YOUR PATHWAY TO

ELECTRICAL INSTALLATION, ENGINEERING AND MOTOR VEHICLE

2024/25

Loughborough COLLEGE est. 1909

COURSE LIST

ELECTRICAL INSTALLATION

T LEVELS

ENGINEERING

SPACE ENGINEERING

MOTOR VEHICLE

THIS IS JUST A SNAPSHOT

Visit our website

www.loucoll.ac.uk

for more detailed info about all our courses

Keep up-to-date:

YOU'LL BE TRAINED IN OUR PURPOSE-BUILT TECHNOLOGY CENTRE, IN SOME OF THE BEST WORKSHOPS IN THE EAST MIDLANDS, OFFERING ACCESS TO INDUSTRY-STANDARD MACHINERY AND TOOLS.

Throughout your course, you'll have plenty of opportunities for work placements, through close working relationships with local and national employers, including RWE and Preci Spark.

On top of practical training in realistic working environments, you'll attend talks from various guest speakers, to get a real feel for what it's like working in industry.

Your tutors have extensive experience in all manner of technical industries, having worked as self-employed electricians and senior engineering managers. But a course at Loughborough College doesn't just prepare you to hit the ground running in the world of work, we also make sure you're ready to study at higher levels in a variety of disciplines.

STUDYING WITH US, YOU WILL BENEFIT FROM:

- Advanced machine shop
- Fabrication & welding workshop
- Electronics workshop
- Advanced electrical installation facility
- CAD suite and 3D printer
- Full MOT testing station
- Two race vehicles with a dedicated workshop
- Industry connections with the National Space Academy

FEES & FUNDING

Funding your course may be easier than you think. To see if you qualify for funding support with your tuition fees, see the table below:

Please refer to the coloured columns in the table below if you are:

- In receipt of JSA or ESA or Universal Credits OR
- Unemployed and in receipt of means tested benefits OR
- Employed and earn less than £20,319 annual gross salary

AGE AND STUDENT CIRCUMSTANCE									
COURSE LEVEL	16-18	19-23 AND RECEIVING BENEFITS/LOW INCOME		19-23		24+ AND RECEIVING BENEFIT/LOW INCOME		24+	
		First time studying this qualification	Completed a qualification at this level previously	First time studying this qualification	Completed a qualification at this level previously	First time studying this qualification	Completed a qualification at this level previously	First time studying this qualification	Completed a qualification at this level previously
ESOL	★	★	★	★	★	★	★	★	★
ENTRY LEVEL	★	★	★	★	★	★	★	★	★
ELIGIBLE LEVEL 1	★	★	★	★	★	★	★	★	★
ELIGIBLE LEVEL 2	★	★	★	★	★	★	★	★	★
ELIGIBLE LEVEL 3	★	★	★	★	★	★	★	★	★
LEVEL 3 FREE COURSES FOR JOBS OFFER	★	★	★	★	★	★	★	★	★

★ Eligible for funding, no fee to pay

★ Not eligible for funding, likely to have to pay

★ Not eligible for free funding, however Advanced Learner Loans are an option instead

This information is based on current government funding guidelines for September 2024 entry, and are subject to change at any time.

PLEASE NOTE:

The table provides generic funding guidance.

To ensure that you are entitled to funding, we will fully assess your eligibility prior to enrolling you.

Please ensure that you provide all prior qualifications held when asked to do so, as the college will retrospectively charge tuition fees should differing circumstances come to light.

Some courses are defined as full cost and as such do not qualify for free tuition.

Other courses are also not eligible for adult funding.

All of the above information applies to students who have resided in the UK/EEA for the past 3 years and are eligible for home funding.

APPLICATION PROCESS

1

APPLY

The first step in joining Loughborough College is to **submit an application form**, this can be done online or via a paper form. After receiving this, we will acknowledge receipt of your application.

2

HAVE YOU GIVEN US ALL OF THE NECESSARY INFORMATION?

Predicted Grades – you need to provide us with your predicted grades so that we can ensure you are applying for a suitable course and level. For A Levels applicants, where this is not provided your application will be put on hold.

Fee Status – We may ask you to complete and return a Fee Status questionnaire based on your Nationality or your right to remain in the country.

Are your course choices right for you? – where your predicted grades indicate that the course choice(s) are not appropriate, we reserve the right to amend this, where a suitable choice is available within the same area.

3

APPLICANT EVENT

In order to secure a place at Loughborough College, you must first **attend an Applicant Event** for your chosen course(s). **Your invite will be sent via email** so please ensure you check your spam/trash folders regularly.

Where you are unable to attend, it is important that we are notified beforehand (details on how to do this will be included in the email invite) so that we can invite you in to the next available event.

N.B. If an applicant doesn't attend two events in a row, without notifying us beforehand, then we will automatically assume that they are no longer interested and their application will be withdrawn.

4

OFFERS

After attending an Applicant Event, the course leader will make a suitable course offer and this will be sent out to you. In order to secure a place on the chosen course, the acceptance of place form must be completed and returned to us within the **specified** timeframe.

Applicants who do not accept their offer may still be considered, however priority will be given to those who accepted their offer in the **specified** timeframe.

5

PRE-PROGRAMME

In order to secure a place on the chosen course, students must then **attend** a Pre-Programme experience (taster day) OR notify us with a satisfactory explanation as to why they are unable to attend. These events are **likely to be** in **late June/ early July** and they are really important for students to attend to enable them to get a taste of what being a student at Loughborough College is like.

Sadly however this event is not aimed at Parents/Guardians/Carers. Sorry – all the fun goes to our students for this one!

