

# ELECTRICAL & ELECTRONIC ENGINEERING



Level 2 BTEC Extended Certificate in Engineering (Electrical Pathway)

Level 3 BTEC National Extended Diploma in Electrical & Electronic Engineering

## COURSE FEATURES

- Multimillion pound Centre of Excellence in Engineering.
- Brand new state-of-the-art labs including AI, robotics, automation technologies.
- Quality work experience opportunities.
- Extensive links with employers including Sellafeld Ltd, MBDA, ISG and HUSCO.

If you are good at maths, science and IT and want a career in engineering, then this course could be for you. Electrical engineers design, build and maintain electrical control systems, machinery and equipment. You will need to be good at solving problems, structuring your workload and working as part of a team. Electronics engineers design and develop the systems used by machines and equipment in lots of industries, from mobile communications and computing to aerospace.

## COURSE LENGTH

The Level 2 course is full-time for one academic year.  
Level 3 are full-time for two academic years.

## CAREER PROSPECTS

- Aerospace engineer £25k - £60k+
- Communications engineer £22k - £60k+
- Electrical engineering technician £26k - £54k
- Electrical engineer £20k - £60k
- Project engineer
- Senior chartered engineers earn up to £70k a year



## WHAT WILL I STUDY?

### MANDATORY UNITS INCLUDE:

Engineering Principles; Delivery of Engineering Processes Safely as a Team; Engineering Product Design and Manufacture; Applied Commercial and Quality Principles in Engineering: A Specialist Engineering Project; Microcontroller Systems for Engineers; Calculus to Solve Engineering Problems.

### OPTIONAL UNITS INCLUDE:

Electronic Printed Circuit Board Design and Manufacture; Electronic Devices and Circuits; Electronic Measurement and Testing of Circuits; Further Engineering Mathematics; Three Phase Electrical Systems; Programmable Logic Controllers; Additive Manufacturing Processes; Power and Sustainability.

## HOW WILL I BE ASSESSED?

Using a variety of methods including: practical and written assignments; observations; written tests and examinations.

## WHAT CAN I PROGRESS TO?

Many continue to study one of our HND Engineering courses, higher or degree apprenticeships or engineering degrees at other universities.



If you have any queries please contact our Admissions Team: **01942 761 111**  
or email: **applications@wigan-leigh.ac.uk**