



GREATER MANCHESTER

I N S T I T U T E O F  
T E C H N O L O G Y

Working together to upskill  
the region's future workforce

Technical.  
Skills.  
Work.

[gmiot.ac.uk](http://gmiot.ac.uk)



# Meeting Greater Manchester's needs



## Advanced Engineering & Manufacturing

- + Greater Manchester's Manufacturing industry employs 110,000 people across more than 6,000 businesses, generating £8bn of economic output each year.
- + Manufacturers are facing the largest shortage of skilled workers since 1989. Local skills gaps are in several technical areas, including digitalisation (trends towards Industry 4.0), advanced materials, automation, and management skills.



## Computing & Digital Technologies

- + 10,000+ digital and creative businesses employing over 85,000 people, with ambitions to grow this to 96,000.
- + 85% of middle skills jobs and 83% of high skills jobs require digital skills (over half requiring specific technical digital skills).



## Construction & the Built Environment

- + The construction sector employs 54,000 people in Greater Manchester and generates Gross Value Added (GVA) of £3bn. Potential for an additional 19,000 jobs in the construction sector by 2035, adding an additional £1.7bn to the economy.
- + The construction industry is facing large and persistent skills gaps and skills shortages - up to 750,000 could retire or be on the verge of retiring over the next 15 years, and just 20.3% of construction workers are aged under 30.



## Health & Social Care

- + By 2036, Greater Manchester is projected to experience a 75% increase of the population aged 75 and above, compared to statistics from 2011. This demographic shift is already reflected in the employment landscape, with health professionals occupying two of the top five occupations set for the highest forecasted growth between 2017 and 2027.
- + Only 10% of healthcare staff currently hold qualifications at Level 4 or higher, compared to 30% of the working age population in Greater Manchester. Key areas requiring specific technical skills include MedTech, Diagnostic, Therapeutic, and Digital Technology.



# Foreword

**The Greater Manchester Institute of Technology (GMloT) offers higher technical training specialising in the construction, engineering, digital, media & creative and health sciences sectors.**

The GMloT delivers training and employment opportunities that are co-created with employers and specifically designed for the careers of the future as well as responding to current skills and workforce needs.

It plays an important role in addressing skills shortages and in delivering the Local Skills Improvement Plan to build Greater Manchester's economy. To address the need for a skilled, technically qualified workforce, the Government created flagship Institutes of Technologies (IoT) across the UK and the GMloT was launched in September 2023.

The GMloT is an exciting collaborative partnership between employers and education partners. We are committed to designing and delivering an innovative technical curriculum and our mission is to provide a pipeline of talented, work ready individuals qualified to levels 4 or 5 (HNC/HND level) in technical sectors to meet business need. Our ambition is to offer a wealth of opportunities to both students and employers; upskilling students by offering quality technical education aligned to industry needs, meaningful work placement opportunities and access to state-of-the-art technology and facilities and to provide employers with a pipeline of trained talent ready to join the region's workforce.

We look forward to working with you.

**Claire Foreman,**  
Director of the Greater Manchester  
Institute of Technology



**The Institute of Technology in Greater Manchester is already making a valuable contribution to the education and skills system in our city and offering residents of all ages new routes into highly skilled, high paid jobs.**

Collaboration is in our DNA as a university, so we are delighted to be working with a range of partners in order to develop a skilled workforce of the future that will boost the growth of STEM industries in our city region and beyond.

**Jo Purves,**  
Pro Vice-Chancellor Academic Development  
at the University of Salford



# Employer partners



**GCHQ is a world-leading intelligence, cyber and security agency with a mission to keep the UK safe. Embarking on a once in a generation undertaking in Manchester and the North West, granted significant investment to accommodate workforce growth by 2030. The plan is to create a GCHQ where everyone, whatever their start in life, can join, thrive and give back to the communities that they serve.**



## Offices in central Manchester

By working with students from schools, colleges and universities and through its partnerships with industry and academia, GCHQ aims to grow and sustain the region's talent pipelines.

GCHQ's partnership with GMIoT offers software engineering apprenticeships, analyst development programmes and university placements for students from diverse, underrepresented backgrounds.

*"To truly protect the nation we must reflect the nation".*



**Laing O'Rourke is an international engineering and construction company delivering state-of-the-art infrastructure and buildings projects for clients in the UK. With over 150 years of expertise, its highly-trained people understand the challenges of modern construction and combining purposeful technology, wielding innovations like digital engineering and AI for powerful results.**



## Offices in South Manchester

Laing O'Rourke has delivered a number of high profile projects for Manchester Metrolink, Manchester Airports Group and Manchester University. Community engagement is a vital aspect of its work. Ensuring each project leaves a lasting social legacy, whether that's supporting people with barriers to employment, providing jobs, apprenticeships and work placements in the region.



