



# **Mechanical Engineering Apprenticeships**

Prospectus



**Once I completed my apprenticeship, I worked on CNC machines for around six months before going into a Design Engineer role. I'm currently training to become a qualified Design Engineer whilst studying for an engineering degree.**



**Corey Hogg** Trainee Design Engineer, Michell Bearings





# Engineer your future

**Gain hands-on experience and get paid as you work towards your qualifications.**

As a British Engines Group apprentice, you'll work on a variety of exciting projects while being supported by our friendly and experienced team of engineers. We've trained over 1,000 apprentices since 1966 so you're in safe hands!

## **What is an apprenticeship?**

An apprenticeship brings together on the job training and college based learning. On our Manufacturing Apprenticeship, you'll spend four days per week in the business and one day per week at college.

## **Start earning while you learn**

Our engineering apprenticeships offer salaries well above the national apprenticeship wage, with increases every six months until you qualify. Once you're qualified, you could be taken on permanently at one of the group businesses!

# Mechanical Engineering

**Take the first step towards building your engineering career while gaining hands-on experience and getting paid as you learn.**

From manufacturing to design, our North East based engineering apprenticeship covers a range of disciplines, providing endless experiences and opportunities. Our friendly and experienced teams will support you from day one by guiding you through the programme.

The British Engines Apprenticeship+ Scheme is different to other engineering apprenticeships. We're passionate about supporting the next generation of engineering talent, that's why we offer a range of extra experiences to help you develop and learn.

As part of your apprenticeship, you'll learn extra skills, such as offshore survival, and take part in exciting experiences, like working with our off-site teams on a naval submarine. You may also get to complete further qualifications, such as a degree, a HNC or HND in Mechanical Engineering, opening even more career options for your future!

**Choose from six different routes...**





# Manufacturing

4 Years

As a Manufacturing Apprentice, you'll get to try a range of engineering-based activities to develop the hands-on skills you need to become a manufacturing engineer.

You'll spend your first 20 weeks at TDR Training School before joining one of our businesses. From there, you'll spend four days per week in the factory and attend college one day per week.

## What you'll be doing

- Producing parts using CNC machining – precision engineering
- Learning the fundamentals of electrical engineering
- Learning advanced manual turning, milling, drilling, grinding and welding skills
- Developing hand tooling and sheet metal work skills
- Measuring and checking parts
- Carrying out quality checks
- Quality, Health, Safety and Environment (QHSE) training

## Qualifications

- ✓ Level 3 Advanced Manufacturing Engineering Diploma

In years 3 and 4 of your apprenticeship, you could get the option to complete a Level 4 HNC Diploma in Mechanical Engineering, followed by a Level 5 HND Diploma in General Engineering or even a degree!

## Career progression

- Manufacturing Engineer
- Manufacturing Technician
- Team Leader/Supervisor



# Maintenance

4 Years

As a Maintenance Apprentice, you'll support our engineering teams by carrying out maintenance and repair work on a range of industrial machinery.

You'll spend your first 20 weeks at TDR Training School before joining one of our businesses. From there, you'll spend four days per week in the factory and attend college one day per week.

## What you'll be doing

- Installing, maintaining and repairing a range of machinery
- Isolating and testing machinery
- Working on electromechanical and process control systems
- Facilities management
- Quality, Health, Safety and Environment (QHSE) training

## Qualifications

- ✓ Level 3 Maintenance and Operations Engineering Technician Diploma.

In years 3 and 4 of your apprenticeship, you could get the option to complete a Level 4 HNC Diploma in Electrical and Electronic Engineering, followed by a Level 5 HND Diploma in General Engineering, or even a degree!

## Career progression

- Engineering Technician
- Maintenance Engineer/Electrician
- Maintenance Manager
- Production Manager/Director



**I originally chose to do a degree in Maths because I wanted to get into engineering. However, I didn't really enjoy it because it wasn't hands on, so I dropped out.**

**After doing a bit of research, I decided to apply for an apprenticeship. The highlights so far have included transitioning into a working environment and the amazing support I've received!**



**Olivia Knox** Manufacturing Apprentice, CMP Products



# Fitting, Assembly & Test

4 Years

As a Fitting, Assembly and Test Apprentice, you'll work with our team of engineers to produce complex, high value parts, making sure they meet our customers' needs.

You'll spend your first 14 weeks at South Tyneside Marine School before joining one of our businesses. From there, you'll spend four days per week in the factory and attend college one day per week.

## What you'll be doing

- Assembling and producing parts
- Planning resources, tools and equipment
- Testing and calibrating parts
- Carrying out quality checks
- Installing completed parts
- Quality, Health, Safety and Environment (QHSE) training

## Qualifications

- ✓ Level 3 Advanced Manufacturing Engineering Diploma

In years 3 and 4 of your apprenticeship, you could get the option to complete a Level 4 HNC Diploma in Mechanical Engineering, followed by a Level 5 HND Diploma in General Engineering, or even a degree!

## Career progression

- Test Engineer
- Production Engineer
- Assembly, Test and Service Technician
- Operational Manager/Supervisor





As a Design Apprentice, you'll learn how to produce technical designs and drawings for a range of engineering projects.

Depending on your starting qualifications, you'll spend up to 48 weeks at TDR Training School before joining one of our businesses. From there, you'll spend four days per week in the factory and attend college one day per week.

