

**YOUR CAREER IN
ELECTRICAL
INSTALLATION,
ENGINEERING
& MOTOR
VEHICLE**



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THIS IS JUST A SNAPSHOT

Visit our website

www.loucoll.ac.uk

for course-specific entry
criteria and more detailed
info about all our courses

**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, npower and Preci Spark.

On top of practical training in realistic working environments, you'll attend talks from various guest speakers, so you can 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 National Space Academy

FEES & FUNDING

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

- In receipt of JSA or ESA (WRAG) OR
- Unemployed and on other benefits OR
- Employed and earn less than £17,004.00 annual gross salary

AGE AND STUDENT CIRCUMSTANCE									
COURSE LEVEL	16-18	19-23 AND RECEIVING BENEFITS/LOW INCOME		19-23		24+ AND RECEIVING BENEFITS/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	★	★	★	★	★	★	★	★	★
ELIGIBLE LEVEL 4	★	★	★	★	★	★	★	★	★

★ Free! ★ Course fees payable ★ Advanced learning loan available

This information is based on current government funding guidelines for September 2020 entry and may be subject to change.

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.

APPLICATION PROCESS

1

RESEARCH

Have a look on our website at what courses we offer, visit our online open days and request course specific booklets.

2

SUBMIT AN APPLICATION

Initially, we can only log up to two course choices for your application. Please apply using the Loughborough College website or PS16 if your school provides this service.

3

ACKNOWLEDGEMENT

We'll send you an acknowledgement email to let you know that we've processed your application and what you can expect next. You should receive this within 5 working days of submitting your application.



4

ATTEND AN APPLICANT EVENT

We'll invite you to an event specifically for the course(s) you're interested in. You will need to attend an Applicant event in order to get an offer to study with us. *This event may be an online/digital event so you may not need to come into college, details will be clarified nearer the time.



5

RECEIVE AN OFFER

Once you've attended your applicant event, you'll receive a conditional offer. Conditions will be based on meeting the course entry requirements. We'll also send you an 'accept my place' certificate. In order to secure your conditional place, please complete and return the certificate within 30 days so we know whether you'd like to accept your offer.



**ONCE YOU'VE ACCEPTED
YOUR OFFER...**

6 

**APPLICANT TASTER DAY
(PRE-PROGRAMME EXPERIENCE)***

At the start of the summer holidays, you will take part in activities relating to your chosen course and experience what it's like to be a student at Loughborough College. Attending this event is a necessary step in securing your place at college.

*This may also be an online/digital event so you may not need to come into college, details will be clarified nearer the time.

9 

REGISTRATION AND ENROLMENT

Once you've received your GCSE results, you'll be invited to speak to a tutor online and sign up for your course. Specific details will be sent to you in your induction pack.

As course places are limited, if you are unable to make an event when invited, please contact:

eventreply@lough.ac.uk
01509 618375

7  

FUNDING & SUPPORT

Over the summer, we'll send you information about our Bursary Fund. Everyone who has applied will automatically be sent an application form. All you need to do is complete and return the form to us with the appropriate evidence. Aged 19 or over? We'll send you a fees and funding pack, including information about funding options and Advanced Learning Loans.

8  

INDUCTION INFORMATION

We'll send you an information pack with everything you'll need to get you ready for the start of your course in September. This will include your enrolment allocation, course costs, and kit and uniform ordering information (if appropriate).

10
**START YOUR
COURSE!**

 Sent by e-mail

 Sent by post

 On website

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 On-Site 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.

DETAILS

ENTRY REQUIREMENTS

Four GCSEs at grade D/3 or above, including Maths and English language.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16–18: FREE!

EHCP: FREE!

Aged 19+: See p3 for funding options

PROGRESSION OPPORTUNITIES

Upon completion of the Level 2 Diploma, students will be eligible for the EAL Level 3 Diploma in Electrical Installation, so long as they have also achieved a grade C/4 or above in Maths.

