

- Job title:** Summer Placement – Mechanical
- Location:** Wotton-under-Edge, Gloucestershire GL12 8JR
- Duration:** Placements are from June to September for a minimum 8-week, maximum 12-week period
- Salary:** £18,000 pro-rata

## Overview

A mechanical summer placement at Renishaw offers you the chance to work on real engineering projects that can involve elements of component design and modelling, process design, dynamic analysis, design for manufacture, mechanisms and control, and experimental design verification.

Using the latest software applications, in-house development processes, technologies and practical skills can give a real insight into engineering business and how Renishaw develops and manufactures innovative new products.

Your placement will involve working on live projects under the mentorship of our senior managers. As well as gaining hands on experience, you will have the opportunity to connect with people working in the business and discuss your career ambitions and ideas with employees in similar roles.

## What will I be doing?

During your time with Renishaw, you will benefit from first-hand experience of some of the following:

- Blue-sky project research
- Industry standard New Product Development Processes
- Mechanical design
  - Structural design
  - Material selection
  - Stress analysis techniques
  - Thermal optimisation
  - Bending and torsional stiffness
- Process design
  - Mechanism design
  - Materials selection and optimisation
- Dynamics
  - Vibration, shock, etc.
  - Designing for structural stiffness
- Manufacturing techniques
  - Metal casting techniques (sand, die, investment)
  - Injection moulding (plastics, metals)
  - Milling & turning
  - Sheet metal forming
  - Additive manufacturing
  - Design for Manufacture
  - Design for Assembly
- Design Verification
  - Test rig functional design
  - Experimental design and practice
  - Automation and data gathering – may include LabView, ANSYS, MATLAB etc.
- Mechanisms and control
  - Linear motion systems - linear rails, leadscrews, ballscrews
  - Transmission and drive systems – belt drives, gear systems

- o Dynamic couplings – rotary and linear
- o Kinematic couplings
- o Spring systems - coil spring and beam spring characteristics

All of this work will be under the guidance of senior engineers who will help broaden and strengthen your technical and commercial skills.

**What skills and experience do I need?**

Applications are encouraged from highly motivated individuals who are excited by engineering. Renishaw engineers tend to be innovative, organised and passionate about their work both as an individual and as a team member and we are looking for people with similar skills and passion. Could this be you? Be part of an exciting company with a broad portfolio of innovative products and see where engineering can take you.

We are particularly interested to hear from A Level students or undergraduates who are keen to experience the broad range of mechanical engineering challenges faced at a leading engineering company.

Please note: you must have the right to live and work in the EU to apply.

**Where will I be working?**

This role is based at our New Mills headquarters near Wotton-under-Edge in Gloucestershire, you may on occasion be required to travel to other Renishaw sites for work. As Renishaw is based in a semi-rural location, it is essential that applicants have their own form of transport or be willing to relocate to the local area.