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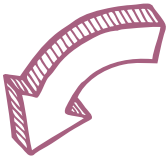


REGISTRATION AND ENROLMENT

First you will be invited to complete an Online Registration, where you will be asked to log in and provide us with your personal details. You must also provide us with ID evidence and an appropriate photograph of yourself for your student ID badge.

Then on **National Results Day (Thursday 22nd August 2024)** you will be asked to log in again and upload proof of your results.

On, or shortly after, National Results Day you will be invited in to a Sign Up event with your chosen course area and this is where you formally sign up for your course. You will meet with a member of the teaching team who will assess your results and discuss appropriate courses.

If you do not get the grades that you are expecting then please don't worry! We will work with you to help you find an alternative option.

ELECTRICAL INSTALLATION
LEVEL 2 EAL DIPLOMA

THIS ONE-YEAR, FULL TIME COURSE IS IDEAL FOR THOSE WANTING TO TAKE THE FIRST STEPS TOWARDS BECOMING AN ELECTRICIAN. STUDENTS WILL SPEND THEIR TIME EQUALLY BETWEEN THE WORKSHOPS AND THE CLASSROOM, LEARNING BOTH THE PRACTICAL SIDE OF ELECTRICAL INSTALLATION WHILST ALSO STUDYING THE TECHNICAL CONTENT OF THE COURSE.

Throughout the qualification, you will have the opportunity to utilise the IET Onsite Guide and also be introduced to how regulations, including BS 7671, affect electrical installation. The qualification covers standard circuits as described in the On-Site Guide.

COURSE CONTENT

- **Health and Safety**
- **Theory and Technology**
- **Methods, Procedures and Requirements**
- **Electrical Installation Craft Skills**
- **Electrical Science and Principles**

DETAILS

ENTRY REQUIREMENTS

Grade 4 or above in English Language, Maths and Science and at least one other GCSE at grade 4.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16–18: FREE!

EHCP: FREE!

Aged 19+: See page 3 for funding options

PROGRESSION OPPORTUNITIES

Upon completion of the Level 2 Diploma, students may be able to progress on to a T Level or apprenticeship.

YOUR CAREER IN **ELECTRICAL INSTALLATION**

ELECTRICIANS FIT, SERVICE AND REPAIR ELECTRICAL EQUIPMENT, CIRCUITS, MACHINERY AND WIRING.

CAREERS

YOUR WORK WILL DEPEND ON WHAT TYPE OF ELECTRICIAN YOU ARE;

INSTALLATION ELECTRICIAN
Services and repairs electrical and installs power systems, lighting, fire protection, security and data networks in buildings.

MAINTENANCE ELECTRICIAN
Checks electrical systems making sure they're working correctly and safely.

ELECTROTECHNICAL PANEL BUILDER
Makes and installs control panels that operate electrical systems in buildings, like heating or alarms.

MACHINE REPAIR AND REWIND ELECTRICIAN
Repair and maintain electrical motors and transformers found in industrial equipment.

HIGHWAY SYSTEMS ELECTRICIAN
Install and maintain street lighting and traffic management systems.

INDUSTRY OPPORTUNITIES

AS A QUALIFIED ELECTRICIAN, YOUR LEARNING AND DEVELOPMENT WILL NOT STOP WITH THE COMPLETION OF YOUR DIPLOMA, APPRENTICESHIP OR NVQ!

As your career progresses and you continue to build on knowledge and valuable experience, you may wish to undertake additional courses aimed at 'continued professional development' such as **regular updates to the wiring regulations, inspection and testing or electric vehicle charging.**

WITH EXPERIENCE, YOU COULD MOVE INTO DESIGN ENGINEERING, SITE OR PROJECT MANAGEMENT, CONSULTANCY WORK OR TRAINING. YOU COULD ALSO SET UP YOUR OWN BUSINESS.

T-LEVELS

THE NEXT LEVEL QUALIFICATION

T Levels were launched in 2020 to provide an opportunity for students to complete a high-quality technical education. T Levels were designed with employers to prepare students for jobs in industry that employers are looking for.

They follow GCSEs and are equivalent to three A Levels. T Levels offer an alternative to A Levels, Apprenticeships or other post 16 courses and ensure that you gain the knowledge and skills you need to move into skilled work, an apprenticeship or further study.

They bring classroom learning (80% of the course) and an extended industry placement (20% of the course) together on a programme designed with businesses and employers.

T LEVEL **CONSTRUCTION (ELECTRICAL INSTALLATION)**

ON THE CONSTRUCTION T LEVEL, YOU'LL LEARN A WIDE RANGE OF KNOWLEDGE ON TOPICS, NEEDED TO BE SUCCESSFUL IN THE GROWING CONSTRUCTION INDUSTRY, SUCH AS THE BUILT ENVIRONMENT HISTORY, DIGITAL TECHNOLOGY, BUILDING SERVICES ENGINEERING (BSE) SYSTEMS, DESIGN, SUSTAINABILITY, TOOLS, EQUIPMENT AND MATERIALS.

In the second year, you will specialise in **Electrotechnical Engineering**. Studying and practicing this branch of the construction industry will help you to develop specialist knowledge and skills to progress into a range of job roles including Electrician, PAT Tester, Installation Engineer and Electrical Maintenance Engineer.

COURSE CONTENT

YEAR 1:

Core: Knowledge and understanding of contexts, concepts and theories of the construction industry

- **Employer Set Project**
- **Industry Placement**

YEAR 2:

- **Specialise in Key Areas of Electrotechnical Engineering (Electrical Installation)**
- **Continuation of Industry Placement with an External Construction Industry Employer**

DETAILS

ENTRY REQUIREMENTS

GCSE English Language at grade 5.

