

## E&SD Manufacturing Engineer

To be a member of a small group concerned with the build, test, and analysis of small mechanical systems which are the main safety components in Nuclear Weapon Arming, Fuzing and Firing systems.

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<b>Discipline</b>	Engineering - Mechanical
<b>Employment Basis</b>	Full Time
<b>Location</b>	Aldermaston
<b>Salary Range</b>	£20,000 - £40,000
<b>Job Reference</b>	27/06/01/651386

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### Key accountabilities

- Become a technical expert in the technologies associated with manufacturing precision mechanical mechanisms.. These include precision machining, specialised welding, and glass-ceramic sealing.
- Develop and maintain a detailed knowledge of UK industrial capability for providing these specialised processes. Visit potential suppliers and engage in meetings regarding manufacturing processes and future production of components and assemblies.
- Place and manage external contracts aimed at providing AWE with an assured source of these critical manufacturing processes. Write visit reports and assessments / recommendations on suppliers suitability for long term production.
- Co-ordinate all manufacturing operations for AWE stronglink designs through the prototype, full development, and final production stages of manufacture and assembly. Co-ordinate the design and procurement of all necessary tooling, jigs, and fixtures for pre-production batches, and make recommendations for full production tooling in conjunction with the selected suppliers.
- Assess designs and recommend changes for ease of manufacture and assembly. Conduct research into new manufacturing processes, assess their usefulness and make recommendations to designers as to their suitability for component manufacture. Actively take part in design review meetings.
- Liaise with internal groups, including the other design teams and the AF&F integration team, to establish component synergies that would benefit from production techniques. Write reports and give presentations on appropriate subjects where deemed necessary.
- Act as deputy to technical leader when required. Support the technical leader in progressing internal and external programmes.

### Responsibilities

- To ensure that you understand and apply responsibilities with regard to the Company's Environment, Health, Safety, Security and Quality Standards

### Qualifications

- Degree or HNC level in a mechanical, manufacturing, or production discipline.

### Knowledge

- A sound understanding of modern manufacturing, processes, and precision assembly

techniques.

- Knowledge of aerospace / military quality standards as applied to components and assemblies.
- Knowledge of tool design and procurement.
- To be aware of and understand the Company Quality Procedures and Security Regulations.

### **Experience**

- Several years proven experience in a manufacturing environment. Ideally in precision high quality products.
- Experience of medium quantity batch manufacture in an aerospace associated industry.
- Experience of assessing designs for cost effective manufacture and assembly.
- Experience of producing process procedures for semi-skilled operators.
- Experience of placing manufacturing contracts on suppliers and co-ordinating follow up activities

### **Skills**

- Ability to assess designs for manufacturability and to make suitable recommendations for improvement.
- Ability to use initiative with locating external sources of manufacture.
- Ability to assess suppliers potential for long term production contracts.
- Ability to communicate ideas and recommendations to senior management.

### **Behaviours**

- To be able to work as a team member in a research & development environment.
- To be able to effectively communicate work issues within the team and at meetings with sub-contractors.

### **Special Requirements**

None