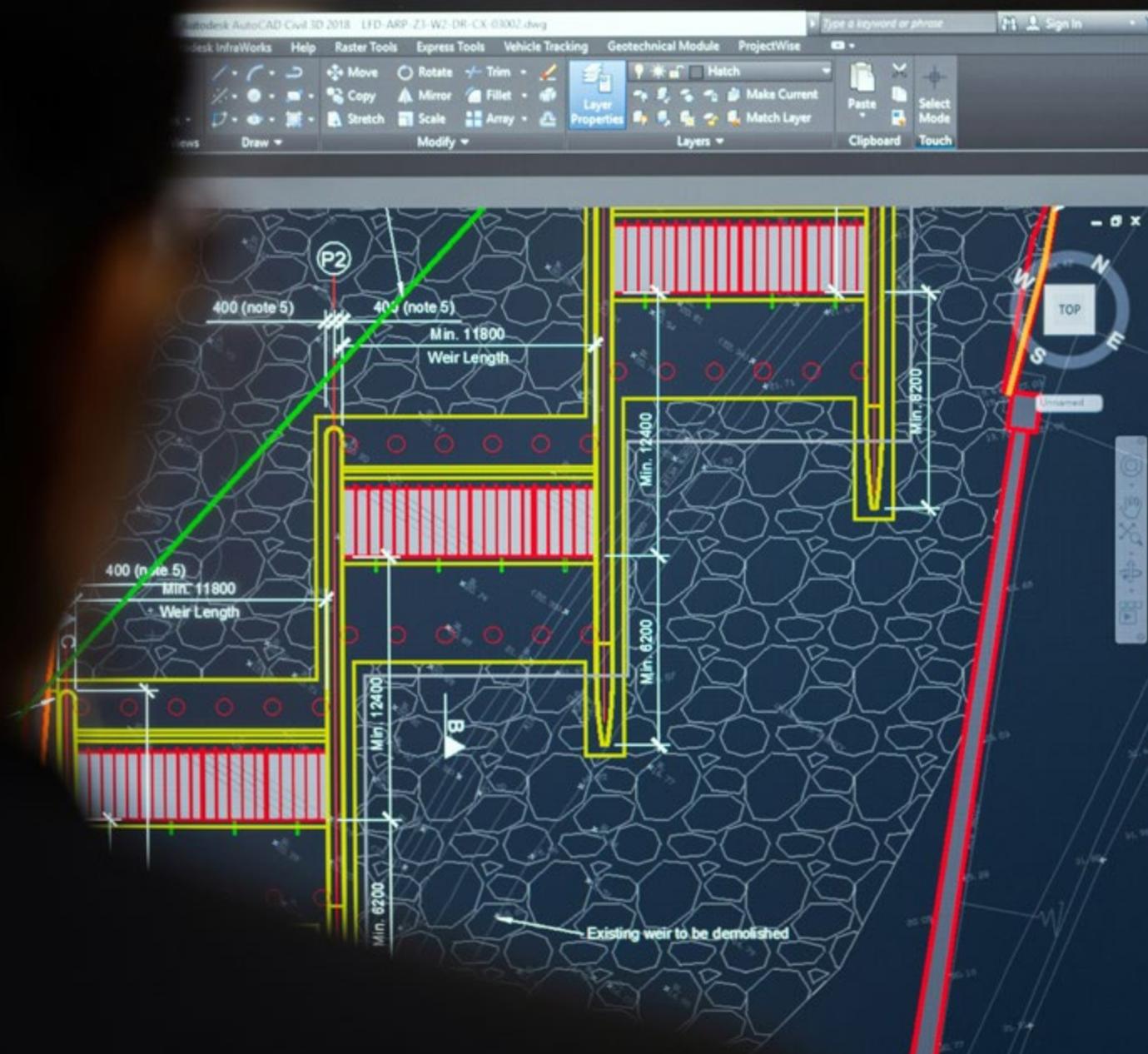


ENGINEERING




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The
Manchester
College®
be amazing

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5 Reasons to Study

Engineering at The Manchester College



Get career ready from day one

Our courses are designed with employability in mind, giving you real-world skills for roles in mechanical, electrical, and civil engineering, CAD design, and maintenance and more - all linked to Greater Manchester's innovative engineering sector.