GCSE Maths at grade 5.

And 3 other GCSEs at grade 4 or above.

A previous study of construction is not a requirement; however, you should have an interest in construction and be prepared to discuss this further at interview.

Please note: if you do not meet the entry requirements, you may be eligible to study a T Level Transition programme with us.

DURATION

2 years

PROGRESSION OPPORTUNITIES

Progress to University:
You can use the UCAS points you achieve as a result of completing your T Level to continue your studies at university.

Enter Employment:
You can use the skills, knowledge and experience you have gained to start working in the construction industry.

Apprenticeship:
There are many opportunities offered through apprenticeships that allow you to carry on learning (20%) whilst spending most of your time (80%) furthering your skills in the workplace.

T LEVEL **ENGINEERING AND MANUFACTURING – ELECTRICAL AND ELECTRONIC**

THE PURPOSE OF THIS SPECIALISM IS FOR YOU TO KNOW AND UNDERSTAND ELECTRICAL AND ELECTRONIC COMPONENTS AND SYSTEMS, AND UNDERTAKE KEY PROCEDURES FOR MAINTENANCE, INSTALLATION AND REPAIR.

You will have the opportunity to plan, perform and evaluate your work whilst utilising a range of materials, tools and equipment.

COURSE CONTENT

YEAR 1:
Core: Knowledge and understanding of contexts, concepts and theories of the construction industry

- **Employer Set Project**
- **Industry Placement**

YEAR 2:
You will develop your knowledge and understanding of, and skills in:

- **Construction and Operation of Standard Power Conversion Systems**
- **Component Classification, Numbering/Referencing Systems**
- **How Components are Removed, Replaced and Repaired**
- **Plan and Prepare Electrical and Electronic Maintenance Activities using Analysis and Evaluation**
- **Use Tools, Equipment, Machinery and Technology Safely and Effectively**

DETAILS

ENTRY REQUIREMENTS

GCSE English Language at grade 5.

GCSE Maths at grade 6.

2 Science GCSEs at grades 55

And any other GCSE at grade 4 or above.

A previous study of engineering is not a requirement; however, you should have an interest in engineering and be prepared to discuss this further at interview.

DURATION

2 years

PROGRESSION OPPORTUNITIES

Progress to University:
You can use the UCAS points you achieve as a result of completing your T Level to continue your studies at university.

Enter Employment:
You can use the skills, knowledge and experience you have gained to start working in the construction industry.

Apprenticeship:
There are many opportunities offered through Apprenticeships that allow you to carry on learning (20%) whilst spending most of your time (80%) furthering your skills in the workplace.

T LEVEL **ENGINEERING AND MANUFACTURING – MECHANICAL ENGINEERING TECHNOLOGIES**

THE PURPOSE OF THIS SPECIALISM IS FOR YOU TO KNOW AND UNDERSTAND MECHANICAL ENGINEERING SYSTEMS COMMONLY USED IN INDUSTRY.

You will have the opportunity to plan and undertake maintenance, fault finding, commissioning, testing and repair activities on mechanical systems, and complete associated documentation. You will plan, perform and evaluate their work whilst utilising a range of materials, tools, equipment and machinery.

COURSE CONTENT

YEAR 1:
Core: Knowledge and understanding of contexts, concepts and theories of the construction industry

- **Employer Set Project**
- **Industry Placement**

YEAR 2:
You will develop your knowledge and understanding of, and skills in:

- **Mechanical Principles and Systems**
- **Component Classification, Numbering/Referencing Systems**
- **How Components are Removed, Replaced and Repaired**
- **Plan and Prepare Mechanical Maintenance Activities using Evaluation**
- **Use Tools, Equipment, Machinery and Technology Safely and Effectively**

DETAILS

ENTRY REQUIREMENTS

GCSE English Language at grade 5.

GCSE Maths at grade 6.

2 Science GCSEs at grades 55

And any other GCSE at grade 4 or above.

A previous study of engineering is not a requirement; however, you should have an interest in engineering and be prepared to discuss this further at interview.

DURATION

2 years

PROGRESSION OPPORTUNITIES

Progress to University:
You can use the UCAS points you achieve as a result of completing your T Level to continue your studies at university.

Enter Employment:
You can use the skills, knowledge and experience you have gained to start working in the construction industry.

Apprenticeship:
There are many opportunities offered through Apprenticeships that allow you to carry on learning (20%) whilst spending most of your time (80%) furthering your skills in the workplace.

ELECTRICAL INSTALLATION LEARNERS SPARK NEW CONNECTIONS WITH INDUSTRY MEMBERSHIPS

Students and apprentices on our Electrical courses have recently taken new steps to grow their industry understanding and connections by joining industry leader, the **National Inspection Council for Electrical Installation Contracting (NICEIC)** student memberships.

The membership, which offers a host of benefits to students and apprentices undertaking an electrical qualification, supports the continued journeys of learners as they go on to become certified electrical contractors.

Engineers from NICEIC visited the College last month to discuss the benefits of student memberships. Talking with learners, they shared details of the careers advice and support the memberships offer, including access to an exclusive NICEIC app, which houses over 35 technical reference guides and tools. The app is a sought-after industry tool and learners have already started to reap the benefits of their memberships.

Ellis Hazell, a first year JTL apprentice, said, **"The visit was so interesting and informative. The opportunities available through the NICEIC membership are so motivating and they have inspired me to do more to succeed in my studies."**

NICEIC currently certifies over 38,000 businesses, which are all assessed regularly to ensure they comply with the highest standards of technical and safety regulations. As part of this certification, members receive access to a wide range of high-quality tools, support, and services, and becoming a member allows students to expand their connections within the industry.

