

YEAR 2

• Electrical Systems
• Electronic Systems
• Mathematical Methods 2
• Professional Design and Practice

YEAR 3

Core units:
• Electronic Engineering Design
• Individual Engineering Project

Option units:
• Communication Systems and Networks
• Control and Automation
• Digital Signal and Image Processing
• Electronic Systems Design
• Engineering Management
• Power Generation and Distribution

FINAL YEAR

Core units:
• Group Engineering Project
• Smart Technologies for Power Management

Option units:
• Computational Mechanics
• Embedded Systems and Systems on a Chip
• Industrial Communication Systems
• Sensing and Imaging
• Sustainable Energy Systems
MECHANICAL ENGINEERING
BEng (Hons)

Tackle society’s latest engineering challenges head-on by building the skills you need to become a professional problem-solver

This degree provides a strong theoretical and practical foundation for those looking to open the door to one of the many career opportunities available to mechanical engineers. With project-based learning throughout, you’ll develop transferable skills and the multidisciplinary awareness that are highly valued in industry.

In your first year, you’ll get a grounding in the fundamental principles of applied mathematics and engineering sciences. But you’ll also get straight into the practical side of things, with a design-and-build challenge.

You’ll continue building theoretical knowledge along with practical application throughout the course. You’ll develop scientific and analytical skills as you study specialisms like solid and fluid mechanics, dynamics, thermodynamics and engineering mathematics. And with project work that’s rooted in our research and shaped around our industry partners, you’ll learn how to apply those skills to real-world engineering.

This degree is accredited by the Institution of Engineering and Technology on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.

FEATURES AND BENEFITS

• This course includes the same units as our MEng degree in Mechanical Engineering in first and second year, and the same first-year units as our MEng and BEng degrees in Electrical and Electronic Engineering, so you may be able to transfer between courses.

• You can take a four-year route that includes spending your third year on industry placement.

• All units use real challenges from the world of engineering. Every year, the School of Engineering invites industrial and academic colleagues to set live projects that challenge our students to devise innovative solutions to current problems. You’ll get feedback and advice directly from industry insiders – giving you the chance to find out exactly what it takes to impress a potential future employer.

• Showcase your engineering and design skills in extra-curricular group projects like the Formula Student racing car competition or the Engineering For People Design Challenge.

Units typically include (this list is indicative and may change):

YEAR 1

• Electrical and Electronic Science
• Engineering Design and Practice
• Engineering Mechanics
• Mathematical Methods 1

YEAR 2

• Mathematical Methods 2
• Professional Design and Practice
• Solid Mechanics and Dynamics
• Thermodynamics and Fluid Mechanics

YEAR 3

Core units:
• Individual Engineering Project
• Mechanical Engineering Design

Option units:
• Automotive Engineering
• Engineering Management
• Heat Transfer and Fluid Mechanics
• Stress, Structures and Engineering Dynamics

THE LATEST INFORMATION ABOUT OUR COURSES, INCLUDING THE MOST UP-TO-DATE LIST OF UNITS, CAN BE FOUND ONLINE AT MMU.AC.UK/COURSES
We’ve designed this course through our links with leading engineering and technology companies, making it a programme packed with industry-relevant content – crucial for those looking to move into this rapidly changing field. That means that by the time you graduate you’ll be ready to follow in the footsteps of students who’ve gone on to work in areas as diverse as manufacturing and aircraft design, naval engineering and the nuclear fuel industry.

You’ll get straight into the theory as you learn the fundamentals of computer and network technology, programming and basic electronics. You’ll also hit the ground running on the practical side, with project work developing and managing standalone and networked computer systems.

As you specialise further you’ll develop practical and analytical skills and study applications and systems programming, central processing units, memory and interfacing sub-systems and communications standards and protocols. You’ll also learn everything you need to know to sit the CISCO CCNA Routing and Switching exam, helping you build a strong foundation for your career ahead.

By the time you get to your final-year, you’ll work on the areas informed by our active research and industry partnerships – with study and projects focused on the latest developments in advanced computer and network technology.

This degree is accredited by the Institution of Engineering and Technology on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.