## SIEMENS

**Siemens employs up to 11,000 people in Great Britain and Ireland. Since 2019 Siemens flagship building at Didsbury, Manchester has been designated the company's UK Head Office.**



### **Head office in South Manchester**

Siemens are a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to sustainable transportation as well as advanced healthcare.

## TalkTalk

**TalkTalk are a company rooted in Greater Manchester and the only major internet service provider in the UK headquartered outside of the South East. With their HQ in Salford, TalkTalk believe that they are surrounded by talent and part of a vibrant tech scene – their move to Salford in 2018 was more than just geography. It has deeply influenced their core objectives; one of which is to make the North West the best place in England to live and work in technology.**



### **Headquarters in Salford Quays**

TalkTalk are in the North West for the long haul and are committed to developing the tech talent of the future. They see their partnership with the GMIoT as crucial to their success.

By working closely with the GMIoT, TalkTalk are providing students with real-world experiences to set them up for success in future tech roles and retain great talent in Greater Manchester.





## Employer benefits

**There are many ways in which you can work with us from contributing to course design to ensure that we are training students in the skills you most need, to actively participating in the delivery and assessment of course content.**

We facilitate employer engagement through hosting visits and offering work experience and placements, providing a platform to meet future employees. Additionally, we offer opportunities for employers to elevate their company's profile by participating in keynote speaker events or experimenting with our cutting-edge technical equipment that can enhance your business operations. The GMIoT also provides Continuing Professional Development (CPD) courses designed to upskill your current workforce, ensuring the future resilience of your business.

Working with the GMIoT gives you the opportunity to build your brand with the future workforce and provides you with access to a skilled pipeline of trained talent. We offer opportunities to network with other GMIoT employers who also put skills and development at the heart of their businesses.



# An enhanced student experience

**We know that technical skills can't be taught in the traditional classroom environment. The GMIoT provides students with high quality level 4/5 technical qualifications in STEM-based subjects along with the opportunity to tackle real-world challenges working closely with local employers.**

Our courses are specifically designed in conjunction with employers to ensure that students are prepared for their chosen industry. With frequent exposure to the workplace and access to student mentoring, skills competitions and career advice, students are work-ready on completion of their course.

Whether students choose to study at Ada, the National College for Digital Skills, Bury College, Tameside College, the University of Salford or Wigan & Leigh College, they have the same high-quality experience as a valued member of the GMIoT community. We also provide students with access to state-of-the-art facilities such as simulation technology and equipment.

Our careful integration of education and employment ensures that our students leave the GMIoT with the skills and knowledge to meet the region's evolving workforce needs.





# The courses we offer

**GMIoT courses are offered through our education partners across Greater Manchester and you can find more information on individual providers' websites and in their prospectuses.**

We understand that our students often have multiple work and life commitments and most of the HNDs are delivered over 2 years or up to 4 years to enable different paces of learning and work with differing time commitments.

Courses are available in a variety of formats with a range of delivery models including compact timetables, flexible learning and block teaching.

Courses are delivered through a variety of teaching methods including face-to-face lectures, online teaching and access to a range of resources.

New courses and short courses that provide tasters for these programmes are added on a continuous basis so keep an eye on our website as we continue to offer new options in response to business needs. There are also additional courses on offer at each institution such as related degree programmes or T Level courses.





## Computing & Digital Technologies

HND Computing for England  
HNC / HND Computing (Cyber Security)  
Data Analytics & Visualisation (Data Analyst)  
Digital Innovation (Software Developer)  
Digital & Technology Solutions Professional  
HND Digital Technology & Artificial Intelligence Solutions and Applications  
DipHE Business Analytics  
DipHE Digital & Software Technology  
HND Esports Business Management  
Mini MBA in Digital Transformation | SPD

## Construction & The Built Environment

HNC / HND Construction & Built Environment  
Construction Quantity Surveyor Technician  
Construction Design & Build Technician  
Construction Site Engineering Technician  
Construction Site Supervisor  
HNC / HND Construction Management  
DipHE Supply Chain & Project Management

## Digital & Creative Media

FdA Graphic Design  
BA (Hons) Creative Practitioner  
DipHE Media & Network Systems  
DipHE Social Media Content Creation  
DipHE Creative & Digital Media

## Advanced Engineering & Manufacturing

HNC Mechatronics  
HNC / HND Mechanical Engineering  
HNC / HND Electrical Engineering  
HNC / HND Electrical & Electronic Engineering  
HTQ Electrical Systems Engineering  
HTQ Electronic & Electrical Systems Engineering  
HND Electrical & Power Routes Engineering  
BEng (Hons) Electrical & Electronic Engineering (Power stream)  
HNC Manufacturing Engineering  
HNC / HND Automation & Control Systems Engineering  
Electrical Power Networks Engineer  
Nuclear Scientist & Nuclear Engineer  
Building Services Engineering Technician  
Power Network Engineer