NICEIC Area Engineer **Philip Sanders**, who visited the College commented, **"As the nation races towards a net-zero horizon, the demand for electrical contractors will continue to grow, providing vast opportunities for those skilled in this industry."**

YOUR CAREER IN **ENGINEERING**

IF YOU LIKE TO KNOW HOW THINGS WORK, AND HAVE AN INTEREST IN ALL KINDS OF ELECTRICAL AND MECHANICAL TECHNOLOGIES, A CAREER IN ENGINEERING COULD BE JUST WHAT YOU'RE LOOKING FOR.

INDUSTRY STATS

EXPERIENCED ENGINEERS COULD EARN UP TO

£60k

PER YEAR

NEARLY

5.7 MILLION

EMPLOYEES IN THE UK WORK IN ENGINEERING ENTERPRISES

CAREERS

ENGINEERING MAINTENANCE TECHNICIAN
£18,000–£40,000
Services and repairs electrical and mechanical equipment used in a variety of industries.

ELECTRONICS ENGINEER
£21,000–£40,000
Designs, develops and tests components, devices, systems or equipment that use electricity as part of their source of power.

AEROSPACE ENGINEER
£20,000–£60,000
Develops, tests, produces, and maintains aircraft and/or space technology components.

ENGINEERING ACCOUNTS FOR 19% OF TOTAL UK EMPLOYMENT

OTHER JOB PROSPECTS
(WITH TRAINING AND EXPERIENCE)

CRAFT MACHINIST
£13,500-£30,000

DOMESTIC APPLIANCE SERVICE ENGINEER
£17,000-£27,000

MECHANICAL ENGINEERING TECHNICIAN
Starting around **£39,000**

WELDER
£22,000-£45,000

LIFT ENGINEER
£18,000-£35,000

MAINTENANCE FITTER
£16,000-£35,000

MECHANICAL ENGINEER
£20,000-£52,000

ENGINEERING LEVEL 2 BTEC CERTIFICATE

THIS COURSE GIVES LEARNERS THE OPPORTUNITY TO LEARN KEY ENGINEERING PRINCIPLES, ALLOWING YOU TO DEVELOP YOUR KNOWLEDGE THROUGH PRACTICAL ACTIVITIES AND THEORY SESSIONS.

Learners study a combination of mechanical and electronic engineering disciplines in our dedicated workshops and classrooms. Learners will achieve a BTEC Level 2 Certificate in Engineering in Engineering (equivalent to one GCSE).

COURSE CONTENT

- **A Combination of Mechanical - and Electrical/Electronic-Based Units**
- **Engineering Maths and Science**
- **Health and Safety**
- **Engineering Design**
- **Practical Workshop Experience**
- **Opportunity to Re-Sit GCSE English**

DETAILS

ENTRY REQUIREMENTS

Four GCSEs at grade D/3 (including English Language) and grade 4 in mathematics.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16–18: FREE!

Aged 19+: See page 3 for funding options

PROGRESSION OPPORTUNITIES

Successful completion of this qualification will allow you to progress on to the Level 3 programme or potentially an advanced Engineering Apprenticeship where you can earn a wage whilst you learn.

ENGINEERING LEVEL 3
BTEC FOUNDATION/EXTENDED DIPLOMA

THE COURSE IS DESIGNED TO PROVIDE KNOWLEDGE, SKILLS, AND PRACTICAL EXPERIENCE IN ENGINEERING AND ALLOWS YOU TO GAIN A BROAD KNOWLEDGE OF MECHANICAL AND ELECTRICAL DISCIPLINES.

The course is assessed by a combination of examinations and written assignments. The course consists of classroom based engineering theory including maths materials science and design. Practical elements include Solidworks CAD package, hand drawing, electronics and 1.5 hours per week in our engineering workshop gaining vital practical experience in machining and hand fitting techniques.

COURSE CONTENT

A Combination of Electrical and Mechanical-based units

Mandatory units include:

- **Engineering Principles**
- **Business in Engineering**
- **Working Safely as a Team**
- **Product Design**

Practical Workshop Experience

Optional Work Experience/Industrial Placement

DETAILS

ENTRY REQUIREMENTS

A BTEC First Certificate in Engineering at Merit grade, plus GCSE English Language and Maths at grade C/4 or above.

OR

Five GCSEs at grade C/4 or above, including English Language, Maths, and a Science.

Mature applicants with relevant industrial experience are encouraged to apply.

START DATE

September

END DATE

June

DURATION

1-2 years

COURSE COST

Aged 16–18: FREE!

Aged 19+: See page 3 for funding options

PROGRESSION OPPORTUNITIES

In your first year you complete the BTEC Level 3 National Foundation Diploma in Engineering (1.5 A Level equivalent). You may have the option to progress to year 2 where you will work to achieve the BTEC Level 3 National Extended Diploma in Engineering.

After two years this qualification is equivalent to 3 A Levels, which enables you to study Engineering or a related subject at degree level. Alternative progression routes include Higher or Degree Apprenticeships or full-time employment in the engineering industry.

SPACE ENGINEERING
ENHANCED A LEVEL PROGRAMME

THIS COURSE IS THE ONLY ONE OF ITS KIND IN THE UK, DEVELOPED FOR YOUNG PEOPLE WHO WISH TO STUDY AN EXCITING PROGRAMME LEADING TO HIGHER EDUCATION AND EMPLOYMENT IN ENGINEERING, MATHS OR PHYSICS.

