WMG Academy for Young engineers Solihull

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SIXTH FORM

SIXTH FORM
INFORMATION BROCHURE





UNIVERSITY OF WARWICK

SCIENCE, **T**ECHNOLOGY, **E**NGINEERING, **M**ATHS + **DIGITAL**

University Technical Colleges

solihull.wmgacademy.org.uk

WELCOME



WMG Academy Solihull is an exciting school created to develop tomorrow's engineering and technology specialists. The curriculum is heavily supported by local and national STEM employers who provide the 'world of work' experience to reinforce the skills learnt in the academy.

CEO STEWART TAIT

It is with immense pride as the Principal that I welcome you to WMG Academy Solihull. We pride ourselves on getting our young people ready for the world of work, developing business-like, business led behaviours and offering opportunities with employers to ensure our young people are ready for their next steps.



The Academy places a particular focus on STEM (Science, Technology, Engineering and Maths). Please take a look at the STEM curriculum we have to offer and the wonderful opportunities available to all our young learners both inside and outside the classroom.

ASSOCIATE PRINCIPAL CLAIRE MORRIS

As the Lead for Post 16/Sixth Form I take great pride in supporting our students through their educational journey. I pride myself in the work that our specialist teachers and pastoral support team do to ensure that by the end of their studies, students are not only equipped with the necessary skills for the world of work, but have developed professional business behaviours. The confidence and resilience our young people show is a testament to every member of the Post 16 team.

Our “Business like, Business led” ethos sets our young people apart and ensures they secure the very best destinations for them ensuring continued success in their futures.



KEY STAGE 5 LEAD JASVIR KAUR

OUR ACADEMY

WMG Academy for young engineers Solihull is a University Technical College specialising in engineering for students in Year 9, 10, 11, 12 and 13. Opened in 2016, the academy boasts unrivalled industry standard equipment in a purpose built Engineering Hall which showcases over £2 million of specialist equipment and ICT.

The Solihull academy is the second Warwick University sponsored specialist academy and mirrors the same innovative design as the WMG Academy Coventry located next to the university campus.

The Solihull Academy has thrived and expanded since opening and currently has 400 students on roll. Within the purpose-built site, is a canteen, dining area, activity area and a multi use games area alongside outside seating.



Dedicated ICT facilities include two state-of-the-art CAD suites, an electronics room with industry-standard software, and a dedicated digital space for developing practical digital skills. Every student is also provided with their own Chromebook.

These facilities in conjunction with specialist teaching staff allow engaging and innovative teaching and learning through digital technologies. The building is also designed with ‘make and do’ areas and ‘break out spaces’ that allow flexible learning spaces to mirror the world of work.

WHY CHOOSE WMG SIXTH FORM?

Industry-connected education and outstanding results
Learn alongside employers and develop the professional behaviours businesses really value.

University & apprenticeship ready
Whether your ambition is university, a degree apprenticeship or employment, we'll help you get there.

Learn by doing
Access specialist facilities, practical projects and real-world challenges.

Experiences beyond the classroom
Fully funded trips, university visits, employer events, international opportunities and reward experiences.

Become a professional
Develop confidence, communication, leadership, teamwork and professional behaviours.

Personalised pathways
Mix academic and technical qualifications to create a pathway that works for you.

Outstanding support
Dedicated pastoral, academic, careers and progression support throughout Years 12 and 13, study support intervention, mentoring

Proven destinations
Securing apprenticeships at top firms such as JLR and Rolls Royce.



WHAT MAKES WMG ACADEMY SPECIAL?

We will ensure that our learners have high aspirations that provide the motivational drive to succeed. Strong employer, further and higher education links, as well as a professional ethos and culture, ensure our learners will be in demand from employers.

Our unique status of working very closely with some of the biggest employers in the region means that we have shaped a curriculum from day one, to ensure we produce learners with a professional ethos and culture. Team working is the norm and learners work together to develop the skills that employers really value. We are committed to developing team working, problem solving, creativity, leadership, communication, resilience and an ability to respond to change. As staff, it is our role to model those skills and behaviours to our learners in everything that we do.



Students at Post 16 can follow a flexible pathway bespoke to their needs. Students can opt to study three, Level 3 qualifications. Course include: T-Level Technical Qualification in Engineering, Manufacturing, Processing and Control, or T level in Digital Software Development, AAQ's in Engineering, Science, Art or Business. A Levels include: Product Design, Electronics, Computer Science, Maths, Further Maths, Physics, Chemistry and Biology. Students can mix qualifications to suit their own pathways.