Learn from industry experts

You'll be taught by experienced tutors who bring real engineering knowledge into the classroom, helping you understand what employers are looking for right now. Find out more about your tutors on our website: tmc.ac.uk/construction-engineering.



Experience engineering in action

Through work placements, employer-led projects, and visits to top employers, you'll build practical experience that looks great on your CV.



Discover what inspires you

Start with a solid engineering foundation, then specialise in areas that match your goals and interests as you progress - from industrial innovation to electronics.



Go beyond the classroom

Take part in enrichment activities, enterprise challenges and networking events that develop your confidence, leadership and problem-solving skills - all key for success in the engineering sector.



Job figures

There were approx. **51,810** employees working in the engineering sector in Greater Manchester in 2025. This is predicted to increase by **3%** by 2028.



Average earnings

The average wage in Greater Manchester is **£45,722** per annum (2024).



Replacement demand

Around **9,695** of the current workforce will be reaching retirement in the next 10 years, meaning those jobs will need replacing.

Types of jobs
Aerospace Engineer
Chemical Engineer
Civil Engineer
Electrical Engineer
Engineering Maintenance Technician
Mechanical Engineer
Rail Engineering Technician
Robotics Engineer
Structural Engineer
Telecoms Engineer

Skills needed
Communication
Customer service
Electrical engineering
Machinery
Maintenance engineering
Management
Mechanical engineering
Planning
Problem solving
Project management

Examples of GM Employers
Bakkavor
BAM
Brooks Automation
Hydrock
Johnson Controls
JW Lees
KraftHeinz
Milliken
ThermoFisher
Wates

Data sourced from Lightcast April 2025.