FEATURES AND BENEFITS
• Every year, the School of Engineering invites industry and academic colleagues to set live projects that challenge our students to devise innovative solutions to current problems. You’ll get feedback and advice directly from industry insiders – giving you the chance to find out exactly what it takes to impress a potential future employer.
• You can take a four-year route that includes spending your third year on industrial placement.
• Showcase your engineering and design skills in extra-curricular group projects like the Formula Student racing car competition or the Engineering For People Design Challenge.
• Apply to become a STEM Ambassador, which is an excellent way to develop your communication skills. We’ll give you full training to help you share your enthusiasm for engineering, design and technology in schools and at public events.
• In your final year, you’ll present your work at the School’s degree show and in an online yearbook, which potential employers review.
• You’ll gain the knowledge and skills required to take the CISCO CCNA Routing and Switching exam.

Units typically include (this list is indicative and may change):

YEAR 1
• Algorithm Design and Programming
• Computer Systems and Digital Logic
• Fundamentals of Communication and Networks
• Engineering Design and Practice

YEAR 2
• Sensor Technologies and Data Analytics
• Network Design and Implementation
• Computer Organisation and Server Technology
• Professional Design and Practice

YEAR 3
• Advanced Communications and Networks
• Advanced Computer and Network Systems
• Distributed Computing and Computer Security
• Individual Engineering Project
You’ll set out on a three-year journey to learn the skills, techniques and knowledge you’ll need for a future in the design engineering industry. Developed through our close links with leading engineering and design companies, this degree offers the chance to work on live design projects. As such, you’ll gain valuable transferable skills and workplace-relevant experience while you study.

You’ll start by establishing a firm foundation in the principles of design and technology, looking at materials, manufacture and the crucial interrelationship between products, their users and their environment. In our specialist workshops you’ll also start to get to grips with various design challenges and projects.

As you progress and delve deeper into the subject, you’ll develop analytical and practical skills — for example, exploring the use of materials and manufacturing processes, design methods, environmental considerations and using digital CAD techniques to enhance communication. You’ll also take on a specialist role in a multi-disciplinary group project.

With a chance to demonstrate your acquired skills and creative flair in a final-year design project, you’ll graduate with skills and knowledge that will stand you in good stead for your future career.

This degree is accredited by the Institution of Engineering and Technology on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.

**FEATURES AND BENEFITS**
- In your final year, you’ll present your work at the School’s degree show which will be attended by industry representatives.
- You can choose a four-year route, including a third-year industry placement.
- Every year, the School of Engineering invites industry and academic colleagues to set new, live projects that challenge our students to devise innovative solutions to current problems. You’ll get feedback and advice directly from industry insiders and have the chance to find out exactly what it takes to impress a potential future employer.
- Showcase your engineering and design skills in extra-curricular group projects like the Formula Student racing car competition or the Engineering For People Design Challenge.
- Apply to become a STEM Ambassador, which is an excellent way to develop your communication skills. We’ll give you full training to help you share your enthusiasm for engineering, design and technology in schools and at public events.
- Along with your timetabled sessions, our drop-in workshops and laboratories means you can adapt your schedule to your needs.
- This course shares a common first year with our BSc in Product Design and Technology, so you may be able to transfer between courses.

Units typically include (this list is indicative and may change):

**YEAR 1**
- Design Skills
- Engineering Design and Practice
- Engineering Materials and Manufacture
- User Centred Design

**YEAR 2**
- Applied Engineering Principles
- Design Communication
- Environmental Design
- Professional Design and Practice

**YEAR 3**
- Advanced Design Communication
- Design Engineering
- Engineering Management
- Individual Engineering Project
“MY FAVOURITE PROJECT WAS THE HANDHELD DEVICE PROJECT, WHERE WE HAD TO ANALYSE AND EVALUATE OUR CHOSEN HANDHELD PRODUCT AND MAKE NEW IMPROVEMENTS ON THE ORIGINAL DESIGN IN ORDER TO MAKE IT MORE PLEASING FOR CUSTOMERS TO BUY. IT WAS AN EXCITING PROJECT TO WORK ON BECAUSE IT GAVE ME THE OPPORTUNITY TO SHOW MY INNOVATIVE AND CREATIVE SKILLS AND APPLY IT TO MY DRAWINGS AND SKETCHES FOR THE NEW AND IMPROVED DESIGN FOR THE PRODUCT I CHOSE.”