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

YOUR CAREER IN ELECTRICAL INSTALLATION

ELECTRICIANS FIT, SERVICE AND
FIX 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 install power systems, lighting, fire protection, security and data networks in buildings.

MAINTENANCE ELECTRICIAN

Check electrical systems make sure they're working correctly and safely.

ELECTROTECHNICAL PANEL BUILDER

Make and install control panels that operate electrical systems in buildings, like heating or alarm.

MACHINE REPAIR AND REWIND ELECTRICIAN

Fix 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.

ELECTRICAL INSTALLATION

LEVEL 3

THIS ONE-YEAR COURSE PROVIDES AN OPPORTUNITY FOR LEARNERS TO GAIN WORKSHOP SKILLS ALONG WITH CLASSROOM STUDY.

It is ideal for those looking to train as a fully-skilled electrician, as it is a similar programme of study to electrical apprenticeships.

As a full-time student, you will be put through CSCS card training and the Requirements for Electrical Installations IET Wiring Regulations (17th Edition) as part of your programme of study.

COURSE CONTENT

- Job planning
- Health & Safety
- Renewable Energies
- Electrical Installation Techniques
- Electrical Design
- Electrical Testing & Fault Finding
- Principles of Electrical Science

DETAILS

ENTRY REQUIREMENTS

Five GCSEs at grade C/4, including Maths and English Language, and at least a Pass grade in the EAL Level 2 Diploma in Electrical Installation.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16-18: FREE!

Aged 19+: See p3 for funding options

PROGRESSION OPPORTUNITIES

Many of our learners go on to secure apprenticeships as 3rd year entrants as they can demonstrate to potential employers, level 3 electrical skills and progression to being fully skilled in a shorter timeframe.



SARAH JONES

“ I left school without any qualifications, and worked on production lines for years.

“After I had my daughter, I wanted to be more of a role model for her. I went to an open day at Loughborough to see what was available in electrical installation, as that’s the industry my dad worked in.

“I did Functional Skills qualifications and GCSEs in English and Maths, starting the electrical course as soon as I could. I’m coming to the end of my first year now, and it’s been absolutely great.

“There’s been so much support available, and the tutors have been

really accommodating and encouraging, especially when it’s come to balancing my studies with family life.

“I’ve particularly enjoyed the practical side of things—the facilities are a really high standard, and when making stuff from scratch, you get to use everything you would in the industry. I’ll never forget putting together my first lighting circuit, and it actually working!

“After the course, my plan is to get straight into work as soon as possible, maybe through an NVQ or an apprenticeship.”

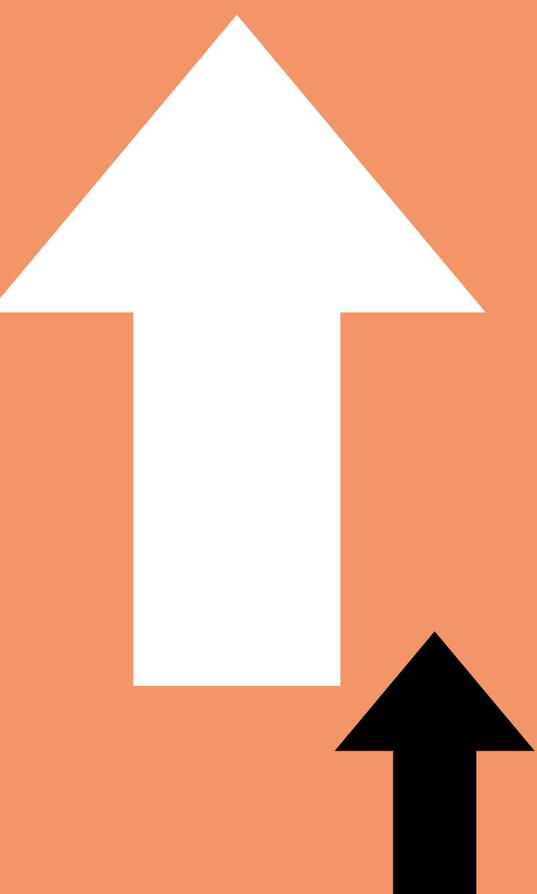
NEW

FOR

SEPTEMBER 2021

T-LEVELS

THE NEXT LEVEL QUALIFICATION



T Levels are a brand new, two-year qualification designed with employers to give you a head start towards the future you want.