Careers information

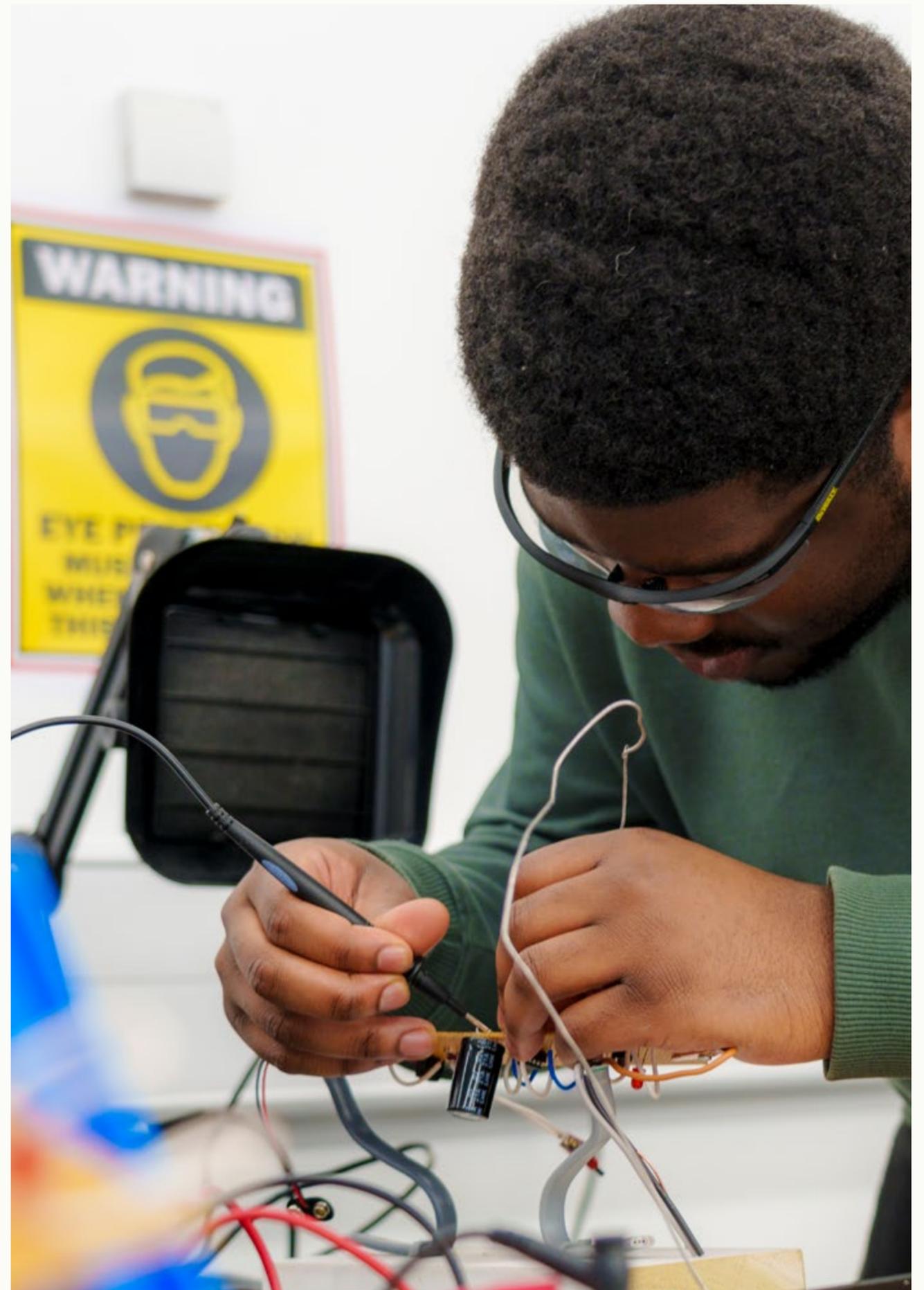


FIND OUT MORE HERE

I chose this course for quicker industry entry than A levels. I enjoy my placements, using Revit, AutoCAD, and drone surveying. The College offers great support. I aim to become an architect or design manager.



Sara
T Level in Design,
Surveying, and Planning



Where to find us

With excellent transport links, modern classrooms and vibrant social spaces, you can study Engineering courses at a number of campuses across Manchester.



Openshaw

We are investing £4m on creating a new 630m2 engineering workshop at Openshaw campus.

- Electrical / electronics lab
- Microcontroller equipment
- 3D CAD suites with 3D printing facilities
- Drones for surveying
- Mechanical workshop with:
 - Milling
 - Turning
 - Welding
 - CNC machinery



GET DIRECTIONS



Harpurhey

- 3D CAD suite
- Total station (surveying equipment)
- Drones for surveying
- Two libraries with dedicated study areas and quiet zones
- Refectory serving hot and cold food options
- Spacious social areas and large garden
- Discounted hair and beauty treatments at our salon.



GET DIRECTIONS



Wythenshawe

- Electrical installation workshop
- Drones for surveying
- Student-run restaurant
- Spacious library with IT access and study areas
- Starbucks coffee shop and on-site refectory
- Discounted hair and beauty treatments at our salon.



GET DIRECTIONS



Get career ready with us

We're here to help you achieve your goals and get career-ready. Our courses are designed with top employers to focus on in-demand skills.

From day one, you'll gain hands-on experience to build confidence. By the end, you'll have the qualifications, knowledge, and experience to stand out and take the next step in your career.



Building your employability

To get you career-ready, you'll take part in activities that boost your skills and understanding of the world of work. You'll be supported by a dedicated Employability Co-ordinator who will support you to develop the knowledge, skills and behaviours you'll need to thrive in the workplace.

Real-world experience that counts

As part of your course, you'll complete work experience with an employer. We'll help you find a placement where you can:

- **Shadow professionals** and see how the job is done day-to-day
- **Contribute to real projects** that develop your skills and strengthen your CV
- **Grow in confidence** as you put learning into action.

Many of our students make such a strong impression that they even secure part-time or full-time jobs with their placement provider!

We work with leading employers to deliver our placements, including:



Discover where engineering can take you

We'll introduce you to a wide range of career options in the engineering sector through:

- Q&A sessions with people employed in the industry
- Guest masterclasses, lectures and workshops led by experts in their field
- Trade fairs to understand career routes and hidden jobs
- 'Careers Days' including taking part in live demonstrations with industry experts
- 'Day in the life' events to understand different career paths and job roles
- Regional and national trips to construction sites.



This will help you decide which path to take after your course - whether that's progressing to degree-level study with our higher education partner UCEN Manchester, starting an apprenticeship, going straight into employment, or pursuing a specialist technical role.



Courses

We offer qualifications from Level 1 to Level 3, including T Levels. If you haven't already obtained a Grade 4 GCSE in English or maths, you'll study to work towards achieving this qualification.



T Level Building Services Engineering for Construction (Electrical Installation) **T**

Level 3 | Openshaw | 2 year

Our T Level in Building Services Engineering (Electrical Installation) prepares you for a career in electrical installation and maintenance. Over two years, you'll explore construction and building engineering principles, electrical science, and wiring systems. Gain real experience and confidence through hands-on learning and an industry placement.

