

## **POSITION: PROCESS ENGINEER**

JOB LOCATION: Mumbai

REPORTS TO: Senior Process Engineer / Team Lead

### **WHAT WE DO**

Carbon Clean Solutions (CCSL) is an innovation leader in carbon dioxide (CO<sub>2</sub>) separation making capturing CO<sub>2</sub> from the black smoke of polluters a reality. We know there are better ways to enable the transition to clean industrial products to tackle the dual problem of growth and global warming. We are kicking some of the most innovative project on the back our patented technology solving a trillion-dollar problem. Currently we are focused on rolling out first projects invested in by our customers to produce green chemicals, green cement and carbon neutral fuels from CO<sub>2</sub>.

We understand that our people are our greatest assets; we work hard to develop our employees and rely on them to make wise choices. The result is a challenging and rewarding work environment that fosters challenge and growth.

### **ROLE OBJECTIVE (why this role)**

Process Engineer works with other team members to solve technical, engineering related problems. Supports or leads yield improvement activities, new product or process introductions, and cost reduction projects. Supports drive to fundamental process understanding and lowest cost producer objectives. They support the development and execution of plans to evaluate new technology or improvements in existing technology resulting in a superior product in terms of quality and/or cost.

This role demands to be a key member of multi-disciplinary teams, working together to drive continuous improvements in existing simulation processes modification in operating procedure to enhance process or equipment efficiency. To meet this challenge, the role holder shall tenaciously drive to deliver workable solutions, based on sound scientific principles by directly influencing our simulation processes and making a difference.

### **ROLE DESCRIPTION (what this role)**

- Prepare process design and to support Proposals and Projects for the Business Unit.
- Provide information throughout the various proposal, engineering and construction phases to the proposal and project teams with regard to all aspects of Process Engineering.
- Perform a thorough review of customer's inquiry and/or Request for Process Design information
- Support the R&D team as and when required and contribute to IP innovation.
- Perform process simulations and develop Process Flow Diagrams (PFD's), P&IDs and Heat and Material Balances
- Perform a techno-economic analysis of the process design and compare it with the competitive process design
- Develop sizing information for Process Equipment (compressors, pumps, heat exchangers, distillation columns, separators, reactors, etc.) and provide information in the form of equipment data sheets
- Prepare material selection designation (diagram) for plant requirements
- Develop innovative ideas and alternatives to be cost competitive with Proposals
- Participate in HAZOP studies.

- Assist in Plant start-up and performance testing, as required

## **COMPETENCIES [Knowledge, Skills, & Attitude]**

- Ability to learn/ adapt to new technology and processes quickly.
- Creative/innovative problem solving.
- Strong technical fundamentals with process engineering skills.
- Strong working knowledge of Process simulators, Protreat, gPROMs, Aspen Plus, Promax, UniSim, HYSYS, HTRI, PIPENET or FLARENET etc.
- Strong data analysis and statistical skills. Must be proficient with Microsoft Office products (Word, Excel, Powerpoint).
- Ability to multitask and prioritize work on an independent basis in a fast-paced environment.
- Strong communication and presentation skills.
- Ability to work effectively on all levels of an organization.
- Project management experience such as MS-Projects or ASANA
- Experience with statistical packages such as Minitab or SPC Excel
- Experience with experimental design.
- Effective analytical and problems solving skills.
- Skills to understand customer requirement and needs

## **EXPERIENCE & COMPENSATION**

- 2+ years
- Very competitive compensation with equity participation and bonus