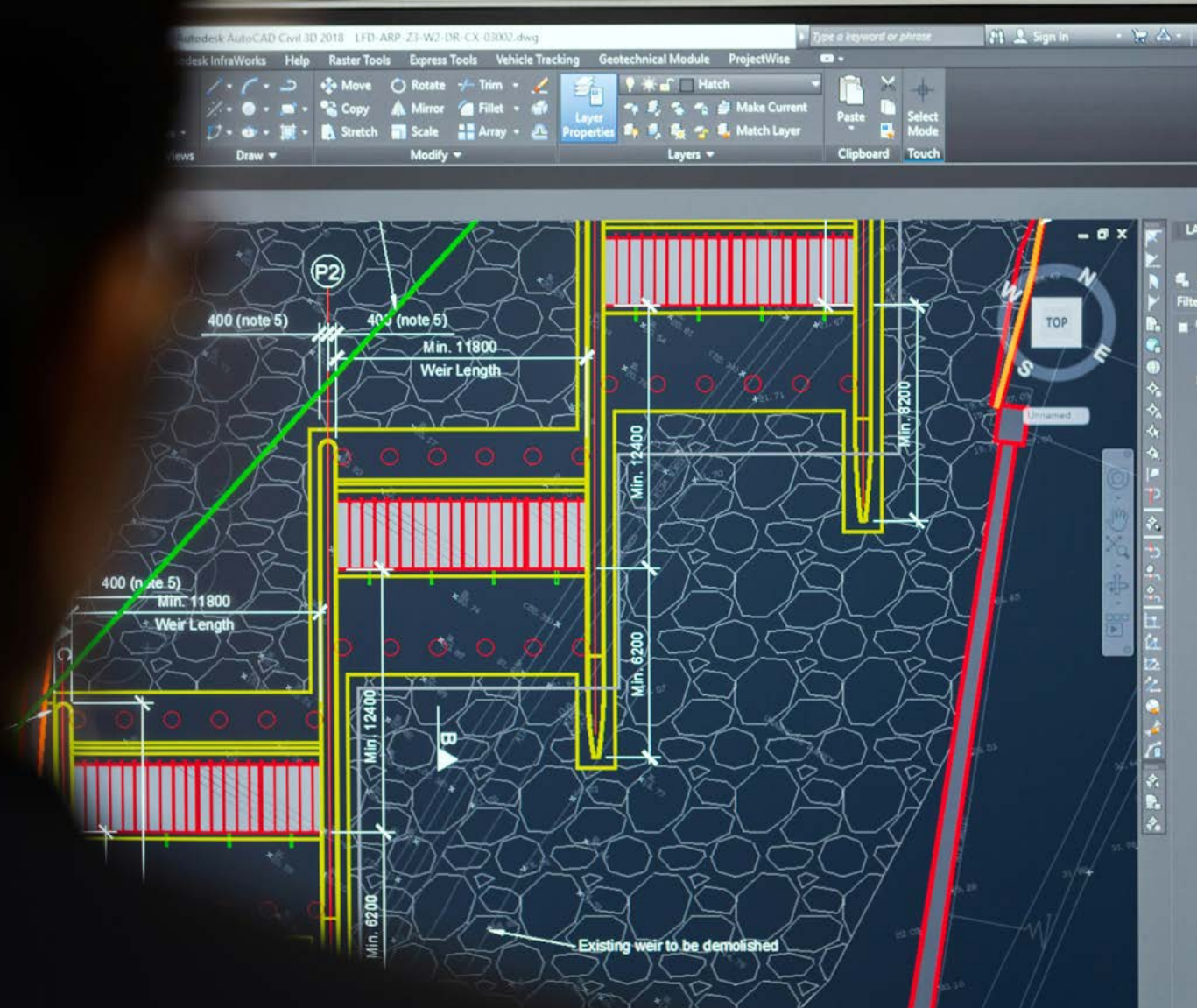


ENGINEERING



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to view online



The
Manchester
College®
be amazing

**WE ARE THE NUMBER ONE COLLEGE IN GREATER
MANCHESTER FOR OVERALL ACHIEVEMENT***

**Latest National Achievement Rates Tables.*

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5 Reasons to Study



Engineering at The Manchester College



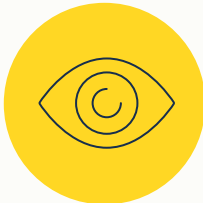
Number 1 in Greater Manchester

Our achievement rates are the highest of all colleges in Greater Manchester for the 8th year running and we're one of the top 3 in the country.*



Progression that opens doors

Over 94% of TMC students move on to a positive destination such as employment, an apprenticeship or degree-level study.**



Ofsted recognition

In our most recent Ofsted inspection, we were rated 'Good' overall and 'Strong' for our contribution to skills.



Over 1,000 employer partners

We work with employers across lots of industries, so you can build your confidence through a meaningful work placement, industry talks and live projects.



Get career ready from day one

Designed with your next step in mind, our courses help you build real-world skills, confidence and experience so you're ready for work, an apprenticeship or university.