CHARLES TANYAG
BSc (Hons)
Product Design and Technology
Right from the start, this course is all about developing your creativity and problem-solving skills. Even the introduction is a team-based design-and-build challenge – reflecting the kind of project-based, hands-on approach to learning you’ll experience throughout your time with us.

It’s a degree that provides the specialist knowledge and expertise required for a career in product design, introducing you to industry-relevant methodologies, materials and production methods. You’ll also look at the influence on design of history, culture, markets, materials and lifestyles. And in our specialist laboratories, you’ll get to grips with some of the latest technologies such as 3D printing and rapid prototyping.

More generally, you’ll learn to look at the world around you through the eyes of a designer, as you establish the fundamentals of design and technology, together with the relationship products have with their users and their environment.

In your final year you’ll be ready to put these skills into practice in a new product design challenge and an individual project. You’ll then have the chance to showcase your work in front of industry representatives at the School’s degree show as you look to kick-start your career in this challenging and rewarding field.

This degree is accredited by the Institution of Engineering and Technology on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.

**FEATURES AND BENEFITS**
- Every year, the School of Engineering invites industry and academic colleagues to set new, live projects that challenge our students to devise innovative solutions to current problems. You’ll get feedback and advice directly from industry insiders and have the chance to find out exactly what it takes to impress a potential future employer.
- You’ll get the opportunity to showcase your engineering and design skills in extra-curricular group projects like the Formula Student racing car competition or the Engineering For People Design Challenge.
- Along with your timetabled sessions, our drop-in workshops and laboratories means you can adapt your schedule to your needs.

Units typically include (this list is indicative and may change):

**YEAR 1**
- Design Skills
- Engineering Design and Practice
- Engineering Materials and Manufacture
- User Centred Design

**YEAR 2**
- Applied Engineering Principles
- Design Communication
- Environmental Design
- Professional Design and Practice

**YEAR 3**
- Advanced Design Communication
- Engineering Management
- Individual Engineering Project
- Product Design
We are proud to be an academic partner of the Institution of Engineering and Technology (IET), who accredit our BEng and BSc (Hons) degrees on behalf of the Engineering Council. This means that all our students will graduate with the necessary education requirements to begin working towards professional registration as an Incorporated Engineering (IEng) or Chartered Engineer (CEng) when they start working in the engineering industry.
FOUNDATION YEAR

If you have the potential to study at degree level, but you don’t meet the entry requirements, a foundation year can bridge the gap – laying the groundwork for entry in to Year 1.

WHAT YOU STUDY
The units you’ll study are designed to build your confidence and bring you up to speed for the rest of your chosen degree. So, as well as the Academic Skills for Higher Education unit, which helps develop your study skills for learning at the degree-level, you’ll also do three units based around your subject.

The following courses are available with a Foundation Year:

- BEng (Hons) Mechanical Engineering
  UCAS code: H308
- BEng (Hons) Electrical and Electronic Engineering
  UCAS code: H608
- BSc (Hons) Design Engineering
  UCAS code: HJ3Y

WHAT YOU NEED TO APPLY
To apply for a degree with a Foundation Year, you’ll typically need 72 – 80 UCAS points – earned from full A-levels (not AS) or equivalent qualifications, like a BTEC – plus at least a Grade 3 or D in GCSE English and Maths. But every course is different – some may have higher entry requirements and we may be able to consider equivalent qualifications for others, so it’s vital that you check our online prospectus before you apply. If you have other qualifications that aren’t on the UCAS tariff, we may still consider them – just check at mmu.ac.uk/course-enquiry

If English is not your first language, you will need an English language qualification, like IELTS 5.5. Then, you can take our Foundation Year International Route, which includes a unit that offers English language, study skills and tutor support. You can find out more about support and fees for international students at mmu.ac.uk/international

FOUNDATION YEAR FINANCES
Foundation Year students are treated exactly the same as students on BA (Hons) and BSc (Hons) degrees – so you can apply for a tuition fee loan (and a maintenance loan if you’re from the UK) for the full duration of your course, including your Foundation Year. You can find out more about student finance, including details on scholarships and bursaries, at mmu.ac.uk/money-matters – and you can find funding information at gov.uk/student-finance

APPLYING FOR A FOUNDATION YEAR
If you choose the Foundation Year route, you apply for a four-year course (or five with a placement year). Then once you have passed the Foundation Year you will progress directly into Year 1 of your degree course.