T-LEVEL

TECHNICAL QUALIFICATION IN ENGINEERING, MANUFACTURING, PROCESSING & CONTROL AND DIGITAL SOFTWARE DEVELOPMENT

OVERVIEW OF THE COURSE

T-Levels are new courses which will follow on after GCSEs and will be equivalent to three A Levels. These two-year courses have been developed in collaboration with employers and businesses so that the content meets the needs of industry and prepares learners for the world of work.

Technical qualification scheme of assessment overview

Core Component – Learners must complete **all** assessment components						
Assessment component	**Method**	**Duration**	**Marks**	**Weighting**	**Marking**	**Grading**
Exam paper 1	Externally set exam	2.5 hours	100	35%	Externally marked	This component will be awarded on the grade scale A* - E
Exam paper 2	Externally set exam	2.5 hours	100	35%	Externally marked	
Employer-set project	Externally set project	15.5 hours	90	30%	Externally marked	
Occupational Specialism Component - Learners must complete **one** assessment component						
Assessment component	**Method**	**Duration**	**Marks**	**Weighting**	**Marking**	**Grading**
Fitting and assembly technologies	Externally set assignment	25 hours 15 minutes	90	100%	Externally moderated	

T-LEVEL FOUNDATION PROGRAMME

Students that do not meet the entry requirements for the T-level course but still would like to study it can enter the T-level Foundation programme. This program will develop students' Maths knowledge and understanding, improve their oracy and presentation skills as well as developing their practical skills in the workshops and will offer work experience opportunities in preparation for the full T-level course. By enrolling onto the foundation programme, students will spend 3 years in the 6th form.

T-LEVELS

THE NEXT LEVEL QUALIFICATION

WMG Academy for Young engineers

OUR VALUES

ASPIRATIONAL

We Strive To Meet Our Potential.
I contribute by:

- Always giving my best
- Striving for high quality results
- Working well with the members of my community
- Demonstrating perseverance
- Reflecting on feedback to continuously improve
- Modelling the business-like, business-led ethos





PROFESSIONAL

We Embrace The Standards.
I contribute by:

- Taking responsibility for my own actions
- Having a positive and 'can do' attitude
- Following the dress code
- Attending consistently and being on time to lessons
- Being prepared for learning
- Being respectful to the Academy's community

RESPECTFUL

We Inspire One Another and Our Community.
I contribute by:

- Setting a good example
- Showing empathy
- Respecting the beliefs and values of others
- Being reliable
- Acting with integrity and honesty
- Treating others with kindness



THE SIXTH FORM HUB

Our Sixth Form space is an modern hub designed to feel less like a school and more like a professional innovation centre. It's an exciting, business-led environment where students have access to state-of-the-art CAD suites, high-tech electronics labs, and flexible "make and do" areas. Whether you are collaborating in our vibrant breakout spaces or focusing in our dedicated quiet study zones, every inch of the facility is built to bridge the gap between education and the professional world. With a constant buzz of creativity and industry-standard technology at your fingertips, it is the perfect place to transition into your future career.

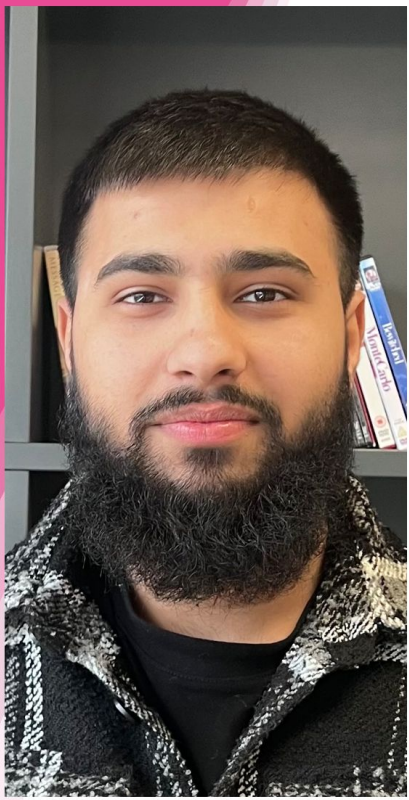












MAMER SAJID

CLASS OF 2021

BUSINESS MANAGEMENT
BIRMINGHAM CITY UNIVERSITY

CAREER JOURNEY

Mamer initially pursued a degree in Electrical and Electronic Engineering at Aston University with ambitions of becoming an engineer. During his studies, a range of personal and professional experiences helped him reassess his career aspirations, leading him to transition into Business Management. This journey has allowed him to explore new interests while developing a broader understanding of leadership and organisational practice.

ADVICE TO STUDENTS...

"Stay true to yourself and follow what your heart tells you. More often than not, your instincts are right if you remain consistent. If someone tells you that you have only a short time to decide what you want to do in life, don't believe them. Finding your true calling is a journey that develops through time, effort and experience."