T Level Design and Development for Engineering and Manufacturing (Electrical and Electronic Engineering) **T**

Level 3 | Openshaw | 2 year

This pathway develops your understanding of electrical systems design, electronic circuits, and automation. You'll study materials, engineering science, and maths, alongside business and commercial awareness. Practical projects and an industry placement let you apply your knowledge, preparing you for a career as a design engineer in electrical and electronic engineering sectors.

T Level Design and Development for Engineering and Manufacturing (Mechanical Engineering) **T**

Level 3 | Openshaw and Wythenshawe | 2 year

Focus on mechanical systems, manufacturing methods, and computer-aided manufacturing (CAM). You'll deepen your knowledge of materials, mechanical principles, and essential science and maths. The course blends theory with practical projects and an industry placement, equipping you with the skills needed for a career in mechanical design engineering and manufacturing industries.

T Level Design, Surveying and Planning (Building Services Design Structure) **T**

Level 3 | Openshaw | 2 years

This two-year T Level offers a specialist route into the construction and built environment sector, focusing on building services design and structural planning. You'll gain a mix of classroom-based theory and industry placements, working with employers to understand real-world practices. Topics include sustainability, design processes, project management, and digital technologies used in construction. Equivalent to three A Levels, this qualification provides a direct pathway into higher education, apprenticeships, or skilled employment within the construction and engineering industries.

T Level Design, Survey and Planning for Construction (Civil Engineering)

Level 3 | Openshaw | 2 years

Our T Level in Design, Surveying and Planning for Construction (Civil Engineering) prepares you for roles like project manager or surveyor. Over two years, you'll learn structural engineering, surveying, site management, cost control, and civil infrastructure design. Practical experience during your work placement develops teamwork and real-world industry skills for successful careers in civil engineering.

T Level Design, Survey and Planning for Construction (Construction and the Built Environment)

Level 3 | Openshaw | 2 years

This pathway focuses on modern construction technologies, modular building, and building services engineering like electrical, plumbing, and HVAC systems. You'll develop skills in project management, budgeting, scheduling, and client communication. A work placement offers hands-on experience on-site, helping you understand construction projects and build essential teamwork skills for the industry.

T Level Engineering, Manufacturing, Processing and Control (Fabrication and Welding)

Level 3 | Openshaw | 2 years

Our T Level in Engineering, Manufacturing, Processing and Control (Fabrication and Welding) prepares you for roles like fabrication technician or production specialist. Over two years, you'll learn welding techniques (MIG, TIG, arc), metalworking, health and safety, and quality assurance. Gain hands-on skills with technical drawings, CAD, and automated systems. A 45-day industry placement provides real-world experience in professional engineering and manufacturing environments.

T Level Foundation - Building Services Engineering (Electrical Installation)

Level 2 | Openshaw | 1 year

If you enjoy working with electrics, our Level 2 Building Services Engineering course is ideal. You'll learn electrical science, wiring installation, and industry technologies through hands-on training led by expert tutors and local employers. This practical course prepares you for jobs in the electrotechnical sector or progression onto our T Level in Building Services Engineering for Construction.

T Level Foundation - Design and Surveying (Built Environment)

Level 2 | Openshaw | 1 year

If you're analytical and interested in a specialist career, this course is a great starting point. You'll gain practical skills through hands-on training in real and simulated environments, develop teamwork, time management, and communication skills, and learn to follow briefs and processes. On completion, you can progress to our T Level in Design, Surveying and Planning for Construction.

T Level Foundation - Electrical, Electronics and Mechanical Engineering

Level 2 | Wythenshawe | 1 year

If you're aiming for a future in engineering and manufacturing, this T Level Foundation Year is the ideal first step. You'll build your understanding of engineering principles, processes, and materials, while developing key practical skills like machining, soldering, and workshop techniques. After completing the course, you'll be ready to progress to our T Level in Design and Development.

T Level Foundation - Engineering

Level 2 | Openshaw | 1 year

This one-year foundation programme provides a strong introduction to core engineering principles, preparing you for progression onto a full T Level or an apprenticeship. You'll develop essential knowledge and practical skills in areas such as mechanical, electrical, and manufacturing engineering, supported by hands-on workshops and project-based learning. Designed to boost confidence and technical ability, the course also focuses on employability and problem-solving, giving you the grounding needed for success in further study or industry.