This course is a hybrid programme that includes A Level Maths and Physics with BTEC Level 3 National Diploma in Engineering. In addition to this 'four A Levels' equivalent programme you will study at masterclasses led by experts from the space industry at the National Space Centre in Leicester and benefit from trips, work experience and guest speakers. Our Space Engineers are taught in a bespoke group allowing teaching within the context of space.

COURSE CONTENT

- **BTEC Level 3 National Diploma in Engineering (covering mechanical, electrical, electronic, design, CAD, materials, and maths for engineering)**
- **A Level Mathematics**
- **A Level Physics**
- **Masterclasses at the National Space Centre**
- **Trips and visits to space and engineering institutions**

DETAILS

ENTRY REQUIREMENTS

Five GCSEs, including Maths at grade A/7, Science Double Award at grade AA/77 (or Triple Award at grade AAB/776), English Language at grade B/6, plus another GCSE at grade B/6. Where Physics is studied separately grade in Physics must be A/7.

You must be highly motivated and committed to a unique and intense programme of learning.

START DATE

September

END DATE

June

DURATION

2 years

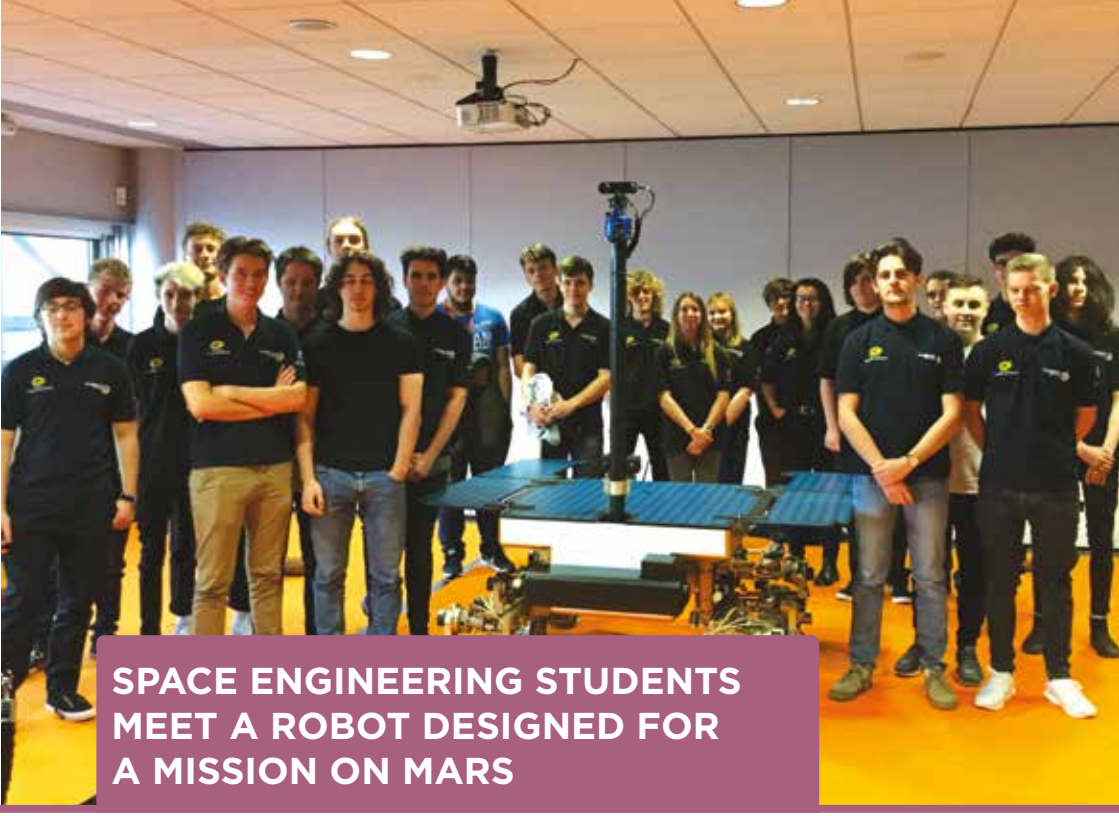
COURSE COST

Aged 16–18: FREE!

Aged 19+: See page 3 for funding options

PROGRESSION OPPORTUNITIES

This programme will lead to a wide range of degree courses including physics, mathematics, and engineering degrees, as well as to employment opportunities in the engineering industries.



SPACE ENGINEERING STUDENTS MEET A ROBOT DESIGNED FOR A MISSION ON MARS

The group, all studying on the unique course delivered by the College in association with the National Space Academy, were introduced to 'Bruno' by Airbus Defence and Space's Paul Meacham, Lead Systems Engineer for the ExoMars Rover Vehicle Project.

The stripped-down prototype of the planned robotic rover belongs to a trio, also including Bridget and Bryan, which is part of the international ExoMars programme - led by the European Space Agency and the Russian Roscosmos State Corporation.

During its six month mission the rover is set to cover 70 metres each day and will be capable of drilling two metres below the surface of Mars in order to extract samples for analysis in its on-board laboratory, looking for biochemical signatures of life.

"Our Space Engineering students were amazed by seeing the ExoMars Rover in action," said Nicola Stevens, Curriculum Manager for Engineering at Loughborough College.

"They knew about Bruno and the planned mission to Mars but to see it up close – for example how the rover dealt with travelling over rocks by having flexible wheels – really brought the engineering solutions to life.

"The second year students have been tasked with designing and building a rover to land on Mars so their conversations with the Airbus engineers have proven invaluable."