* Latest National Achievement Rates Tables.

** Latest Internal Progression Data.



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

Where to find us

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





Get Directions



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

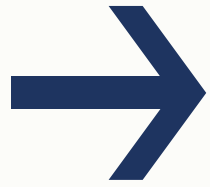




Get Directions



- 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.



Wythenshawe



Get Directions



- 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.





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

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.



What you can study

We offer qualifications from Level 1 to Level 3. If you haven't already obtained a Grade 4 GCSE in English or maths, you'll also work towards achieving this alongside your main course.

Types of qualifications

T Levels

Developed in collaboration with employers, T Levels are career-focused technical programmes that provide young people with a high-quality alternative to A Levels.

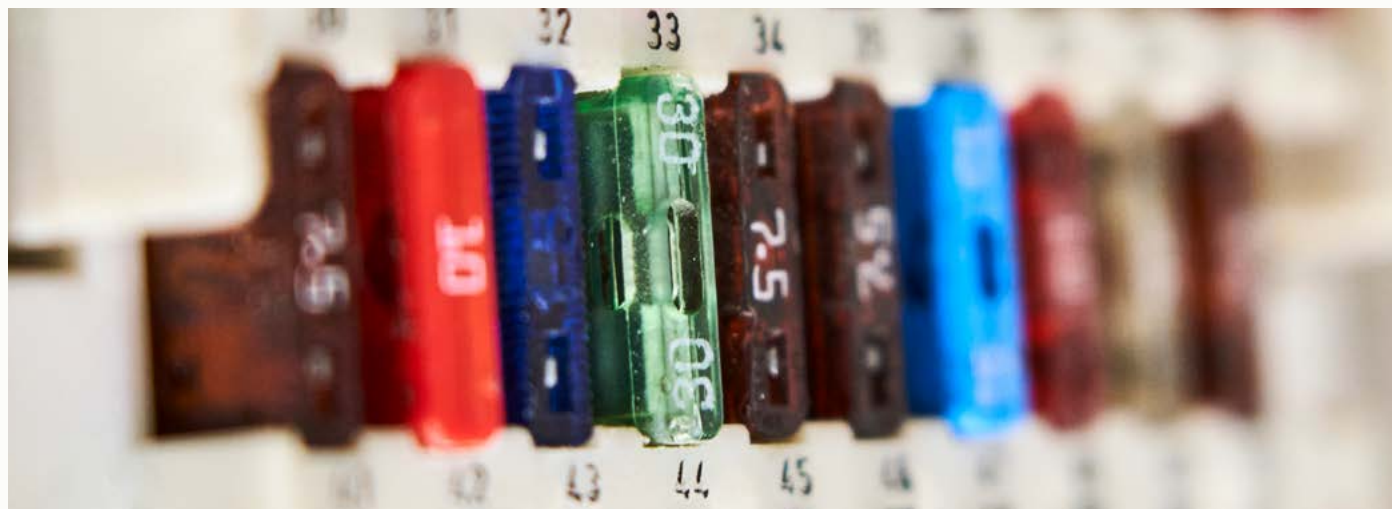
For more information visit tmc.ac.uk/tlevels

- 2-year programme
- Equivalent to three A Levels
- 45-day industry placement
- 11 subject areas.