Like all our full-time undergraduate degrees, you’ll need to apply through UCAS. Degrees with a Foundation Year have their own UCAS codes, which you can find on the UCAS website, or by searching at mmu.ac.uk/foundation
WHAT TO EXPECT DURING YOUR STUDIES

Get ready for university life

Making the most of your university is all about striking the right balance. With plenty of support on offer, we’ll help you find it.

Life at university is a mixture of classes, lectures, tutor meetings, group work and independent study – not to mention your social life or hobbies. There’s lots to juggle. But we’re ready to help you make the most of your time with us.

MANAGING YOUR TIME

No matter what you’re studying, time management is one of the most important skills you’ll need (it will come in handy after you graduate too). While lectures, classes and tutorials are set in your timetable, the rest is up to you. You’ll need to make time for studying, going to the library and preparing for assessments – with deadlines to hit and schedules to keep. And, when it comes to group work, it’s up to everyone to get organised and plan time to work together.

MODES OF STUDY

We know that everyone learns in different ways, so we use a variety of teaching methods, including formal lectures, practical sessions, presentations and group activity. All our approaches are supported by our online ‘Moodle’ system, which lets you submit assignments, see your grades, receive feedback and access teaching materials, lecture notes and other resources. Moodle also gives you access to your own personalised timetable so you know where you’re supposed to be and when.

You may find that this is a big shift from sixth form and A-level study – the emphasis at University is on your management of your working week, although we are here to help and guide you.

ASSESSMENT AND FEEDBACK

A big part of developing your skills is assessing your progress. So we use a range of tools to do that, including examinations and continuous assessment:

- Coursework assignments
- In-class tests
- Oral presentations
- Reports on case studies
- Group work
- Online tests.
“IF YOU HAVE A CHANCE TO STUDY HERE - TAKE IT. THERE IS A WIDE RANGE OF SUPPORT AND OPPORTUNITIES AVAILABLE WHETHER IT IS LOOKING FOR A JOB, A VOLUNTEERING OPPORTUNITY OR EVEN FINDING A BOOK IN THE LIBRARY! THE OPPORTUNITIES ARE AMAZING.”

EDIVALDO COSTA
BEng (Hons)
Electrical and Electronic Engineering
We recognise that some students don’t have room in their lives for full-time study. That’s why we offer part-time options for two of our most popular degrees:

- BEng (Hons) Mechanical Engineering
- BEng (Hons) Electrical and Electronic Engineering

Part-time undergraduates who are already working in the engineering sector make a special contribution to our School and have distinct talents and insight that we welcome.

Around a quarter of our undergraduate students on these courses study part-time. Usually, you’ll come in for classes one day a week, though that depends on the level and year of your studies. You’ll spend a quarter of your course time in timetabled classes, with the remaining time allocated to self-directed study and assessment. The duration of the part-time route is four years.

While you’re with us, you’ll receive all the same support as a full-time student, from teaching and resources, to laboratories and personal tutoring.

We know that asking your employer for time off to study can be daunting. But we’re happy to provide any information or details they need to make it happen. If you’d like an informal chat about studying part-time, or need more detailed information from us to be able to approach your employer, contact Dr Kirstie Andrews at k.andrews@mmu.ac.uk
Learning Places and Study Spaces
The setting for your studies

From award-winning architecture and a five-floor 24-hour library, to seminar rooms, study zones and computer suites, on our campus we’ve created an environment where academic excellence thrives.

The technology, the facilities, the buildings – it’s all designed with students like you in mind. We’ve invested in a campus fit for your ambitions. The result is a wide array of fantastic places for your studies, creating the ideal setting for you to realise your potential.