Sophie Allan, Head of Teaching and Learning at the National Space Academy, added: **"Students were given a fantastic insight into the engineering challenges faced by a rover on the planet and some of the unique features that make the ExoMars rover capable of detecting evidence, if it exists, of life having once been present on Mars."**

AUTOMOTIVE MAINTENANCE
LEVEL 1 AWARD/CERTIFICATE/DIPLOMA (IMI)

IF YOU ARE A SCHOOL LEAVER AND YOU HAVE LITTLE OR NO EXPERIENCE OF THE MOTOR INDUSTRY THEN THIS IMI COURSE WILL PROVIDE YOU WITH A SOLID FOUNDATION TO PROGRESS TOWARDS AN INDUSTRY-RECOGNISED QUALIFICATION.

This programme uses a practical approach, with classroom delivery kept to a minimum in order to gain an understanding of motor vehicle technology from a workshop environment. It also provides the Maths, English, and work skills you'll need to successfully progress into the world of work or further study.

COURSE CONTENT

- **Basic Motor Vehicle Repair and Principles**
- **Health and Safety in the Workplace**
- **Team Development**
- **English and Maths**

DETAILS

ENTRY REQUIREMENTS

Two GCSEs (neither maths or English achieved)

Please note: This course is aimed at learners aged 16-18 and adult learners with an Educational Health Care Plan (EHCP) identifying it as their chosen course. Adult learners are encouraged to contact Student Recruitment who will look at alternative Level 2 courses or if necessary Adult English and Maths courses that will enable them to join a Level 2 course afterwards.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16–18: FREE!

EHCP: FREE!

Aged 19+: See page 3 for funding options

As part of the course, we will provide overalls, safety boots and safety glasses. There is a course fee of £50 for all learning materials, including E-books.

PROGRESSION OPPORTUNITIES

There is the opportunity to progress on to further Motor Vehicle qualifications for those that demonstrate diagnostic skills and have suitable references from a previous course.

YOUR CAREER IN **MOTOR VEHICLE**

IF YOU LIKE WORKING WITH YOUR HANDS, AND HAVE A PASSION FOR CARS OR BIKES, AN EXCITING CAREER IN THE MOTOR VEHICLE INDUSTRY COULD BE FOR YOU.

30 MILLION VEHICLES ARE SERVICED EACH YEAR IN THE UK

CAREERS

MOTOR MECHANIC
£18,000–£35,000
Working on all vehicle mechanics and electrics, from engines and exhaust systems to air conditioning and security.

VEHICLE MASTER TECHNICIAN
£30,000–£41,000
A vehicle master technician will have a comprehensive knowledge of mechanical, computerised and electronic systems, diagnosing and repairing complex faults.

MOTORSPORT ENGINEER
£22,000–£60,000
Responsible for the design, testing, production or maintenance of racing vehicles. You may specialise in designing and testing components or fine tuning and testing vehicles.

INDUSTRY STATS

AN EXPERIENCED MOTOR VEHICLE ENGINEER, YOU COULD EARN UP TO

£60k
PER YEAR

265,000
SKILLED ENTRANTS ARE REQUIRED ANNUALLY TO MEET DEMAND FOR ENGINEERING ENTERPRISES THROUGH TO 2024

OTHER JOB PROSPECTS

MOTORSPORT TECHNICIAN
£33,000 - £35,000

TYRE TECHNICIAN
£22,000
Trainee: **£7,000-£9,000**
Qualified: **£11,500-£14,500**
Experienced: around **£26,000**

MOTOR VEHICLE FITTER
£17,000-£29,000

MOTOR VEHICLE TECHNICIAN
£25,000-£35,000

VEHICLE MECHANICS ARE NEEDED IN A VARIETY OF SECTORS, FROM MOT TESTING AND BREAKDOWN RECOVERY TO RACING AND THE ARMED FORCES

VEHICLE COMPONENT FITTING
LEVEL 2 CERTIFICATE (IMI)

THIS COURSE IS AIMED AT ANYONE WHO IS INTERESTED IN LEARNING ABOUT MOTOR VEHICLE GARAGE OPERATIONS WITH THE AIM TO GAINING EMPLOYMENT WITHIN THE AUTOMOTIVE INDUSTRY.

For this qualification, learners must complete:

Online Assessments
Each mandatory group has an online assessment. Optional and additional units chosen may also require online assessments to be taken.

Core Unit (synoptic assessment)
It assesses both skills and knowledge obtained from Mandatory units

Portfolio of evidence
This is required to prove learning outcomes are achieved through practical and written tasks performed. IMI provides sample support material of practical and written tasks for optional use.

COURSE CONTENT

- **Health, Safety and Good Housekeeping**
- **Materials, Fabrications, Tools and Measuring**
- **Braking Systems**
- **Petrol Engines**
- **Body Mechanical Electrical and Trim**

You will also be retaking either your maths or English GCSE.

DETAILS

ENTRY REQUIREMENTS
Four GCSEs at grade 3/D or above including either maths or English Language at grade 4/C

START DATE
September

END DATE
June

DURATION
1 year

COURSE COST
Aged 16-18: FREE!
EHCP: FREE!
Aged 19+: See page 3 for funding options

PROGRESSION OPPORTUNITIES
There is the opportunity to progress on to further Motor Vehicle qualifications for those that demonstrate diagnostic skills and have suitable references from a previous course.

LIGHT VEHICLE MAINTENANCE AND REPAIR
LEVEL 2 DIPLOMA (IMI)

THIS COURSE IS AIMED AT ANYBODY INTERESTED IN LEARNING ABOUT THE FULL RANGE OF ROUTINE VEHICLE FITTING PROCEDURES. IT PROVIDES ESSENTIAL KNOWLEDGE AND SKILLS FOR VEHICLE MECHANICS WORKING ON A VARIETY OF VEHICLES.

