

## **JOB DESCRIPTION**

**Position:** Mechanical Engineer  
**Reporting to:** Engineering Manager  
**Location:** Bloxham, Oxfordshire

### **About Agrivert**

Agrivert is a successful company, designing, constructing and operating facilities in the organics recycling, green energy and sludge processing sectors. Agrivert is working on projects in the UK and throughout the world, particularly in the Far East and Australasia. With a pipeline of design, build and operate projects to deliver, Agrivert is strengthening its core staff.

### **Role Overview**

The Mechanical Engineer will play a leading role in the development of all mechanical equipment and systems in Agrivert's future projects. As a Mechanical Engineer you should have a broad range of experience of all stages of a typical EPC project, from conceptual studies to detailed design, procurement, installation and commissioning. You will have a proven track record of working on projects of different sizes and experience of interfacing with other disciplines such as Process, Civil, Structural and Electrical. Experience with anaerobic digestion and organic waste would be a distinct advantage.

### **Major Responsibilities:**

- Undertake the design of major plant mechanical equipment (including rotating, static & package equipment and piping design) throughout the Preliminary and Detailed Design, Procurement, and Construction phases
- Main areas of responsibility include CHP, boilers, hydraulics, compressors, fans and blowers, piping design, mixers and stirrers
- Prepare and issue schedules, procedures, calculations, data sheets, requisitions in accordance with project requirements
- Ensure all Mechanical Equipment conforms to all applicable codes and standards as well as specifications and client requirements
- Prepare Functional Specifications for major equipment, review supplier / vendor proposals and documentation, and co-ordination with various other disciplines for data inputs
- Provide technical input in the development of 3D design
- Provide direction and guidance on all technical queries relating to mechanical disciplines
- Provide technical assistance, coordination and liaison with other discipline engineers on all aspects of technical matters and audits
- Liaise with Independent verifiers in demonstrating fitness for purpose and provide clarification and justification
- Participate in all project safety and design / HAZOP / HAZID & constructability reviews as necessary
- Participate in equipment procurement activities such as witness of inspection and testing
- Provide technical support to maintenance and operation teams, carry out trouble shooting, resolving technical problems and failure investigation
- Co-ordinate with equipment suppliers to resolve issues in plant design, manufacturing, shipment, installation and commissioning
- Prepare engineering reports, method statements and Failure Mode, Effects and Criticality analysis (FMECA) reports

### **Experience & Qualifications**

- Substantial proven experience in an engineering design company
- Proven track record working in an EPC project and a multi-discipline team environment
- Degree qualified in a relevant engineering discipline (Mechanical engineering preferred)
- Membership of a recognised professional institute preferred

- Strong and broad range of mechanical engineering skills, familiar with common engineering practices such as hand-calculations, mathematical simulations and Computer Aided Engineering (CAE) tools
- Knowledge of CHP design and specifications
- Experience of participation in HAZOP/ HAZID/ SIL Rating workshops
- Experience dealing with independent certification bodies
- Experience with various mechanical equipment suppliers / vendors
- Exceptional standards of spoken and written English
- Practical experience working within a similar highly regulated environment
- Working knowledge of the application of DSEAR and ATEX in industrial facilities
- Proven ability to manage costs; and demonstrable commercial awareness