Other Technical Qualifications

Our wide range of technical and creative qualifications equip you with the skills you'll need to progress. This includes BTECs and UALs.

- 1 or 2-year programmes
- Work placement
- Levels 1-3
- 20 subject areas.



T Level Building Services Engineering for Construction (Electrical Installation)

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) 

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) 

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)

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 Building Services Engineering (Electrical Installation)

Level 3 | Openshaw | 2 years

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 Design and Surveying (Built Environment)

Level 3 | Harpurhey and Openshaw | 2 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 Fabrication and Welding

Level 3 | Openshaw | 2 years

The T Level in Engineering, Manufacturing, Processing and Control, specialising in Fabrication and Welding, is a two-year technical qualification designed to prepare learners for a career in the engineering and manufacturing industries. Combining classroom-based learning with a substantial industry placement, this qualification provides the knowledge, skills, and behaviours required to excel in fabrication and welding roles.

Electrical Installation

Level 3 | Openshaw | 1 Year

This Level 3 in Electrical Installation is designed for students aiming to develop the technical and professional skills needed for a successful career in the electrotechnical industry. Throughout the course, students will gain hands-on experience and in-depth knowledge across a range of key areas, including electrical science principles, system inspection and testing, and electrical fault diagnosis. Learners will engage in practical activities using industry-standard tools and equipment in dedicated workshops, building essential skills in safety, problem-solving, and technical accuracy. This course is an ideal stepping stone into employment or further training within the electrical sector.

Engineering

Level 2 | Openshaw | 1 year

Our Level 2 Certificate in Engineering gives learners the key knowledge and practical skills to start a career in the engineering and manufacturing industries. It covers engineering materials, mechanical principles, machining, fabrication, health and safety, and CAD, combining theory with hands-on workshop experience.

This qualification builds a strong foundation for further study and career development. Learners can progress to a Level 3 Diploma in Engineering, a T Level in Engineering and Manufacturing, or an Engineering Apprenticeship, leading to roles such as Engineering Technician, CNC Operator, or Manufacturing Engineer.

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.

Fabrication and Welding

Level 2 | Openshaw | 1 year

Our Level 2 Certificate in Fabrication and Welding equips learners with the essential knowledge and hands-on skills needed to start a career in the fabrication and welding sector of the engineering industry. You will cover key topics such as welding principles and processes, fabrication methods, interpreting engineering drawings, materials and their properties, and health and safety. The course blends theory with practical workshop training, preparing learners for real-world engineering environments.

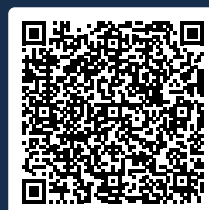
Pathway to Electrical Installation

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.

Interested in Construction?

Explore our full range of construction qualifications – just scan the QR code to view our website.



Find out
more here

Pathway to Engineering

Level 1 | Openshaw | 1 Year

You will study core units that focus on key transferable skills such as research and planning, time management and working with others. You will also take a number of sector units. The content of the sector units offers a broad introduction to the skills and knowledge within that sector, allowing the delivery to be practical, active and engaging.