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 2nd 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: 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
- 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.

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.

TECHNOLOGY STUDIES

LEVEL 1

THIS ONE-YEAR, FULL-TIME PROGRAMME IS AIMED AT LEARNERS AGED 16-18 WHO KNOW THAT THEY WANT A HIGHLY-PRACTICAL PROGRAMME OF LEARNING. THE PROGRAMME AIMS TO DEVELOP BROAD-BASED ELECTRICAL INSTALLATION AND MAINTENANCE SKILLS, ALONGSIDE MECHANICAL AND FABRICATION ENGINEERING SKILLS.

The programme also provides the maths, English, and work skills you'll need to successfully progress into work or further study.

The course includes a blend of practical and theory units designed to develop your skills in:

- **Installing Electrical Equipment**
- **Domestic and Commercial Rewiring**
- **Fabrication and Welding**
- **Machining**
- **Hand-Fitting**

In addition to studying Functional Skills English and Maths, you'll also study work skills and learn to learn.

DETAILS

ENTRY REQUIREMENTS

Two GCSEs and a positive 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

PROGRESSION OPPORTUNITIES

The broad, practical focus of this programme provides Apprenticeship progression opportunities into a range of work environments, including electrical contracting, engineering, and manufacturing organisations. The blend of practical and academic skills acquired will also assist you in progressing to further Level 2 and 3 full-time courses.



OLYMPIAN ENCOURAGES LOUGHBOROUGH COLLEGE STUDENTS TO STAY ON TRACK FOR SUCCESS

Loughborough College students were inspired to stay on track for success when they got the chance to meet sporting legend Kriss Akabusi MBE.

The electrical installation students were thrilled with their celebrity one on one from the British Olympic and Commonwealth gold medal-winning athlete during a visit to major industry event CEF Live 2019.

“Kriss is a legendary winner from the global sporting stage and now a television presenter and motivational speaker so he is a fantastically inspiring role model for our students,” said Loughborough College engineering technician Keith Large.

“They were very excited to spend time with him and to hear him talk about the dedication and commitment needed to be a winner in your profession – and he encouraged them to stay focused on their studies and their goals.”

The Birmingham NEC event brought together industry experts and leading suppliers as well as showcasing cutting edge technology.

“The learners got to see the very latest innovations, such as in lighting control, electrical waste recycling and electric vehicle charging – and we met a range of experts in their fields who are keen to visit us at the College and talk to our students,” added Keith.

“The event offered a glimpse into the vast array of career paths on offer in the electrical industry – many of which our students did not even know existed. It was a great day and they all thoroughly enjoyed themselves.”

Loughborough College electrical installation programme lead Luke Milner said: **“Taking our learners to an industry event with so much educational content on offer further enhanced their knowledge to take with them into the workplace.”**

PERFORMING ENGINEERING OPERATIONS

LEVEL 2 (NVQ)

THIS COURSE GIVES LEARNERS THE OPPORTUNITY TO LEARN ENGINEERING AND ELECTRICAL SKILLS WHILE IMPROVING THEIR MATHS AND ENGLISH GRADES.

Learners focus on developing the craft skills needed to work in the Electrical and Engineering sector by studying a combination of engineering and electrical disciplines in our dedicated workshops and also compiling a portfolio.

