

AP Racing is the world's most successful Brake and Clutch supplier to the Motorsport market, providing systems to every F1 championship winner for the past 50 years. AP Racing is also a leading supplier of Brake and Clutch systems to the high-performance automotive OEM and aftermarket.

Following continued success based on ground breaking technologies and quality, AP Racing is entering the next phase of its development both in the race and road sectors.



## Senior Design Engineer - Road Department

**Salary + Benefits, Competitive (depending on experience):**

### Role Description:-

**As a key part of the Road Car Engineering team, your role would include, but not be limited to:**

- Design and development of brake and clutch systems and related products, to a predefined specification, using 3D CAD.
  - Perform Topology Optimisation, design validation and simulation using Finite Element Analysis.
  - Complete calculations to ensure the product is within dimensional, material and performance limits.
- To specify and coordinate suitable product testing, correctly interpret the results and write engineering reports for internal and external (customer) publication.
  - Create part numbers and Bills of Material on the business ERP system.
  - Work closely with the supply base to optimise design for manufacture.
    - Design fixtures and tooling for production and testing.
  - Attend meetings with suppliers and customers, both in the UK and abroad.
    - Help and support less experienced members of the team as required.
  - Support other teams and functions within the business with engineering issues.
  - Complete and maintain accurate documentation and records as required by the business.
- Participate in FMEA activities and compile quality control documentation including manufacturing instructions and control plans.
  - Adhere to the quality and environmental accreditations including ISO9001:2000, IATF16949:2016 and ISO14001:2015.

### Main Requirements:-

The ideal candidate will be qualified to Degree level in Mechanical Engineering or have a suitable alternative engineering qualification, e.g. HNC / HND along with 5+ years experience in a suitable engineering environment.

Specific experience in the automotive industry working with brakes, clutches or drivetrain systems would be an advantage but not essential. The candidate should have a proven design record with an innovative, open-minded approach to solving engineering challenges.

The ability to meet demanding quality and performance requirements to a tight deadline is also required.

Good knowledge of the following software tools would be an advantage but not necessary as training would be given to suitably qualified engineers with experience on other systems.

- SolidWorks / SolidWorks Simulation
  - Altair HyperWorks
- Proficient knowledge of Microsoft Office suite.

Good communication skills, both oral and written, are essential as well as analytical skills, autonomy and the ability to work in a dynamic environment.

**To be considered for an exciting role, please contact [megan.hurley@apracings.co.uk](mailto:megan.hurley@apracings.co.uk) with CV and Salary details.**

**Strictly no agencies please**