Pathway to Civil Engineering

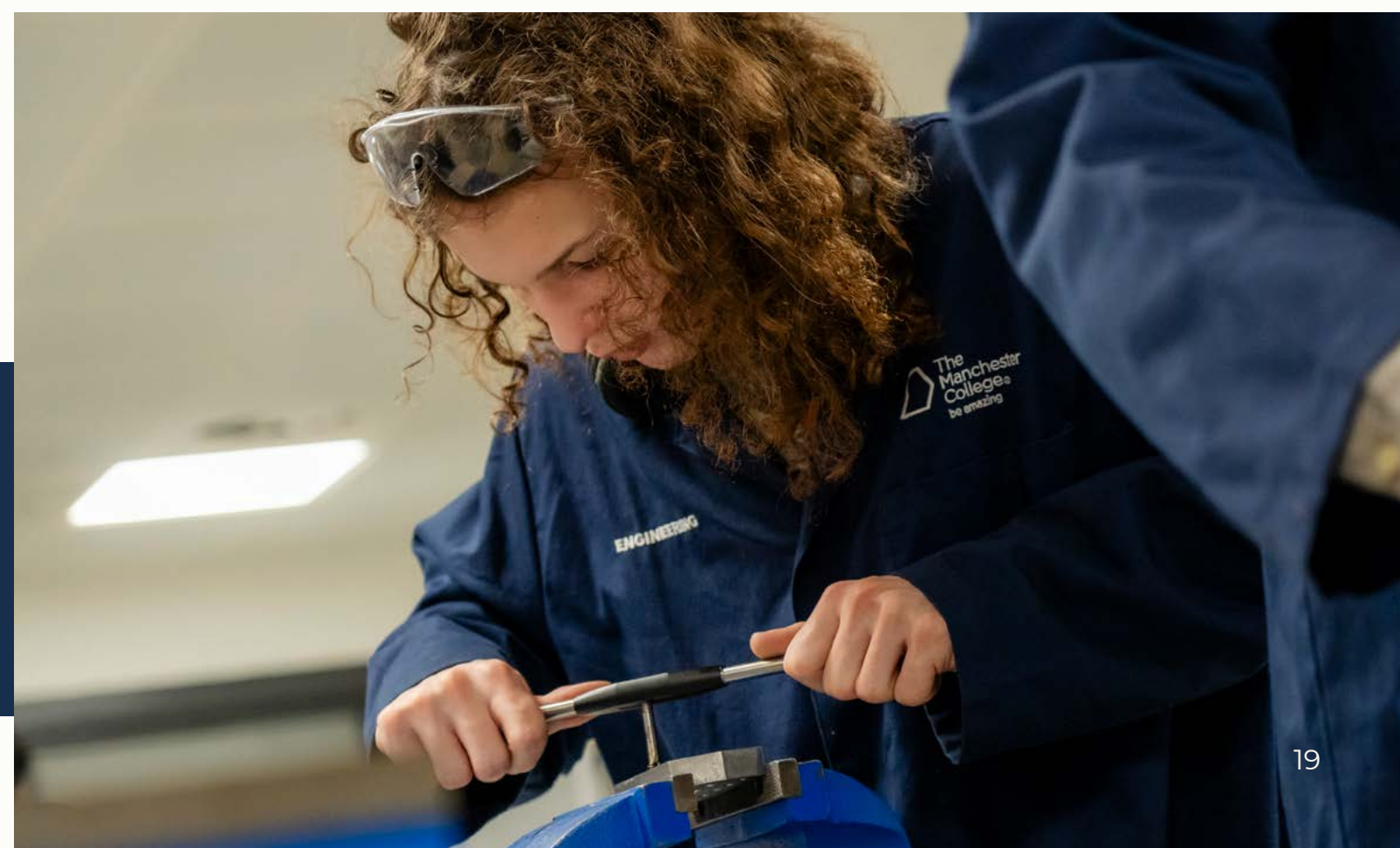
Level 1 | Openshaw and Harpurhey | 1 year