We’ve invested millions of pounds to improve our facilities. So in addition to our £4m heavy engineering workshop for research and teaching in surface engineering, materials and dynamics, we have the Manchester Fuel Cell Innovation Centre. There, our experts develop and test commercial fuel cell designs for local businesses and the Greater Manchester Hydrogen Partnership. We’re also home to Print City, a 3D print centre of excellence that’s equipped with a large range of specialist 3D printers, allowing us to push the boundaries of 3D design and additive manufacturing.

Our workshops house an impressive range of specialist equipment, including water jet cutters, rapid prototyping machines and a thermal millimetre wave imager. National Instruments hardware and software are used extensively throughout all years of our courses.
“I did a sandwich year placement at Bosch which was very hands-on and practical. I was working as part of a team carrying out rigorous testing of lawn and garden products. I had a fantastic year and it really increased my awareness of how industry works and how that relates back to my studies.”

FREIDA KUMAR
BEng (Hons) Mechanical Engineering
KICK-START YOUR FUTURE CAREER
Equipped for the world of work

Professionally-focused courses, designed with (and for) employers. Staff with real industry experience. Dedicated support to help you build vital experience. It all adds up to get you working.

PLACEMENTS
All of our degrees offer the chance to spend a year getting a taste of professional life. If you choose to go down this route, your degree will take one year longer, with the third year spent working in industry. These optional placements not only give you the opportunity to develop your core skills and learn about how a business really operates in your industry, but also shows employers that you’re ready to get to work.

We offer a wide range of services to help you find the right placement, including employer presentations, advice and placement fairs. But it’s also up to you – the more proactive you are about applying for placement.

STUDY ABROAD
Many of our courses offer the opportunity to spend up to a year overseas, studying with one of our partner institutions across Europe, or beyond. Go abroad in the third year of your degree, and you’ll not only learn about other cultures, improve your language skills and discover more about yourself – you’ll also boost your career prospects.

Having first-hand knowledge of another country’s cultures and traditions can take you far in a range of careers. And, by going abroad you’ll also demonstrate the kind of independent spirit and adaptability that many employers value.

WORKING ABROAD
Gaining work experience with an international flavour offers a double benefit. While you’ll learn valuable professional skills in a real-world workplace, you’ll also experience different cultures, ways of working and new perspectives. Whether it’s a summer exchange, holiday internship or year-long international placement, global experience can make a world of difference to your career prospects.

A CITY OF OPPORTUNITIES
Manchester is the engine room of the Northern Powerhouse and the birthplace of the UK nuclear power industry, with a rich history of invention and innovation. It was here that Dalton devised atomic theory, Rutherford first split the atom and Charles Rolls met Henry Royce. This decade has seen the city become a world leader in materials research with the first isolation of graphene in 2010. This puts us in the perfect place to offer an education rooted in the real world – with relevant skills, useful experience and valuable connections to support your career ambitions.
Among our staff, you’ll find lecturers, librarians, technicians and student support officers – and more. The one thing they all share is a dedication to providing the best possible learning experience.

**TEACHING EXPERTISE**
Our courses are designed, led and taught by some of the UK’s leading academic voices, so you’ll be learning directly from passionate, knowledgeable individuals. Our academic staff are research-active, working at the forefront of their specialist fields, and are there to give you the support and guidance you need throughout your studies. Many also have industry experience with well-established links and contacts in their respective sector, ensuring your education and training are relevant to your future career.

**DEDICATED SUPPORT**
We’ll make sure you’re fully trained to use our state-of-the-art workshops, laboratories and specialist engineering software, so you can use it whenever you need to. Along with timetabled classes and sessions, we have a drop-in system for some workshops and laboratories so you can use them throughout the week to suit your needs and schedule. And, whenever you need advice or support, our team of highly trained technical and academic staff will always be on hand.

**RESEARCH**
Our areas of research include imaging and intelligent systems, digital signal processing and defence security applications, power renewables, transport and sustainability, bioengineering, modelling and simulation, design, materials and manufacture, automotive engineering and vehicle dynamics.

During our integrated Masters programmes, you’ll have the chance to get involved with projects rooted in our research with potential employers and research teams – giving you valuable experience for your career development.

