



Job Title: Senior Plant Engineer

Company Overview:

Chemetry Corporation (www.chemetrycorp.com) pioneered a new platform, eShuttle™, to produce a range of industrial chemical products at lower energy demand and cost and safer 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 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 and experienced mechanical or chemical engineer who would be interested in and versatile enough to optimize a pilot plant. Additionally, this is a growth position. We are presently designing a large commercial demonstration plant for implementation at an international chemical complex. We believe that learning the technology in the plant, as a starting point, allows the employee to fully understand the technology. From there the employee may move into process engineering of larger plant designs. This position is open only to candidates authorized to work in the U.S. without sponsorship.

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

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

Location: Moss Landing, CA

Scope:

The Senior Plant Engineer supports Chemetry's efforts at pilot scale by leading detail design of equipment and instrumentation, overseeing installations and construction, troubleshooting and working directly with the Plant Operations Team to improve production and testing capabilities. The Senior Plant Engineer will lead engineering support for successful operation of the Pilot Plant and Demonstration Plant process in all Chemetry systems: Electrochemical cell, catalysis reactor, separation 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 trouble shooting.

The Senior Plant Engineer must be able to deal with the ambiguities 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 Senior 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
- 5+ years' experience in industrial research projects, 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 specifications, procurement, installation and maintenance on a full range of valves (Control, manual, pressure relief), pumps (Progressive cavity, centrifugal, diaphragm, peristaltic) and vacuum systems and compressors.
- Experience with engineering design and operation of systems for handling, metering, 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
- Experience with PFDs, P&IDs, Management of Change and Process Hazard Analysis (PHA).
- Expertise in CAD software, AutoCAD and SolidWorks

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 troubleshooting of equipment and process issues in pilot plant and implement corrective action(s).
- Communicate with Operations and Management regarding priorities for process improvement.
- Write and modify operating procedures for new systems or new components
- Train Operations team on new systems, equipment and instruments