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

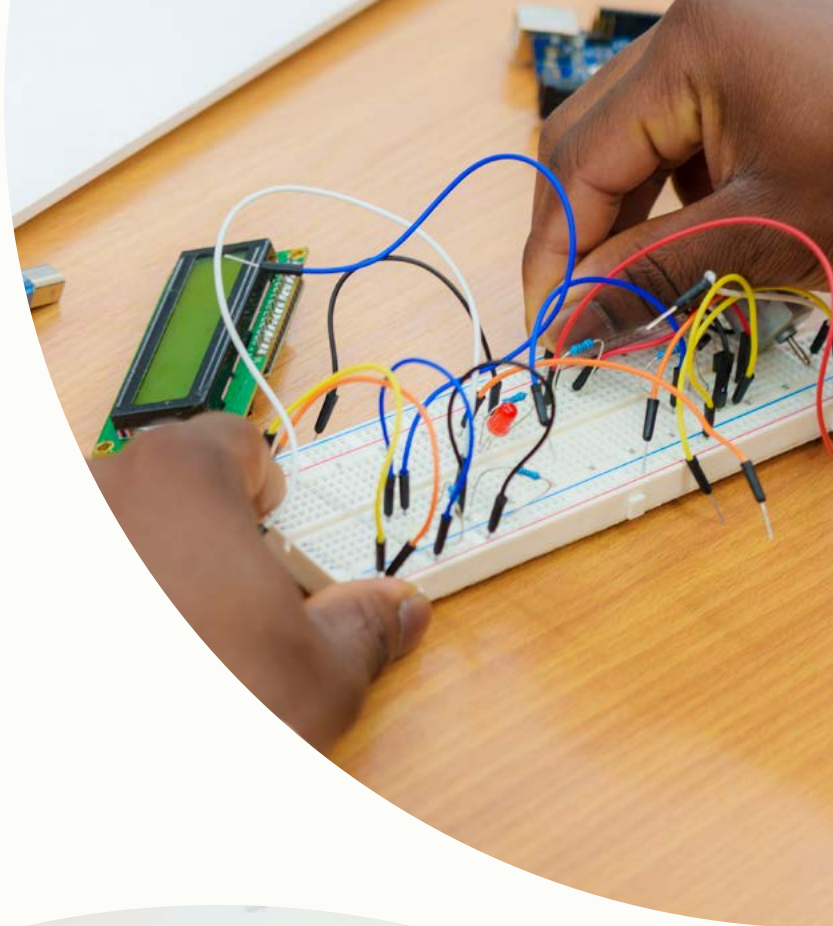
Level 1 | Openshaw | 1 year

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.



Electrical Installation

Level 2 | Openshaw | 1 year

Level 3 | Openshaw | 1 year



Got a question about funding?
Get in touch with our friendly team.

 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.



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



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

Thinking about your next step after college?
Discover degree-level courses that'll get you ready for anything.



**EXPLORE
DEGREES**

ucenmanchester.ac.uk

DEGREE LEVEL

Once you've completed one of our Level 3 Diplomas at College, you'll have the opportunity to progress on to our degree-level qualifications through our higher education partner, UCEN Manchester.

ENGINEERING COURSES AVAILABLE

Benefit from hands-on, practical learning, small class sizes and state-of-the-art facilities.

Choose one of our higher education pathways in:

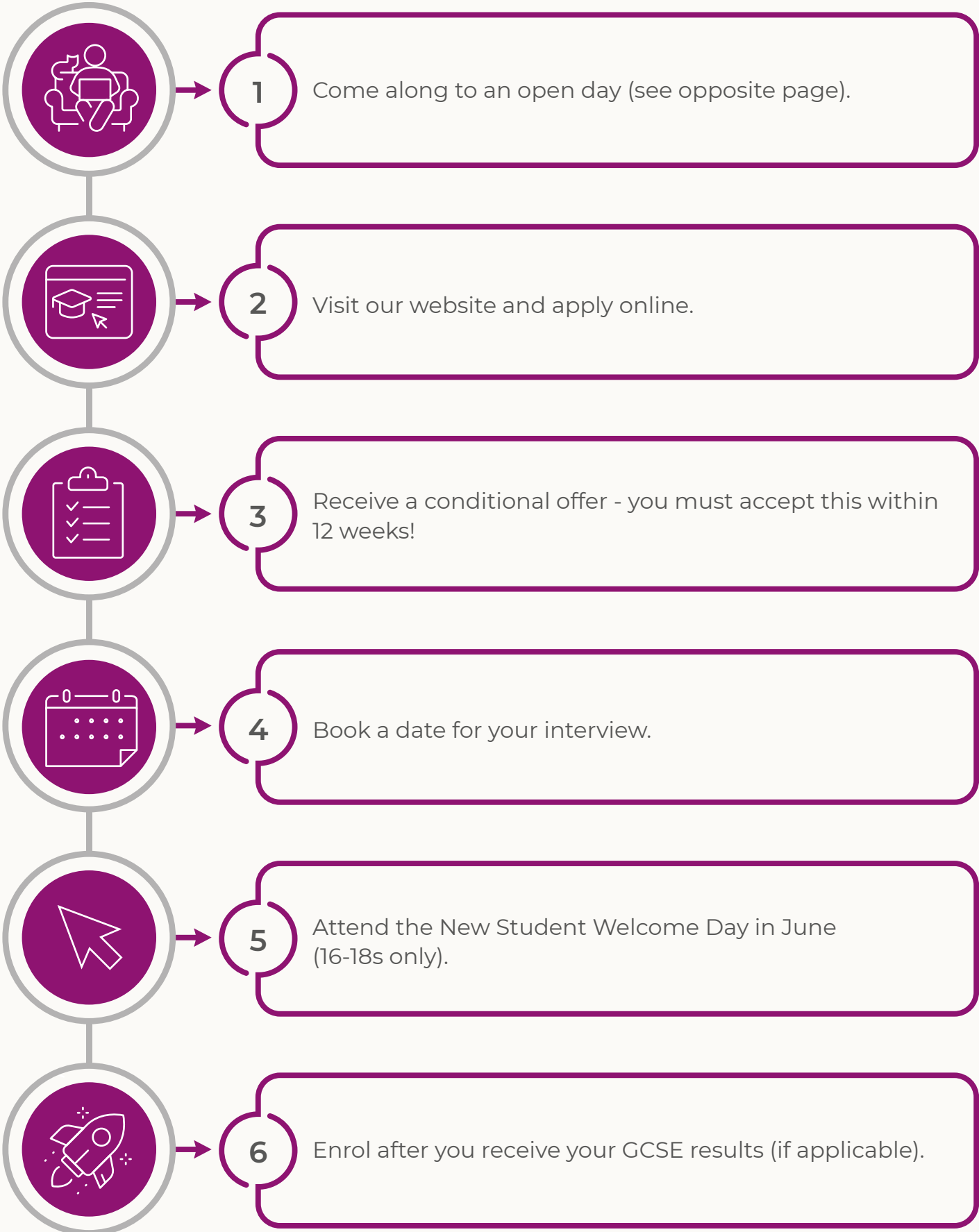
- > Automotive Engineering
- > Civil Engineering
- > Engineering for England.



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

Your next steps

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.



Open events

Come and see what makes us the number one College in Greater Manchester* for yourself.

Open events are the perfect place to speak to our tutors, explore our amazing facilities and chat to our support teams.

School Leavers

**Tuesday 6 October**
5-7pm

**Saturday 14 November**
10am-1pm

**Thursday 4 March**
5-7pm

Adults

**Thursday 20 May**
5-7pm



Book your place
tmc.ac.uk/events



* National Achievement Rates Tables.





The
Manchester
College®
be amazing

Find us on social



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

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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