## Digital Health & Wellbeing

FdSC Nursing Associate  
HNC Healthcare Practice  
Access to HE in Nursing / Midwifery / Allied Health / Science  
Diploma in Therapeutic Counselling  
Cognitive Behavioural Therapeutic Skills & Theory Diploma  
HNC / HTQ Healthcare / Science / CertHE Nursing  
T Levels in Digital & Health  
HNC / HTQ Sports



# Our education partners

## **Ada** [ada.ac.uk](http://ada.ac.uk)

Ada, the National College for Digital Skills, is a specialist digital skills college. We are training and developing diverse higher-level and degree-level apprentices into fantastic roles in the tech sector. Our mission is to educate and empower the next generation of diverse digital talent. With support from Manchester City Council and the Department for Culture, Media and Sport, along with key industry figures and employers, we are delivering digital skills courses and degree apprenticeships from our base in Manchester Ancoats.

## **Bury College** [burycollege.ac.uk](http://burycollege.ac.uk)

Bury College is a further education college which offers a wide range of learning opportunities for all. Recognised as an institution which responds to the needs and requirements of Greater Manchester learners and employers. Bury College is a growing campus, with several centres housing a range of specialist facilities that support learners undertaking technical training.

## **Tameside College** [tameside.ac.uk](http://tameside.ac.uk)

Tameside College is a further education college in the borough of Tameside, East Manchester. The college provides skills and training for school and college leavers, employees and the adult community. Tameside aim to support the individual aspirations of each learner by providing first class learning environments and resources. The college has developed a reputation as a specialist provider of engineering skills training to degree level.

## **University of Salford** [salford.ac.uk](http://salford.ac.uk)

A forward thinking approach has powered progress for 125 years. Today, the University of Salford is bolstered by countless industry initiatives and innovative research programmes, building a thriving education community in Salford and beyond. Lead higher education partner for the GMIoT, the university accommodates four schools, covering areas of the arts, media, creative technology, business, health, society, science, engineering and the environment. Each of the courses have been written and advised upon by a variety of senior industry professionals to ensure that they are developing courses that are up-to-date and relevant to industry demands.

## **Wigan & Leigh College** [wigan-leigh.ac.uk](http://wigan-leigh.ac.uk)

Wigan & Leigh College offer exceptional teaching, support and guidance in a range of academic, vocational, technical and apprenticeship programmes. The ambition is to develop learner skills and knowledge to prepare students for successful careers, whilst providing a curriculum that meets local and regional needs. Strong partnerships with regional employers help the college to prepare young people for success in further studies and careers. Working with employer partners through mentoring, industry masterclasses, industry visits and work placements. Specialising in engineering, construction and digital.



University of  
**Salford**  
MANCHESTER



**University  
Centre**  
Wigan & Leigh College



# Many paths to success

**With the economy's need for a technically qualified workforce driving crucial changes in the education system, there are now many ways to achieve your career ambitions. IoTs are one such option, opening up new and exciting possibilities.**

Wigan & Leigh College student, Tom Owen has high hopes for career progression in the engineering sector. His employer Severfield is supporting Tom through his studies and he completed the HNC level 4 qualification in Mechanical Engineering last year. Not only that, Tom also achieved the Higher Education Engineering Manufacturing Apprentice of the Year at the College's Annual Apprenticeship Awards.

The 23-year-old is now undertaking a HND in Mechanical Engineering. Alongside this, Tom gets to work on some world-class projects including Manchester's Co-op Live £365 million arena and the 52,888-seater Everton football stadium on the banks of the river Mersey.




*"Managing the workload is tricky but earning money and gaining independence through the degree apprenticeship route has been perfect for me," said Thomas. "If I had gone to uni as a full-time student I don't think I would've managed to get the work done. There would have been too many distractions."*

Tom aims to progress to the degree-level apprenticeship and pursue a role as a Production Planner or in management/supervision upon completion of the course. He has high hopes for career progression within the engineering sector.

Whether you're looking for full or part-time education, an apprenticeship or classroom-based learning, GMIoT courses provide advanced skills development at top facilities, in various formats and styles to suit diverse needs, circumstances and aspirations.







Together we can build the  
region's future talent pipeline.

Find out more at  
**[gmiot.ac.uk](https://gmiot.ac.uk)**

Contact us at  
**[info@gmiot.ac.uk](mailto:info@gmiot.ac.uk)**

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Technical  
Skills