

# Engineering

## Engineering: T Level Electrical Design and Development Full-time

### In Brief

#### Start Date / Duration

This course will commence in September and take two years to complete.

#### Entry Requirements

Five GCSEs at grade 4 or above including Maths and English at grade 5 or above.

#### You will achieve

T Level in Design and Development: Electrical and Electronic Engineering.

### Course Overview

**This qualification focuses on the development of knowledge and skills needed to work in the engineering and manufacturing industry. It will prepare you to enter the industry through employment or as an apprentice or if you are considering progression to Higher Education.**

This two-year course has been developed in collaboration with leading employers and combines College-based studies in our Engineering department along with a minimum of 45-day industry placement.

### Course Content

- Design methodologies and processes
- Tools, equipment, and materials used in electrical and electronic engineering
- Representations, symbols, conventions, and annotations used in electrical and electronic engineering
- Producing electrical and electronic drawings and representations
- Designing and developing working models
- Testing models and prototypes

### How will I be assessed?

You will complete:

- Two externally set exams covering knowledge from the engineering common core.
- An employer-set project that will consist of a well-defined, real industry-style brief. The brief will be complex and non-routine and will require the use of relevant Maths, English and digital skills.

The brief will give you the chance to demonstrate your knowledge and understanding of the core content and your core skills to solve problems that could occur in the work place.

- An occupational specialism assessment which is composed of a series of practical tasks relating to the specialism at hand. This will take place over a period of time, which will be confirmed when you start your course. By nature of the considerable practical elements, the tasks will generate significant evidence and you will be assessed by an Internal Assessor.

## What Equipment Will I Need?

Writing and drawing equipment and a scientific calculator.

## Where will I study?

Science, Technology, Engineering and Maths (STEM) Centre  
Old Mill Lane  
Barnsley  
S70 2LA

## What can I do next?

See what careers are available in the Engineering [https://www.barnsley.ac.uk/app/uploads/2023/10/Engineering-careers-2023-24.pdf] sector. Use our online careers tool, Career Coach [https://barnsley.lightcastcc.com/?radius=&region=Barnsley] , to find out what your next steps could be.

## How much does the course cost?

### 16 – 18 year olds

Full-time Barnsley College students aged 16-18 years old do not have to pay tuition fees.

## Extra information

### Contact the Information Unit

For further information please contact our friendly Information Team on +44 (0)1226 216 123 or email [info@barnsley.ac.uk](mailto:info@barnsley.ac.uk) [mailto:info@barnsley.ac.uk]

## Want to join Barnsley Sports Academy and the Sports Village?

Barnsley College has a range of sports opportunities for all students to take part in, gain professional training and compete nationally and internationally. We also have a state-of-the-art fitness village, Honeywell Sports Village [https://www.barnsley.ac.uk/shops-services/honeywell-sports-village/] where students can make use of our fitness suite, spinning studio and classes for competitive rates. You don't have to be studying sport to get involved in the Sports Academy [https://www.barnsley.ac.uk/barnsley-sports-academy/].

## Additional Learning Support

Our Additional Learning Support team can provide you with the support you need. Please contact them on +44 (0)1226 216 769.

## English and Maths

Having good English and Maths qualifications are important for most careers and we want to give you the help you need to succeed.

If you are aged 16 – 19 and don't already have a grade C/4 or above in GCSE English and Maths they will automatically be included in your study programme. If you want to work towards higher grades in English and Maths we can help you do that too.

Need a higher level Maths qualification? We offer a [Level 3 Mathematical Studies \(Core Maths\)](#).

This can be added to your study programme.

If you need any further information, please contact our friendly [Information Team](#).

## Disclaimer

Please note we reserve the right to change details without notice. We apologise for any inconvenience this may cause.

**Last updated:** 12th December 2023

### Want to apply?

Visit <https://www.barnsley.ac.uk/apply> to get started

Call us on **01226 216 123**