Bradford College

Working together to transform lives

Enquiries

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T Level in Engineering: Design & Development – Electrical Specialism

Subject Area	Engineering
Course Type	School Leavers
Study Level	Level 3
Delivery Mode	Full-time
Duration	2 Years
Start Date	September 2026
Course Code	PA000825

View on **bradfordcollege.ac.uk**

Course Summary

Are you ready to help shape the future of electrical engineering? The T Level in Design and Development for Engineering – Electrical Specialism at Bradford College is a forward-thinking qualification developed in collaboration with leading employers. It combines classroom-based learning with practical industry experience, preparing you for a successful career in engineering, manufacturing, or further study.

This two-year programme provides a solid foundation in engineering principles, design techniques, and manufacturing processes. In your second year, you will specialise in **Electrical and Electronic Engineering**, gaining in-depth knowledge and hands-on skills that are highly sought after across the sector.

What You Will Learn

- Employer-Led Curriculum: Designed with input from industry to ensure relevance and employability.
- Real-World Experience: Includes a minimum 45-day industry placement working on live engineering projects.
- Excellent Facilities: Access to industry-standard software, 3D printers, and advanced manufacturing equipment.
- Electrical Engineering Focus: Learn about electrical systems, circuit design, testing, and embedded electronics.
- Progression Routes: Pathways into apprenticeships, university, or employment in roles such as Electrical Technician, Design Engineer, or Embedded Systems Developer.

Modules

- Engineering and Manufacturing Fundamentals
- Core Engineering Concepts
- Computer-Aided Design (CAD) and Prototyping
- Electrical Systems and Circuit Design
- Materials Science and Quality Assurance
- Project Management and Team Collaboration
- Practical Engineering Project

Entry Requirements

Five GCSEs at grades 9-4 including: English at grade 5 and Maths at grade 5

Work Experience

During this course you will be required to undertake 45 days of work experience

Progression

Higher-level
apprenticeships in Electrical and Electronic Engineering
University degrees in
Electrical Engineering, Robotics, or Product Design
Employment in
engineering roles across manufacturing, energy, and technology sectors