It covers both theoretical and practical aspects of vehicle maintenance and repair, with assessments consisting of practical demonstration, written assignments, and online tests. The course focuses on employability skills to aid your progression.

COURSE CONTENT

- **Routine maintenance on a variety of vehicles**
- **Engine and lubrication systems**
- **Cooling systems**
- **Inspecting and replacing light vehicle transmission systems**
- **Exhaust components**
- **Suspension systems, batteries, charging systems, and braking systems**
- **Body electrical systems**

DETAILS

ENTRY REQUIREMENTS

Four GCSEs at grade 4/C or above including English and maths

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16–18: FREE!

EHCP: FREE!

Aged 19+: See page 3 for funding options

As part of the course, we will provide overalls, safety boots and safety glasses. There is a course fee of £50 for all learning materials, including E-books

PROGRESSION OPPORTUNITIES

There is the opportunity to progress on to a Level 3 course for those that demonstrate good diagnostic skills and have suitable references from a previous course.

ADVANCED MANUFACTURING ENGINEERING (MOTORSPORT) BTEC LEVEL 3 EXTENDED CERTIFICATE/DIPLOMA

THIS COURSE COVERS THE TECHNICAL NEEDS OF THE MOTORSPORT INDUSTRY, PROVIDING ESSENTIAL KNOWLEDGE FOR COMPETITION MAINTENANCE AND REPAIR TECHNICIANS.

You will work with and develop a competition-specification car for the area and be involved with stripping and rebuilding race engines, scrutineering, data logging, porting, polishing, and much more.

COURSE CONTENT

- **Diagnosis and rectification of engine and component faults**
- **Operation of vehicle chassis systems**
- **Light vehicle suspension, steering, and braking systems**
- **Function and operation of vehicle petrol injection systems**
- **Operation and maintenance of light vehicle transmission systems**

DETAILS

ENTRY REQUIREMENTS

Five GCSEs at grade 5 or above including Maths, English Language and Science

START DATE

September

END DATE

June

DURATION

2 years

COURSE COST

Aged 16–18: FREE!

EHCP: FREE!

Aged 19+: See page 3 for funding options

As part of the course, we will provide overalls, safety boots and safety glasses. There is a course fee of £50 for all learning materials, including E-books.

PROGRESSION OPPORTUNITIES

Progression opportunities include industrial placements with motorsport teams which can lead to full-time employment or entry into the automotive sector. You may choose to enter an apprenticeship or full-time employment at a higher level or progress on to a degree level course.

COLLEGE CLINCHES DOUBLE RALLYCROSS TITLE

A team from Loughborough College has clinched two national rallycross class championship titles after an exceptional first season.

Motorsport lecturer **Alex Fletcher** raced to victory in the College-built Honda Civic Type R, supported by BTEC motorsport students as his pit crew, as he won the BTRDA Clubmans Modified Rallycross Championship at Knockhill, Scotland, at the weekend.

In addition, fellow Motorsport lecturer **Gary Cook**, also claimed the championship title in the Super Modified category, driving his own car which is maintained by students.

Alex's car was built by college students as part of their studies who transformed it from a road car to a race car, meeting specific regulations to compete in the BTRDA Rallycross. It was a year-long project that really put the students in the driving seat of the project - from ordering and sourcing parts, to budget management and full-on engineering skills.

Alex, never failed to finish below second place throughout the eight-race season and won his final race on Sunday to bring the title back to Loughborough.

He said: **"I'm absolutely delighted. It has been an amazing team effort and is such a brilliant experience for our students to get authentic experience of being a real-life race mechanic.**

"The students come away with us on race days and are responsible for maintaining the vehicle whilst developing their on-trend skills, so it's a genuinely enriching experience that will help them throughout their studies and beyond.

Student **Ewan Johnstone**, a second year Motorsport Student, said: **"We learn so much more being at the track and having hands on experience, also as it's not just a test day it's a full race day, the pressure is really on. It's very exciting and the experience is incredibly valuable for my progression towards a career in Motorsport Engineering that no other college offers. It's the icing on the cake that I was part of the team on the day we clinched the championship!"**

LIGHT VEHICLE MAINTENANCE AND REPAIR
LEVEL 3 DIPLOMA (IMI)

THIS QUALIFICATION COVERS THE TECHNICAL NEEDS OF TODAY'S MOTOR VEHICLE REPAIR INDUSTRY, WORKING ON ALL TYPES OF LIGHT VEHICLES. IT'S IDEAL FOR ANYONE LOOKING TO BE A VEHICLE TECHNICIAN OR MOT TESTER. CHALLENGE YOURSELF IN A PRACTICAL WORKING ENVIRONMENT.

Covering all light vehicle technologies at an advanced level, learners will be expected to carry out practical diagnostic fault-finding tasks. As a practical-based course, it provides the essential knowledge to be a service technician working on cars and vans in all types of garages, dealerships, and maintenance depots.

There are also opportunities to undertake air-conditioning manual handling certification and potential to upskill to be able to work on EV and hybrid vehicles, to further enhance your employability.

COURSE CONTENT

- **Light Vehicle Diagnosis and Repair Principles of Engine Systems**
- **Braking Systems**
- **Steering Systems**
- **Suspension Systems**
- **Transmission**
- **Electrical Systems**
- **Work Experience**

DETAILS

ENTRY REQUIREMENTS

Five GCSEs at grade 4/C including maths and English Language or successful completion of the Level 2 Diploma in Light Vehicle Maintenance and Repair with a satisfactory reference

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16-18: FREE!