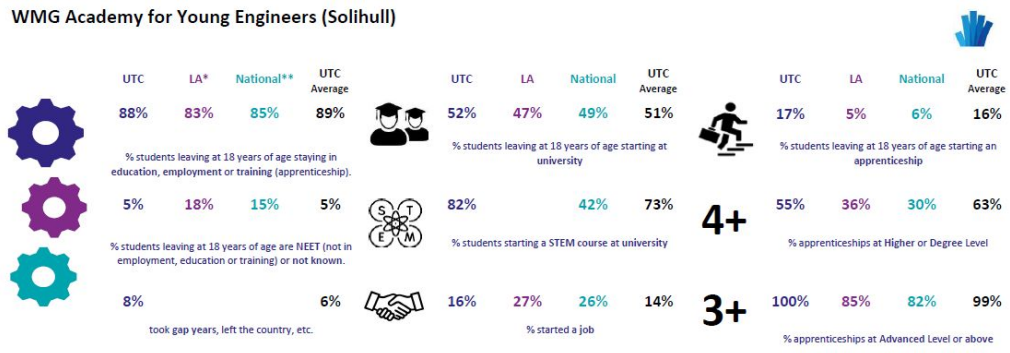
PROUDEST ACHIEVEMENT

Overcoming challenges and discovering my true career aspirations. I am proud of having the confidence to change direction from engineering to business management and set ambitious goals for my future career and business ventures.

FAVOURITE WMGA MEMORY

Spending time with friends, working on engineering projects and enjoying the unique learning environment at WMGA.

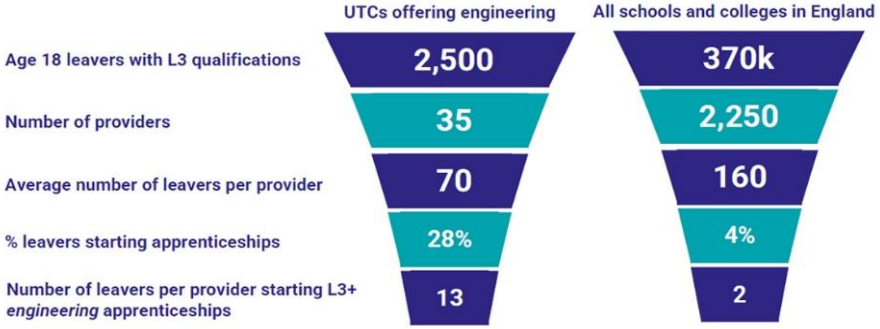
WMG is part of the UTC network and the Baker Dearing Trust. The UTC network was set up in 2006 by Lord Baker who wanted a better provision for technical education; there are now approximately 40 UTC's across the country. The infographic below highlights how UTCs enhance students' skills, improve their employability, and support their future destinations.



* Solihull local authority average for level 3 leavers from mainstream schools and colleges (summer 2023 - latest)

** National average for Level 3 leavers from mainstream schools and colleges (summer 2023 - latest)

UTC track record with engineering apprenticeships



Skills and employability crisis

70% of parents believe primary and secondary education doesn't teach children about the real-life application of the subjects they learn about – IET Engineering Kids Futures (2022)

Employers struggle to fill digital vacancies as only one in 10 workers possess the skills, report finds

Experts say skills shortage stems from rapidly evolving technology and the structure of the UK workforce

NHS staff shortages in England could exceed 570,000 by 2036, leaked document warns

Exclusive: workplace plan sent to ministers says deficit will rise rapidly from current 154,000 if current trends continue

Muddled policies putting UK's lead in creative industries at risk, peers warn

Report criticises indifference to sector's potential and calls for new approach to address skills shortages

Why are young people not prepared for the jobs of the future?

The UK is ranked 64th globally in skills development

81% of UK bosses say digital skills gap is hurting business



SUMMER HUDSON

CLASS OF 2024

APPRENTICE CIVIL ENGINEER
ARCADIS

CAREER JOURNEY

Summer joined Arcadis in September 2024 as an Apprentice Civil Engineer within the Rail Civils and Structures team. Her experience has included work on HS2 projects across quality assurance, technical reviews and engineering design activities. She has contributed to the development of drawings, specifications and schedules for infrastructure assets while gaining exposure to a wide range of engineering disciplines and project environments.

ADVICE TO STUDENTS...

"Be proactive. Look for opportunities for personal and professional development, and take advantage of as many as you can."

PROUDEST ACHIEVEMENT

Securing my Civil Engineering apprenticeship, becoming more independent in the workplace and being awarded the ICE QUEST Scholarship in March 2026.

FAVOURITE WMGA MEMORY

Being involved in Enrichment opportunities, especially building the mini land rover.

DESTINATIONS

WHERE DO OUR SIXTH FORM STUDENTS GO?