This course includes a blend of practical and theory units designed to develop your skills in:

- **Engineering Health & Safety**
- **Producing Components Using Hand Fitting, Turning and Fabrication**
- **Installing Electrical Equipment**
- **Domestic and Commercial Rewiring**
- **Compiling a Portfolio**
- **Reading and Communicating Technical Information**

DETAILS

ENTRY REQUIREMENTS

Three GCSEs at grade D/3 and a positive reference.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16-18: FREE!

Aged 19+: See p3 for funding options

PROGRESSION OPPORTUNITIES

On completion of the course you will have the opportunity to progress onto the Level 2 BTEC in Engineering, offered here at Loughborough College and/or provide the basis from which to apply for an engineering apprenticeship.

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.

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

INDUSTRY STATS

EXPERIENCED ENGINEERS COULD
EARN UP TO

£60k
PER YEAR

NEARLY

5.7 MILLION

EMPLOYEES IN THE UK WORK IN
ENGINEERING ENTERPRISES

OTHER JOB PROSPECTS

CONSTRUCTION CRAFT WORKER

£16,000- £27,000 with training
and experience.

CRAFT MACHINIST

£13,500-£30,000 with training
and experience

DOMESTIC APPLIANCE

SERVICE ENGINEER

£17,000-£27,000 with experience.

MECHANICAL ENGINEERING

TECHNICIAN

Starting around **£39,000**

HEATING & VENTILATION

ENGINEER

£18,000-£35,000

LIFT ENGINEER

£18,000-£35,000

MAINTENANCE FITTER

£16,000-£35,000

ENGINEERING

LEVEL 2 (BTEC)

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 First Extended Certificate in Engineering (equivalent to 2 GCSEs).

DETAILS

ENTRY REQUIREMENTS

Four GCSEs at grade D/3 or above.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16–18: FREE!

Aged 19+: See p3 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.

COURSE CONTENT

- A combination of mechanical- and electrical/electronic-based units
- Engineering Maths and Science
- Health and Safety
- Engineering principles
- Practical experience
- Opportunity to re-sit GCSE Maths and/or English

ENGINEERING

LEVEL 3 (BTEC)

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. You will gain vital practical experience of machining, hand fitting and welding in the engineering workshop.

For the mathematically able (A/7 or above in GCSE Mathematics) there is an option to study A-level Mathematics along-side this course.

COURSE CONTENT

A Combination of Electrical and Mechanical-based units

Mandatory units include:

- **Engineering Principles**
- **Business in Engineering**
- **Health and Safety**
- **Product Design**

Practical Workshop Experience

Work Experience/ Industrial Placement

DETAILS

ENTRY REQUIREMENTS

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

OR

Four GCSEs at grade C/4 or above, including English, 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 p3 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.

VEHICLE MAINTENANCE (TRANSPORT) LEVEL 1

IF YOU HAVE LITTLE OR NO EXPERIENCE OF THE MOTOR INDUSTRY THEN THIS IMI CERTIFICATE WILL PROVIDE YOU WITH A SOLID FOUNDATION TO PROGRESS TOWARDS AND 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 work or further study.

COURSE CONTENT

- **Basic motor vehicle repair principles**
- **Health and safety in the workplace**
- **Team development**
- **English and Maths**

DETAILS

ENTRY REQUIREMENTS

Two GCSEs and a positive reference.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16-18: FREE!

EHCP: FREE!

Aged 19+: See p3 for funding options

PROGRESSION OPPORTUNITIES

There is the opportunity to progress on to a Level 2 course for those that demonstrate advanced 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 £25,000-£32,500

A vehicle master technician will have a comprehensive knowledge of mechanical, computerised and electronic systems, diagnosing and repairing complex faults.

MOTORSPORT ENGINEER £18,000-£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
£22,000

TYRE TECHNICIAN
£22,000

Trainee: £7,000-£9,000

Qualified: £11,500-£14,500

Experienced: around £20,000

MOTOR VEHICLE FITTER
£13,000-£29,000

VALETER
£11,000-£20,000

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

LIGHT VEHICLE MAINTENANCE & REPAIR

LEVEL 2 (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, phase tests, 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 clutches
- Exhaust components
- Suspension systems, batteries, charging systems, and braking systems
- Body electrical systems

DETAILS

ENTRY REQUIREMENTS

At least four GCSEs at grade D/3 or above, including English and Maths.

