

## **ROLE PROFILE**

**Job Title: Senior Mechanical Design Engineer (ECD)**

**Contract: Permanent**

**Salary: Dependent on Experience**

**Business Area: R&D**

**Location: Based Newport, South Wales**

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### **Job Description Summary:**

Working as part of our ECD (Electrochemical Deposition) team, the primary responsibilities of this role will be to develop hardware for bump electroplating.

This will involve generating new hardware concepts/designs, liaising with external project partners/suppliers and carrying out hands-on hardware testing. Additional responsibilities will include writing technical documents for both internal and external use.

The successful applicant will be joining a project, which could herald a completely new product type for the company. Success would trigger the formation of a whole new department hence there is potential for rapid career progression. This position could involve a minimal amount of international travel e.g. visiting suppliers.

### **Role Responsibilities**

- Mechanical design projects from concept to release as product.
- Designing mechanical components to operate in a fluid environment.
- Working in multi-disciplined project teams for systems design.
- Pneumatic systems design.
- Obsolescence engineering.
- Producing key reports from first principles to meet regulation requirements.
- Other documentation – Service Bulletins, Procedures, Reports, Engineering Drawings

### **Qualifications & Experience**

Applicants should be educated to a minimum of degree level in a science or engineering discipline. Applicants should have experience of CAD across a broad range of mechanical and electromechanical applications. Preference will be given to candidates with good working knowledge of Solid Edge Software (ideally >2yrs experience) and experience of large complex systems with a high degree of interdependency between components.

Other preferred attributes are:

- Strong CAD skills (Ideally Solid Edge).
- Experience of large complex systems with a high degree of interdependency between components.
- Experience of designing to industry standards (ideally SEMI standards)
- The willingness to take CAD designs through to test assembly.
- Experience of trouble shooting mechanical assemblies.
- Experience of industrial fluidic networks i.e. knowledge of pumps, valves, tubes, pneumatics and couplings.
- Good analytical skills & a logical, pro-active approach to problem solving.
- The ability to work both autonomously and as part of a small team.
- A flexible work ethic with the ability to shift from desk based design to practical hands-on work as required.