**REAL-WORLD IMPACT**
Thanks to our strong links to the engineering industry, our students work on live industry projects, which involve solving current, real-world engineering challenges – a great preparation for your professional career ahead. You can also get involved in extra projects like Formula Student, a competition that challenges student teams from around the world to design and build a racing car, then compete at Silverstone.
“There’s a wide range of study areas you might specialise in within the fields of electronic engineering and computer network technology, such as renewable power engineering or micro-electronics. Our pioneering researchers are working on image-based screening systems to help increase security and public safety.”

MARGARET FOWLER
Head of Division of Electrical and Electronic Engineering
INTERNATIONAL STUDENTS

We’re proud to be part of a diverse community, with students from over 120 countries around the world choosing to study at Manchester Met. Come to Manchester and you’ll be part of our world.

MEET US
Our international team travels around the world to tell students like you what it’s like to live and study here. We also offer virtual events you can attend online. Find out more at mmu.ac.uk/international

SUPPORT ON CAMPUS
From the day you arrive to the day you graduate, we’re here to help. We run events to welcome you to Manchester, and we offer learning support, counselling services and career advice. If you need help with your visa, our Immigration and Welfare team can give you advice.

ENGLISH LANGUAGE SKILLS
If English isn’t your first language, you’ll need to reach IELTS 6.0 (check mmu.ac.uk/courses to see what your course requires). If you need help once you arrive, we run workshops and courses to develop both your skills and your confidence – find out more at mmu.ac.uk/englishlanguagecourses

APPLYING TO JOIN US
To study with us, you’ll need to apply through UCAS, atucas.com

You can see how your qualifications fit with our courses at mmu.ac.uk/international/your-country

Working with a local adviser can be a great way to get information about the University and help with your application and visa. To find out if we have an adviser in your country, please visit our website.

You can find everything you need to know – from course requirements to financial details to information about life in Manchester – at mmu.ac.uk/international
“Studying at Manchester Metropolitan University has given me the opportunity to experience student life in a metropolitan city and immerse myself in a completely different culture.”

WAN LING LEE
BA (Hons) Business and Spanish, Malaysia

YOUR ARRIVAL
We want to make sure your arrival at Manchester Met goes as smoothly as possible so we run a free airport pick-up scheme, which is available all year round. All new international students arriving at Manchester Airport when beginning their studies are eligible, but you may need to book depending on when you arrive.

Every September we run welcome events for international students, designed to help you meet other students and settle in at the University.

HELP WHEN YOU NEED IT
The University’s student services team offers international students career advice, counselling and learning support. The Immigration and Welfare team provide confidential advice and guidance as well as regular workshops to help with renewing your visa.

ENGLISH LANGUAGE SUPPORT
We provide free English language support workshops. These will help improve your language skills, your confidence in classes and seminars, and help you achieve better results in projects and exams.

INTERNATIONAL STUDENT TUITION FEES AND SCHOLARSHIPS
Our international fees are competitive and the cost of living in the region is much lower than London and many other world cities. Tuition fees remain the same for each year of your degree and the University offers competitive scholarships for international students.

For up-to-date information, please visit our website mmu.ac.uk/international
“I INVOLVE MY STUDENTS IN THE LEARNING PROCESS AND ENCOURAGE THEM TO DEBATE AND TO LEARN FROM ONE ANOTHER. THE ADVANTAGE OF RESEARCH INFORMED TEACHING IS THAT NOT ONLY WILL STUDENTS HAVE ACCESS TO WHAT ACADEMICS ARE DOING, BUT ALSO WHAT OUR PARTNERS AROUND THE WORLD ARE ENGAGING IN AS WELL.”