T Level Foundation Fabrication and Welding

Level 2 | Openshaw | 1 year

Our T Level Foundation Year in Fabrication and Welding builds your skills and confidence for a career in engineering and manufacturing. Learn fabrication techniques, welding processes, and workplace safety through classroom and workshop training. You'll interpret technical drawings, use industry-standard equipment, and complete welding tasks to professional standards.

Electrical Installation

Level 2 | Openshaw and Wythenshawe | 1 year

This course is the ideal starting point for anyone interested in becoming an electrician. You'll study core topics such as electrical principles, wiring systems, and installation technology, building a strong foundation in the electrotechnical sector.

A work placement with local employers gives you hands-on experience through demonstrations, talks and practical learning.

On completion, you can progress to Level 3 Electrical Installation, the T Level in Building Services Engineering, an apprenticeship, or employment within the electrical industry.

Pathway to Electrical Installation

Level 1 | Openshaw and Wythenshawe | 1 year

If you're curious about how electrical systems work, this course is a great first step. You'll explore electrical science, gain practical experience with installation tools, and learn about electrotechnical systems. You'll also build knowledge of workplace expectations and safety — preparing you for real-world roles in electrical installation and maintenance.

Pathway to Civil Engineering

Level 1 | Openshaw and Harpurhey | 1 year

Our Pathways to Civil Engineering course provides the essential skills and knowledge needed to start a career in the civil engineering sector. You'll explore construction methods, structural design, surveying, and use industry software like AutoCAD and Revit. With a mix of classroom learning and hands-on workshops, you'll gain valuable practical experience.

Pathway to Fabrication, Welding, Mechanical and Electrical Engineering

Level 1 | Openshaw | 1 year

This practical course is a great introduction to the world of engineering. You'll begin with core units that build valuable skills in planning, research, teamwork and time management. Then, you'll get hands-on with projects involving electrical installation, hand tools, machining processes and CAD software — developing real-world experience and technical confidence.

Courses for Adults

Are you aged over 19 and looking to upskill, retrain or progress your skills in engineering? We've got a wide range of courses for you to help strengthen your CV, start a new career or go further in your current role.

We believe finances shouldn't be a barrier to your success, so if you have any questions about course fees, finance or funding, then get in touch with us.

Electrical Installation

Level 2 | Openshaw | 1 year

Level 3 | Openshaw | 1 year

Pathway to Plumbing

Level 1 | Openshaw | 1 year



 careers&welfare@tmc.ac.uk

 tmc.ac.uk/funding



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SUPPORTED LEARNING

Promoting independence through accessibility and inclusion.

Have you received learning support in the past? Do you have an Education, Health and Care Plan or an identified Special Educational Needs or Disabilities (SEND) need? Our Supported Learning team can help students with SEND to achieve their aspirational career goals.

We provide a highly personalised offer for students to create a supportive learning environment for all. Whatever course you choose to study, our provision is specifically designed to support you on your journey to independence and into further education or employment.

Find out more about how we can help you:
tmc.ac.uk/supported-learning



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Additional Learning Support Team: specialistsupport@tmc.ac.uk

Transition Team: transitionteam@tmc.ac.uk

DEGREE LEVEL

Once you've completed one of our Level 3 Diplomas you'll have the opportunity to progress onto a degree-level qualification through our higher education partner – UCEN Manchester

You can study one of our construction HNCs part-time:

HNC Construction Management for England - 2 years

HNC Automotive Engineering - 2 years

or our engineering HNCs, either full or part-time:

HNC Civil Engineering - 1 year

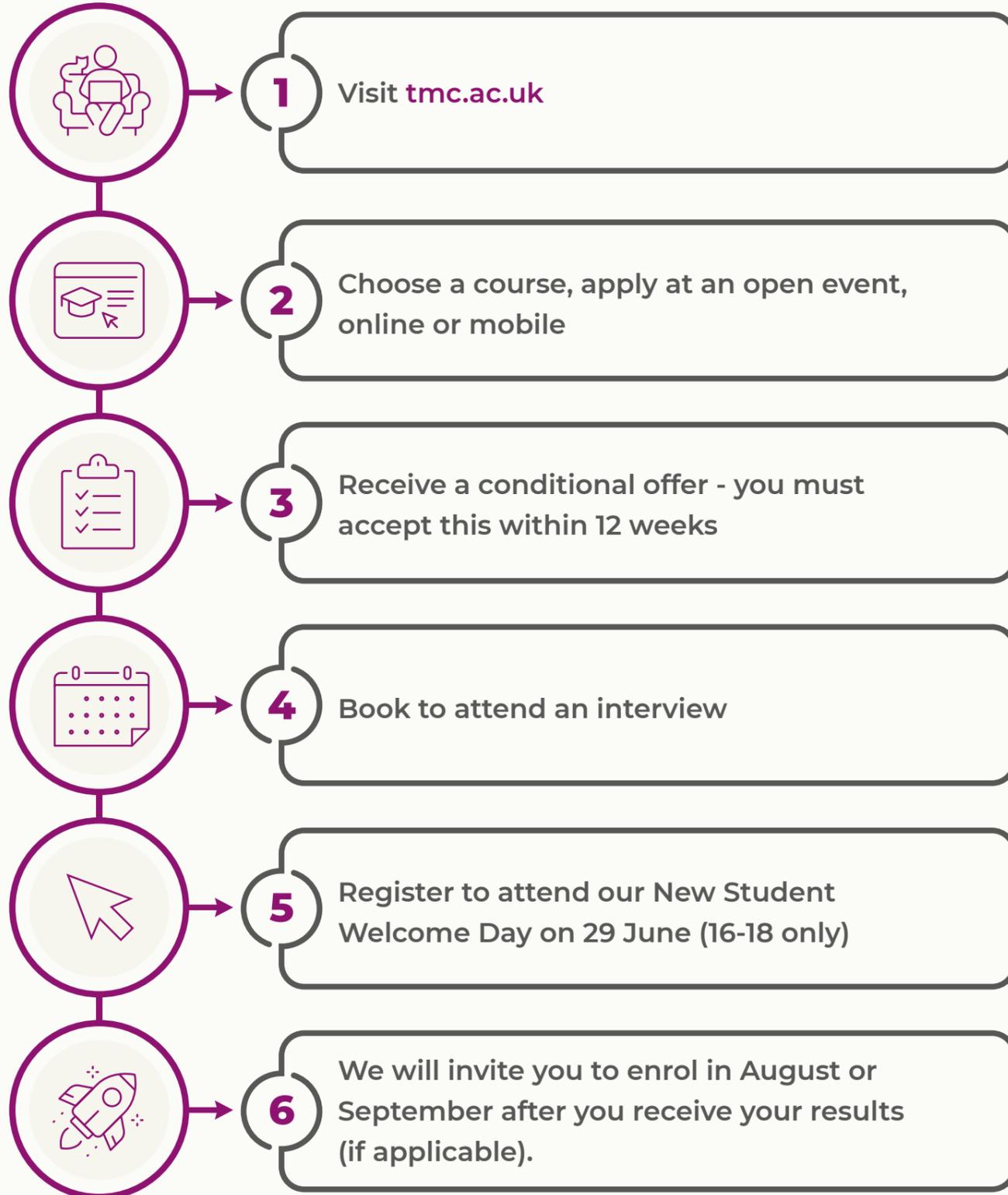
HNC Engineering for England - 1 year



For more information or to apply
visit ucenmanchester.ac.uk

How to apply

Applying to study at The Manchester College is really easy. Just follow these steps and you'll be on your journey to amazing in no time.



What's next?

You've explored what's possible, now it's time to take your next steps.

To discover more about Engineering, and to start your application, scan the QR code or visit: tmc.ac.uk/engineering.



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Visit us

There's no better way to get a feel for college than visiting in person.

Join us at one of our open events to:

- Learn more about our courses
- Tour our industry-standard facilities
- Meet our expert tutors
- Ask any questions you may have.

Secure your place now: tmc.ac.uk/events

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Contact Us

Got a question about one of our courses, about The Manchester College or just need to get in touch? Contact us:

 enquiries@tmc.ac.uk

 03333 222 444



All course information is correct at the time of publication and may be subject to change. For the latest details, please visit tmc.ac.uk.



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The Manchester College is committed to equality of opportunity, non-discriminatory practices and supporting individual learners. This information is also available in a range of formats, such as large print, on request.

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