## What you'll be doing

- Developing and designing engineering solutions
- Creating detailed technical drawings using computer aided design (CAD)
- Finding problems and coming up with solutions
- Communicating designs to customers using sketches, technical drawings and reports
- Quality, Health, Safety and Environment (QHSE) training

## Qualifications

- ✓ Level 3 Engineering Design and Draughting Diploma

In years 3 and 4 of your apprenticeship, you could get the option to complete a Level 4 HNC Diploma in Mechanical Engineering, followed by a Level 5 HND Diploma in General Engineering, or even a degree!

## Career progression

- Design Engineer
- Planning Manager
- Sales Applications Engineer
- Operations Manager



# Health, Safety & Environment (HSE)

2 Years

As an HSE Apprentice, you'll work with our health and safety teams, making sure our businesses are maintaining high health, safety and environmental standards that meet legal requirements, customer needs and create a safe working environment.

You'll spend your first 20 weeks at TDR Training School before joining one of our businesses. From there, you'll spend four days per week in the business and attend college one day per week.

## What you'll be doing

- ✔ Learning the importance of HSE
- ✔ Helping to create a HSE strategy
- ✔ Developing HSE control plans
- ✔ Supporting people across the business to improve HSE
- ✔ Solving HSE problems and developing solutions
- ✔ Helping to manage and reduce risks

## Qualifications

- ✔ Level 3 Health Safety and Environment Technician Diploma

You could get the option to do extra training, such as a National Examination Board in Occupational Safety and Health (NEBOSH) General Certificate. Some of our HSE apprentices even go on to do a Level 6 Diploma in Occupational Health and Safety!

## Career progression

- ✔ HSE & Compliance Officer
- ✔ HSE Advisor
- ✔ HSE Manager
- ✔ Head of HSE



# Quality

2 Years

As a Quality Apprentice, you'll work with our quality teams, making sure our businesses are maintaining quality control standards that meet legal requirements and customer needs.

You'll spend time at college before joining one of our businesses. From there, you'll spend four days per week in the business and attend college one day per week.

## What you'll be doing

- Helping to create a quality control strategy
- Contributing to the management of supplier performance
- Planning and conducting audits
- Supporting people across the business to improve quality
- Solving quality control problems and developing solutions

## Qualifications

- ✓ Level 4 Quality Practitioner Diploma

After successfully completing your apprenticeship, you might get the opportunity to do a bachelor's degree!

## Career progression

- Project Quality Engineer
- Supplier Quality Engineer
- Quality Engineer
- Quality Manager

# Benefits

## A great place to start your career. We reward our apprentices...

Not only will you get paid full-time while gaining hands-on experience and qualifications, as a British Engines apprentice, you'll also have access to our range of employee benefits.

Whether you need an urgent GP appointment or fancy starting a new fitness programme, we've got you!



**Wellbeing App**



**Life assurance**



**Mentorship**



**Company pension scheme**



**Hands-on learning**



**Get paid to learn**



**Cycle to Work scheme**



**Industry recognised qualifications**



**Training and development**



**33 days holiday (including bank holidays)**



## **British Engines Apprenticeship Outdoor Activity Week!**

Take part in an exciting outdoor activity week in the Lake District.

As a Mechanical Engineering Apprentice, you'll join your fellow apprentices on an exciting outdoor activity week at Brathay Hall in the Lake District.

During the trip, you'll be challenged to do lots of fun team building activities like canoeing, mountain climbing, ghyll scrambling and zip lining! Working closely with your group, you'll build teamwork, leadership and communication skills while bonding with your work mates and team leaders.



# How To Apply

1

Visit the Apprenticeships page on our website and sign up to be the first to find out when applications open.

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2

Once applications open, visit the jobs section of our website and apply for the apprenticeship role(s) you're interested in.

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3

If successful, you'll be invited to an assessment day at TDR Training School and an interview at one of our businesses.

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4

If your assessment day and interview go well, you'll be offered a place on our apprenticeship scheme!

To get started visit [britishengines.com](https://www.britishengines.com)



# Frequently Asked Questions



## What do I need to apply?

You'll need at least a GCSE grade 4/C in Maths and English. Relevant work experience in an engineering environment would be great, but is not essential. As long as you have a keen interest in engineering, enjoy working with your hands and like being part of a team, you'll be a great fit!

We look for the following skills in a potential apprentice:

- ✔ Strong communication skills
- ✔ Passionate about engineering
- ✔ Good attention to detail
- ✔ Willingness to learn
- ✔ Confident with numbers
- ✔ Enjoys team work
- ✔ Good at problem solving
- ✔ Can think outside the box

## What happens on the assessment day?

The assessment day takes place at TDR Training School in Longbenton, Newcastle. You'll do two tests in Maths and English. If successful, you'll be invited to an interview at one of the British Engines Group businesses.

## What happens after I finish my apprenticeship?

Depending on your performance, you could be offered a permanent position at the group where you'll have the opportunity to develop your career in many different areas of the business. You might also get the opportunity to complete further qualifications, funded by us, such as an HNC, HND, or even a degree!

You may be able to work towards achieving incorporated status in your field of specialism, or progress to chartered status in the future.

## What safety training will I receive?

Everyone at the British Engines Group receives extensive safety training before they start work. Depending on the role, the below training may be provided:

- ✔ Institute Of Health And Safety (IOSH)
- ✔ Working Safely Training
- ✔ Fire Safety Training
- ✔ Lifting & Slings Safety Training
- ✔ Forklift Truck Safety Training
- ✔ Offshore Survival Training
- ✔ DSE Workstation Training
- ✔ Environmental Awareness Training
- ✔ Manual Handling Training
- ✔ Hazardous Substance Awareness Training