EHCP: FREE!

Aged 19+: See page 3 for funding options

As part of the course, we will provide overalls, safety boots and safety glasses. There is a course fee of £50 for all learning materials, including E-books.

PROGRESSION

Progression opportunities include further study or employment in the automotive industry ina range roles including vehicle technician or MOT tester.

FEATURES & BENEFITS

Level 1 **TECHNOLOGY STUDIES**

- Access to a range of state-of-the-art workshops and equipment that replicate realistic work environments
- Work experience opportunities

Level 2 and Level 3 **ENGINEERING**

- Access to the best workshops in the East Midlands
- Expert, professional teaching staff
- High-quality training programmes
- Opportunities for work placements, along with close working relationships with local employers

Level 2 **ELECTRICAL INSTALLATION**

- Access to the best workshops in the East Midlands
- Expert, professional teaching staff from the sector
- High-quality training programmes
- Opportunities for work placements, along with close working relationships with JTL

Foundation, Level 2 and Level 3 **VEHICLE MAINTENANCE**

- Industry-standard workshops
- Expert teaching staff
- Various trips and visits
- Guest speakers

Loughborough COLLEGE DRIVES SUCCESS IN STEM

STEM

At Loughborough College, we actively promote STEM (Science, Technology, Engineering and Maths) subjects and learning experiences for all learners and support progression into careers in these industries. We believe STEM education is essential for the evolving world that we live in today.

Working closely with schools, universities and employers, our aim is to inspire students to consider STEM degree courses and careers, and to develop important transferable skills such as critical thinking, problem-solving and teamwork, that are applicable across a wide range of professions.

Level 3 BTEC Extended Diploma
ADVANCED MANUFACTURING ENGINEERING (MOTORSPORT)

This course will give you an exciting opportunity to work with and develop a competition specification car for the area and be involved with stripping and rebuilding race engines, scrutineering, data logging, porting, polishing, and much more.

The course also offers: Industry-standard workshops, expert teaching staff and various trips and visits.

Enhanced A Level Programme
SPACE ENGINEERING

- Classes at the National Space Centre and Loughborough College
- Masterclasses led by experts from the space industry
- Industry trips, visits, and speakers
- Opportunities for work experience

T Level **CONSTRUCTION**

The Construction T Level has been designed with leading businesses and employers in the construction industry. Thorough understanding of concepts and theories and the opportunity to solve real life problems in the construction industry whilst receiving valuable experience of learning, working side by side with the experts in the industry. Benefit from specialist knowledge and skills of electrical and electronic systems engineering.

FAQs

I NEED EXTRA SUPPORT WITH MY STUDIES. WHAT HELP CAN I GET AT LOUGHBOROUGH COLLEGE?

There are staff on hand to help you with your academic progress. Our specialist advisors can also help with additional requirements, and we have a fantastic team of learning support assistants who can provide in-class assistance.

WHAT FUNDING IS AVAILABLE FOR TUITION FEES?

There are no tuition fees for full-time students under 19 who are enrolled on a Further Education course. If you're over 18, see page 3 for guidance.

WHAT HAPPENS IF I DON'T GET THE GRADES I WAS EXPECTING?

If you don't get your predicted results, don't panic! Our Student Recruitment team is on hand to help, and we'll make sure that we find another course that is suitable for you.

CAN I WORK A PART-TIME JOB WHILST STUDYING?

We recommend no more than 8-9 working hours per week. Research has shown that 10+ hours can negatively affect academic achievement, so make sure you're prioritising correctly.

CAN I SPEAK TO SOMEBODY ABOUT THE COURSES YOU OFFER?

Yes, we have a dedicated Student Recruitment advisory team who will be happy to provide you with the information on our courses and answer any questions you may have. Give us a call on **01509 618375** or e-mail us at **admissions@loucoll.ac.uk**

CAN YOU ONLY STUDY ONE T LEVEL?
Yes. Each T Level is a full-time programme that lasts two years.

DO I HAVE TO PAY TO COMPLETE A T LEVEL?
Like A Levels, there are no tuition fees to study a T Level if you start before you are 19.

HOW MANY EMPLOYERS WILL I WORK WITH AS PART OF MY INDUSTRY PLACEMENT?
It is likely that you will work with at least 2 employers as part of your industry placement so that you have the opportunity to experience different working environments.

DOES THE COLLEGE OFFER FINANCIAL HELP? We offer a bursary fund to help with additional costs associated with your course, such as transport, kit or uniform, and childcare costs. Eligibility is based on household income. You don't need to request a bursary application form, as they are sent to everyone who has applied to study with us (usually in July/August). Further information is available here: **www.loucoll.ac.uk/student-services**

CAN I CHOOSE TO DO ANOTHER COURSE IF I CHANGE MY MIND?
Yes. You can change your course before enrolment by contacting the Student Recruitment team on **01509 618375**.
If you've already started your course and find that it isn't right for you, don't worry; there will be opportunities for you to discuss suitable alternatives.

WHAT'S THE DEADLINE FOR SUBMITTING AN APPLICATION?
As a college we would advise you to try and apply by Friday 26th April 2024. This will allow you to get the most out of what we can offer you, helping you to make the important decisions about the courses you're interested in. We will however continue to consider applications made after this date.

Loughborough COLLEGE

DRIVES SUCCESS IN

STEM

Loughborough COLLEGE est. 1909

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Details can be subject to change without notice, including the provision of courses, times, and dates, and fees and charges can be levied.