



## **MECHANICAL DESIGN ENGINEER – JOB REF: JD-029**

### **Description**

The mechanical design engineer will be part of a small multi-disciplined team of engineers that designs remote controlled electro-mechanical and hydraulic products that are used in harsh environments. The mechanical engineer will be responsible for the mechanical design of both new products and upgrading existing products and taking a design from concept to final assembly.

### **Responsibilities**

- Performing work in accordance with Company procedures and guidelines.
- Modelling of parts and assemblies and production of detailed drawings and exploded view drawings in Solidworks.
- Checking drawings, for dimensional accuracy, tolerances and presentation.
- Analysis of the equipment involving; force and stress analysis, mechanism analysis, and hydraulic and electro-mechanical analysis of drive systems involving motors, gearing and actuators. The analysis will involve hand calculations and spreadsheets with Mathcad and Excel, and finite element analysis with Cosmos.
- Interaction with electronic design engineers to ensure product is designed concurrently with electronic component integration.
- Assisting technicians with new builds to ensure that parts and assemblies, and stock details are correct.
- Dealing with internal and external non compliance of parts and engineering change notices.
- Interaction with purchasing/stores/production/quality departments to ensure that parts and builds are as per the design.

### **Qualification Requirements**

- Degree qualified in Mechanical Engineering.
- Proficient in the use of 3D CAD software.
- Good analytical skills of static and dynamic systems.