



Job Title: Senior Plant Engineer

Company Overview:

Chemetry (www.chemetrycorp.com) pioneered a new platform, eShuttle™, to produce a range of industrial chemical products at lower energy demand, cost and safety than conventional production methods. We operate laboratory and pilot plant facilities in Moss Landing, California, to further develop our technology platform. We have a world class chemical pilot plant where we are doing ground breaking chemical synthesis research funded by venture capital and large chemical companies. The position is best suited for someone with chemical pilot plant experience who can understand the plant operations and who can effectively oversee the plant engineering activities. This position could be filled with a driven experienced mechanical or chemical engineer who would be interested and versatile enough to optimize the pilot plant. In addition, this position is a growth position. We are also currently designing a large commercial demonstration plant for implementation at an international chemical complex. We believe that learning the technology in the plant as the starting point allows the employee to really understand the technology and from there the employee can move to process engineering of larger plant designs. This position is only open to candidates who are authorized to work in the US without sponsorship.

Education: Minimum B.S. in Mechanical or Chemical Engineering

Experience: 5+ years engineering experience in a chemical manufacturing plant, chemical pilot plant or similar environment

Location: Moss Landing, CA

Scope:

The Senior Plant Engineer supports Chemetry's efforts at pilot scale by designing and specifying equipment, overseeing installations and construction, troubleshooting, and working directly with the Plant Operations Team to improve the production and testing capabilities.

The Senior Plant Engineer will assist in developing the Pilot Plant process in all Chemetry systems: electrochemical cell system, catalysis reactor systems, separation systems and ancillary systems. Most of the time will involve designing upgrades to Chemetry's current pilot systems, trouble shooting existing components and operations, specifying and ordering equipment, and overseeing installation and commissioning. The Senior Plant Engineer will work with the engineering design team and operations team to ensure integration of new designs for implementation. Finally the Senior Plant Engineer will be responsible for training operations staff on equipment maintenance, operation and troubleshooting.

The Senior Plant Engineer must be able to deal with the "ambiguity" of a new technology and new manufacturing processes. The ideal candidate must also be comfortable with "not knowing all the answers today" and be prepared to "build the answers as we go." The plant



engineer will see this position as an opportunity to move into a small company that can transform materials and chemical industries with innovative and game-changing technologies.

Minimum Requirements

- Bachelor's Degree in Engineering. Chemical or Mechanical. Masters in Engineering is desirable
- 5+ years experience in industrial research projects, or Chemical plant engineering or pilot plant engineering
- Strong mechanical skills associated with plant operations and equipment
- Working experience with high-pressure, high-temperature corrosive fluid handling: piping, heat exchangers, pumps, valves, and instrumentation.
- Specific experience with specification, procurement, installation and maintenance on a full range of valves (control, manual, pressure relief), pumps (progressive cavity, centrifugal, diaphragm, peristaltic,), vacuum systems and compressors,
- Experience with engineering design and operation of systems for handling, metering and mixing and feeding caustic, corrosive, flammable, and acidic chemicals
- Experience with instruments including coriolis flow/density meters, tank and vessel level sensors, and thermocouples
- Experience with PLC controls for pilot and commercial plant operations with Allen-Bradley experience preferred
- Familiarity with ASTM pressure vessel codes and requirements
- Familiarity with NEC / NFPA 70 code for electrical safety and area classifications
- Preference for experience with electrochemical technologies such as chlor-alkali
- Experience with PFDs, P&IDs, Management of Change, Process Hazard Analysis (PHA)
- Expertise in CAD software, AutoCad and SolidWorks preferred

Responsibilities:

- Promote a safe work environment
- Design piping systems, specify pumps, valves, and instrumentation
- Lead design and safety review meetings
- Document process changes through management of change
- Lead troubleshoot equipment and process issues in pilot plant and implement corrective action
- Communicate with Operations and Management about priorities for process improvement
- Write and modify operating procedures for new systems or new components
- Train Operations on new systems, equipment, and instruments