WDR BAMIDELE ADEBISI
Reader, Communication Systems
<table>
<thead>
<tr>
<th>Degree title</th>
<th>Years of study</th>
<th>UCAS code</th>
<th>Typical entry requirements</th>
<th>Additional entry requirements</th>
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<tbody>
<tr>
<td>MEng (Hons) Mechanical Engineering</td>
<td>4 full-time</td>
<td>2D86</td>
<td>112-120 BBC-BBB DMM</td>
<td>A-level grade C in mathematics or further mathematics, plus one A-level grade C in a science, engineering or technology subject (can include IT). GCSE grade C or 4 in English language, mathematics and science</td>
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<td>MEng (Hons) Mechanical Engineering with placement year</td>
<td>5 full-time</td>
<td>2D86</td>
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<td>BEng (Hons) Mechanical Engineering</td>
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<td>104-112 BCC-BBC DMM</td>
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<td>BEng (Hons) Mechanical Engineering with placement year</td>
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<td>H300</td>
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<td>MEng (Hons) Electrical and Electronic Engineering</td>
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<td>2W69</td>
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<tr>
<td>MEng (Hons) Electrical and Electronic Engineering with placement year</td>
<td>5 full-time</td>
<td>2W69</td>
<td>112-120 BBC-BBB DMM</td>
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<tr>
<td>BEng (Hons) Electrical and Electronic Engineering</td>
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<td>H600</td>
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<tr>
<td>BEng (Hons) Electrical and Electronic Engineering with placement year</td>
<td>4 full-time</td>
<td>H600</td>
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<td>BSc (Hons) Computer and Network Technology</td>
<td>3 full-time</td>
<td>G430</td>
<td>104-112 BCC-BBC DMM</td>
<td>A-level or equivalent to include at least one of mathematics, computing or IT, or a science or technology subject. GCSE grade C or 4 in English language, mathematics and science</td>
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<tr>
<td>BSc (Hons) Computer and Network Technology with placement year</td>
<td>4 full-time</td>
<td>G430</td>
<td>104-112 BCC-BBC DMM</td>
<td>As above</td>
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<tr>
<td>BSc (Hons) Product Design and Technology</td>
<td>3 full-time</td>
<td>WJ29</td>
<td>104-112 BCC-BBC DMM</td>
<td>A-level or equivalent to include at least one of mathematics, science, technology or a relevant design subject. GCSE grade C or 4 in English language, mathematics and science</td>
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<tr>
<td>BSc (Hons) Product Design and Technology with placement year</td>
<td>4 full-time</td>
<td>WJ29</td>
<td>104-112 BCC-BBC DMM</td>
<td>As above</td>
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<tr>
<td>BSc (Hons) Design Engineering</td>
<td>3 full-time</td>
<td>HJ3X</td>
<td>104-112 BCC-BBC DMM</td>
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<tr>
<td>BSc (Hons) Design Engineering with placement year</td>
<td>4 full-time</td>
<td>HJ3X</td>
<td>104-112 BCC-BBC DMM</td>
<td>As above</td>
</tr>
</tbody>
</table>
THE COUNTDOWN STARTS RIGHT NOW

Dates to note and deadlines to remember

JUNE
Pay us a visit – Open Day, 20 Jun. Book at mmu.ac.uk/openday

SEPTEMBER
Applications open – don’t wait. Go toucas.com

OCTOBER
See our campus – Open Days, 13 and 20 Oct. Book at mmu.ac.uk/openday

NOVEMBER
Last chance – Open Day, 24 Nov. Book at mmu.ac.uk/openday

SEPTEMBER – DECEMBER
Get personal – it’s time to craft your personal statement.

FEBRUARY – APRIL
By special invitation – department visits.

APRIL
Accommodation applications – time to get it sorted.

JANUARY
Initial UCAS deadline – to make sure you’re considered, apply by 15 Jan.

FEBRUARY
Money matters – applications open for finance at gov.uk/student-finance

MARCH
Offers – if you applied by 15 Jan, you’ll hear from us by 31 Mar.

2018

MAY
Finance deadline – it’s your last chance to apply at gov.uk/student-finance

AUGUST
Accommodation confirmed – we’ll send details by 31 Aug.

2019

MAY
Decision time – if you have an offer, it’s time to accept.

JULY – AUGUST
Results time – still looking? Check mmu.ac.uk/clearing

SEPTEMBER
Get started – welcome week begins 24 Sept.

FEBRUARY
Money matters – applications open for finance at gov.uk/student-finance

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Decision time – if you have an offer, it’s time to accept.

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Get started – welcome week begins 24 Sept.