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| **Vacancy Reference no. XXXX**  | **Design Engineer** |
| **Location: Shanghai** **Grade: C** | **OVERVIEW** |
| **Ricardo is a global engineering, strategic and environmental consultancy, founded in 1915 our vision is to maximise efficiency and eliminate waste.** **With a century of experience delivering excellence and innovation, Ricardo now employs over 3,000 engineers, scientists and consultants around the world and it is the passion and expertise of this community, which drives us forward and maintains our position of technical leadership.** **As a business, we value respect, integrity, innovation and passion and guided by these values we enable our customers to achieve sustainable growth and commercial success.** | Responsible for the design of a wide range of mechanical components from various sectors (Engines, Vehicles, Transmissions & Hybrids) for example light duty gasoline engines to off highway transmissions. The Mechanical Design Engineer will work closely with the senior designers to carry out specified mechanical component designs as identified by the Chief Designer or Lead Designer. Additionally, will attend graduate development trainings to rapidly increase engine design experience and knowledge.**Duties and Responsibilities:*** The mechanical design of basic components through concept, definitive and detail design phases
* To work on a variety of market sectors from passenger cars to industrial and defense markets
* Carries out basic mechanical design work including 3D modelling, basic stress calculations, 2D detailing, 2D layouts, assist with Tolerance stacks as required. Agreeing the design approach with the project lead designer
* Responsible for the following engineering activities:
	+ Creation of 2D drawings to allow manufacture or purchase
	+ Creation of assembly drawings and bill of materials
	+ Carry out design change requests as per process and in a timely manner
	+ Fit and function of their responsible parts or system and their interaction with other systems
	+ Layout drawings and standard part libraries are up to date
	+ Meeting design timing plans on assigned tasks
	+ Preparing and presenting mechanical designs at design reviews
* Work closely with manufacturing and process engineers to ensure products are designed for manufacture
* Responsible for reporting progress of all assigned tasks to the project management teams, chief designer or engineering manager
* Keeps up to date with and dissemination of:
	+ latest manufacturing techniques and drawing standards
	+ latest technology trends
	+ latest developments in design tools
* Liaises with suppliers and other Ricardo departments to ensure the required information is available when needed and customer requests are dealt with in a timely manner
* Follows departmental processes relating to management of designs (MDP)
* Ensures design files and documentation are kept up to date, and stored in accordance with department procedures
* Regularly review design guidelines and feedback where required
* Identify opportunities to innovate and suggest R&D topics for further study
* Promote best practice use of Windchill and contribute to its development

**Qualifications:**Degree (Bachelor or Masters) in mechanical engineering or similar field or with equivalent experience**Experience:** Basic knowledge of mechanical design and components3D CAD skills with at least one major CAD systems (e,g CREO, CATIA)Ability to understand and produce basic technical drawings with some GD&T competencyAble to produce design to specified deadlines and achieves required timescalesConfident proactive character, ability to learn fast and be challengedGood communication skills, dealing with other employees and possibly suppliersAdditional RequirementsAble to communicate effectively in English and ChineseSelf-motivatedTeam playerEffective problem solving capabilitiesCommitted to undertaking professional developmentAbility to work to tight deadlines**NB: All applications must be accompanied by a covering letter detailing how your skill and experience match this role.****Ricardo is an equal opportunities employer.** |
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