

Job Profile: Senior Bid Engineer – Pre-Engineering

Organisational setup and Job Information	
- Location: - Department: - Reporting line:	Briggs of Burton plc Sales and Pre-Engineering Lead Engineer
Job Focus	
<p>A Senior Engineer with a specific background in Pharmaceutical Process Engineering, the Senior Bid Engineer will have responsibility for junior line management within the Pre-Engineering Team, interpreting customer requirements and leading/developing proposals with other members of our Sales and Pre-Engineering team.</p> <p>At Briggs the emphasis is on the design and engineering of hygienic processes across our core sectors, including Brewing, Distilling, Food and Pharmaceuticals. These processes typically operate on a batch basis where safety, energy efficiency and cleanliness is critical. Our vision is to be the best in the world for safe, efficient, and sustainable liquid processing solutions.</p> <p>The role will also be to assist the Company and the Sales and Pre-Engineering Department specifically, to maintain our core values, “People first, Drive Sustainability, Customer Focused, Act with Integrity & Deliver Results”, to help meet annual performance requirements, and to contribute to the success of the business and wider Group as a whole.</p> <p>Adhering to the Terms and Conditions of Employment and Company Rules.</p>	
The role & Responsibilities	
<p><u>Management responsibilities</u></p> <ul style="list-style-type: none"> • Ensure both Briggs and Client Health & Safety standards are upheld across all activities. • Management of the day-to-day activities of all allocated Process Engineers, and ensuring they are used effectively and efficiently, including providing technical expertise and guidance, training and mentoring • Management of quality, completeness, consistency, and accuracy of process engineering input into tenders and proposals • Assist with the development and delivery of the Business’ strategic goals. • Support with departmental management responsibility, including providing input to annual budgeting, supporting with recruitment etc. <p><u>Departmental Tasks and Duties</u></p> <ul style="list-style-type: none"> • Develop a technical understanding of Client project requirements to support in and prepare cost estimates for EPC, EPCM and FEED CAPEX consultancy tenders. 	

- Manage other disciplines required to support the development and preparation of technical / commercial tenders, including providing support to others in the development of tenders in areas relevant to your specific discipline.
- Liaise and visit Clients (UK and worldwide) to undertake site survey, review project scope and present both Briggs and CLPT Group capabilities.

Process Engineering Tasks and Duties

Development of/support with the development of:

- **BFDs Block Flow Diagrams** - Showing overall high-level process in simplistic form.
- **PFDs Process Flow Diagrams** - Showing the main process flows and processes required in simplified flow charts, with capacity, flow etc.
- **P&IDs Process and Instrumentation Diagrams** - Showing in schematic detail plant, pumps, heat exchangers, valves, instruments, and pipework, with tag numbers and sizes/duties. Includes development of equipment database to include process fluids, flows, and equipment duties.
- **Process drawing control and management** - Planning, management, and control of BFDs, PFDs & P&IDs (as above), including review, approval, value engineering and change.
- **Utilisation Charts** - Showing plant utilisation over a few batches / extended time, often with utility loads. Produced graphically or using process modelling software.
- **Site Surveys** - Gather information to allow the production of P&IDs of existing equipment.
- **Mass Balances** - Calculating and defining material / product flows in, between and out of process operations.
- **Energy Balances** - Calculating and defining energy flows in, between and out of process operations.
- **Design Reviews** – Attend / lead design reviews internally and externally with customers to confirm/agree design.
- **BOD Basis of Design** – Capture the client's requirements in a single document confirming the project scope.
- **Heat Transfer Design/Specification** - Thermal design calculations to size heat exchangers and produce Heat Exchanger Datasheets/Specifications.
- **Fluid Flow Design/Specification** - Pressure drop calculations to size pumps and produce Pump Datasheets/Specifications.
- **Plant Design / Specification** - Design, sizing and specification of tanks and process equipment such as dryers, evaporators, separators, filters, etc.
- **FEED Front End Engineering Design Studies** - Conceptual / Feasibility studies assisting clients determine appropriate project scopes.
- **Programme and Cost** - Liaison with Project Manager & other Engineers To ensure scope, programme (schedule), and costs / budget are maintained and controlled. This includes consideration of cost, schedule, and operation / safety before making changes, and communication of these changes, especially once purchasing & implementation commences.

Desired Knowledge & Experience

Education:

- Chemical Engineering or similar Degree, and other relevant experience/qualifications.
- Master's Degree Preferable
- Language – English (any foreign language skills could be considered beneficial)

The applicant should ideally be a Chartered Engineer within their relevant industry, or actively working towards achieving Chartered Engineer Status

Professional experience:

- Preferably a minimum of 5-years' experience in Engineering post degree course or other.
- Experience of process and hygienic engineering systems.
- Understanding of Briggs products and engineering services
- Experience working within a similar role.
- Strong communication skills.

Technical skills:

- Good working knowledge of Microsoft Office (Excel, Word, Project, Powerpoint)
- Strong commercial awareness.
- Driving licence is essential.

Required competencies & behaviour

- Result driven, confident, and dynamic personality.
- Self-motivated with independent working style.
- Ability to work under pressure against constantly changing deadlines.
- Ability to liaise with and proactively support existing teams.
- Excellent communication skills across all levels of management.
- English: Native speaker (other languages may be beneficial).

Remarks:

- International and national travel will be an essential part of the role, this would be both regular travel for business meetings and as and when required to meet the Business, Client and Project needs.
- This job description is issued as a guideline to assist you in your duties, it is not exhaustive.
- Due to the evolving nature and changing demands of our business this job description may be subject to change.
- You may, on occasions, be required to undertake additional or other duties within the context of this job description, and according to the needs of the Company