OR

A Level 1 automotive qualification, plus Functional Skills English and Maths at Level 2.

OR

Substantial experience of vehicle fitting.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16–18: FREE!

Aged 19+: See p3 for funding options

PROGRESSION OPPORTUNITIES

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

LIGHT VEHICLE MAINTENANCE AND REPAIR LEVEL 3 (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.

COURSE CONTENT

- **Light vehicle diagnosis and repair principles of engine systems**
- **Braking and steering systems**
- **Suspension systems**
- **Transmission**
- **Electrical systems**
- **Work experience/industrial placement**

DETAILS

ENTRY REQUIREMENTS

At least five GCSEs at grade C/4 or above, including English and Maths.

OR

A Level 2 Diploma in Light Vehicle Maintenance and Repair

OR

Substantial prior attainment in the automotive industry.

You will also need to have a satisfactory reference from your previous course.

START DATE

September

END DATE

June

DURATION

1 year

COURSE COST

Aged 16–18: FREE!

Aged 19+: See p3 for funding options

PROGRESSION OPPORTUNITIES

Further study or enter into employment in the automotive industry as, for example, a vehicle technician or MOT tester.

VEHICLE TECHNOLOGY (MOTORSPORT) LEVEL 3 (BTEC)

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**
- **Chassis system faults and operations**
- **Professional practice and logistics for motorsports**
- **Light vehicle suspension, steering, and braking systems**
- **Motorsport vehicle preparation and inspection**
- **Motorsport workshop practices**

DETAILS

ENTRY REQUIREMENTS

At least five GCSEs at grade C/4 or above, including English and Maths.

OR

A Level 2 Diploma with GCSE Maths at grade C/4.

START DATE

September

END DATE

June

DURATION

1- 2 years

COURSE COST

Aged 16-18: FREE!

Aged 19+: See p3 for funding options

PROGRESSION OPPORTUNITIES

Upon completion of this course, you may choose to enter straight into employment or progress on to a degree-level course.



TOM WOOD
Racing Driver

BBC EAST MIDLANDS TODAY

BBC TV HIGHLIGHTS UNIQUE MOTORSPORT UK PROGRAMME AT LOUGHBOROUGH COLLEGE

BBC television has been highlighting the country's only course designed for racing drivers, based at Loughborough College.

The unique programme, created by Motorsport UK in association with the College, offers the skills needed to make it as a professional - and BBC East Midlands Today Sport reporter Angela Rafferty visited the College to discover more.

Loughborough College Motorsport student Tom Wood drives an Aston Martin: **"There are kids out there going to college and kicking a ball around with their mates at the weekend ... I do pinch myself. I can't believe how fortunate I am to be here."**

Hannah Lang, who says her mum was, "a little bit shocked. She wanted a dancer and she got a racing driver", talks about gaining detailed motor vehicle knowledge, which enables drivers to understand their car and effectively feed back to their teams.

The two year course at Loughborough College also supports the aspirations of 40 drivers with one on one coach reviews,

analyzing their on track performance and looking at where it might be improved. In addition there is training in nutrition, psychology and communication. Fitness testing is with Porsche. Eliot Challifour, from their Human Performance Centre, explained: **"It's not only training for performance it's also training to be more injury-resilient and it's training for health as well."**

Mental health is a major priority in racing's high pressure environment. Hugh Gilmore, a sport psychology consultant working with the young drivers, said: "They are not just athletes, they are people and they have to think of their mental and physical wellbeing and their life outside sport, so it's about achieving that balance."