H&K Hall & Kay Fire Engineering

DESIGN ENGINEERING, HIGHER APPRENTICESHIP

LIVERPOOL JOHN MOORES UNIVERSITY

PRODUCT DESIGN ENGINEERING, CIVIL ENGINEERING

ROYAL NAVY

MARINE ENGINEERING, ADVANCED APPRENTICESHIP

arm

HARDWARE ENGINEER, DEGREE APPRENTICESHIP

ROLLS ROYCE

MACHINIST, ADVANCED APPRENTICESHIP

Birmingham Precision Engineering.

MACHINIST, ADVANCED APPRENTICESHIP

ROYAL AIR FORCE

WEAPON SYSTEMS OPERATOR, ADVANCED APPRENTICESHIP
AVIONICS, ADVANCED APPRENTICESHIP

ARCADIS

CIVIL ENGINEERING, DEGREE APPRENTICESHIP

CPW Where buildings come alive

PUBLIC HEALTH ENGINEER, HIGHER APPRENTICESHIP

Cadent Your Gas Network

QUANTITY SURVEYING, DEGREE APPRENTICESHIP

Aston University BIRMINGHAM UK

BIOMEDICAL ENGINEERING

BIRMINGHAM CITY University

CIVIL ENGINEERING, COMPUTER SCIENCE WITH PLACEMENT YEAR

UNIVERSITY OF HULL

COMPUTER SCIENCE

UNIVERSITY OF WOLVERHAMPTON

MOTORSPORT WITH PLACEMENT YEAR
PHARMACOLOGY

Coventry University

AUTOMOTIVE ENGINEERING, AEROSPACE SYSTEMS ENGINEERING, CIVIL ENGINEERING, MECHANICAL

HGV ENGINEERING TECHNICIAN, ADVANCED APPRENTICESHIP

SUCCESS STORIES



Jack studied the BTEC National Extended Diploma in Engineering, achieving Distinction* Distinction* Distinction*. He has secured a place at Oxford Brookes University to study a degree in Motorsport Engineering.



Princess studied BTEC Business, achieving a Distinction, A Level Mathematics (grade B), A Level Computer Science (grade A), and the Extended Project Qualification (grade B). She has secured a place on the Amazon Degree Apprenticeship with Queen Mary University of London.



Romaya studied Double Engineering, Product Design, and an EPQ, achieving Distinction Distinction in Double Engineering, a C in Product Design, and an E in her EPQ. She has secured an apprenticeship with Babcock as a Naval Architect.



Robert studied the BTEC National Diploma in Engineering and the OCR Level 3 Cambridge Technical Extended Certificate in IT, achieving Distinction* Distinction in Engineering and Distinction in IT. He has secured a place at Northumbria University to study a degree in Computer Science.

Noah studied A Level English Literature and Language (grade C), BTEC Art and Design (Distinction), and BTEC IT (Distinction). He has secured a place at the University of Birmingham to study a degree in English.





JACOB RACE

CLASS OF 2022

ENGINEERING AIRCRAFT TECHNICIAN AVIONICS
ROYAL AIR FORCE

CAREER JOURNEY

Jacob began his Royal Air Force apprenticeship immediately after leaving WMG, completing medical, fitness and aptitude assessments before undertaking basic training at RAF Halton. He then completed 15 months of specialist avionics training, followed by further qualifications on the Typhoon aircraft system. Having successfully completed his apprenticeship, Jacob now works as a fully qualified Avionics Technician with the RAF, supporting the Typhoon Mission Support Centre.

ADVICE TO STUDENTS...

"Work hard and achieve good grades, as this opens up more pathways after education. It's better to have five doors to choose from than only one."

PROUDEST ACHIEVEMENT

Building a successful career for myself. WMG gave me the tools and opportunities I needed, but it was up to me to apply what I learned and make the most of them. I'm proud of the career I have built through hard work and determination.

FAVOURITE WMGA MEMORY

Building friendships that have lasted beyond school and creating memories that I still look back on today.

ENRICHMENT

At WMG 6th Form, we believe education extends beyond the classroom. Our Enrichment Program is designed to foster personal growth, teamwork, and practical skills, giving students the chance to develop in areas that excite them. We offer a wide range of enrichment activities that cater to diverse interests and passions, including Sport, STEM, and creative pursuits. Whether it's honing athletic ability, exploring innovative engineering projects, or participating in collaborative problem-solving challenges, every student has the opportunity to engage in experiences that broaden their horizons. These activities not only support academic success but also promote essential life skills like leadership, resilience, and teamwork preparing our students to thrive in a dynamic world.





BOSCH

FIRST LEGO LEAGUE CHALLENGE

WMG
Academy for Young
engineers
Solihull

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