"Twenty or thirty years ago, it was all about sacrificing everything to be a racing driver or rally driver. Now it's completely different. The teams don't want that. You can't survive in the sport unless you have an education," said Greg Symes competitor pathway manager at Motorsport UK.

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 program 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 at grade B/6, plus another GCSE at grade B/6.

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

START DATE

September

END DATE

June

DURATION

2 years

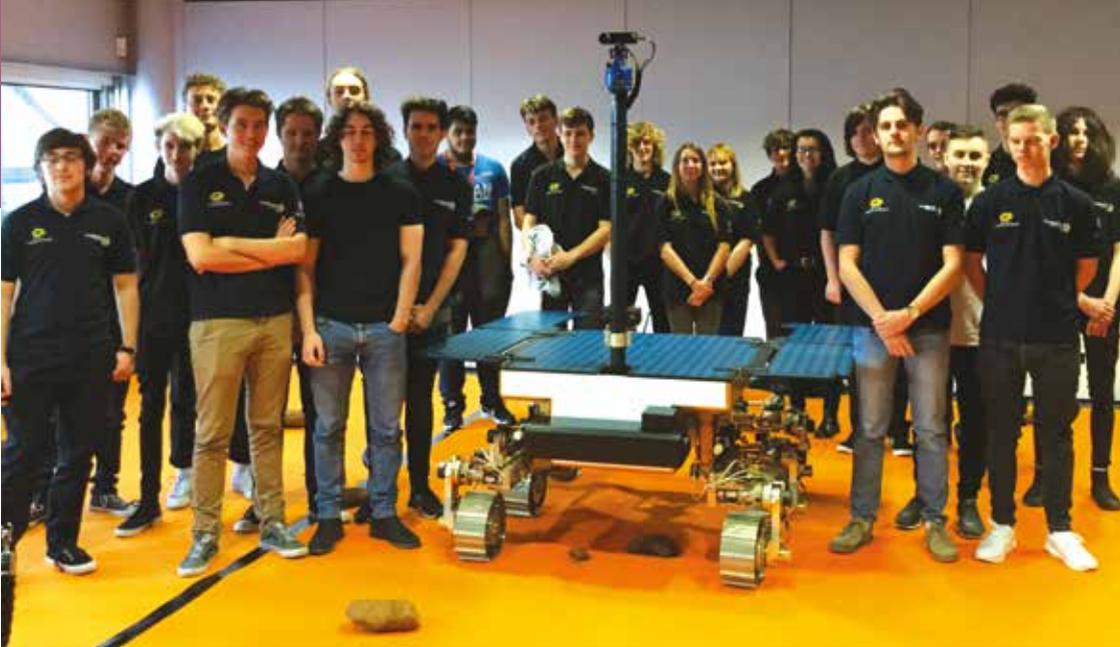
COURSE COST

Aged 16-18: FREE!

Aged 19+: See p3 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 Dr Zoe Washington, Space Engineering course leader 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."

Andy McMurray, 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."**

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 ELECTRICAL INSTALLATION

- As a full-time student, you will be put through CSCS card training and the Requirements for Electrical Installations IET Wiring Regulations (17th Edition) as part of your programme of study.
- 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 JTL and the AEMT

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 JTL and the AEMT

Level 1, Level 2 and Level 3 VEHICLE MAINTENANCE

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

Enhanced A Level Programme in 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

Level 3 BTEC Extended Diploma in VEHICLE TECHNOLOGY (MOTORSPORTS)

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
- various trips and visits

T Level in Construction

The Construction T level has been designed with leading businesses and employers in the construction industry and gives a 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 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 **studentrecruitment@loucoll.ac.uk**

CAN YOU ONLY STUDY ONE T LEVEL?

Yes. Each T level is a full-time programme that lasts two years.

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.

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.

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 apply by 28th May 2021. 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. However, we will however continue to consider applications made after this date.

Loughborough
COLLEGE

DRIVES SUCCESS IN

STEM

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LINKEDIN

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Disclaimer:

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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.

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