



**Job Title:** Plant and Process Engineer

**Company Overview:**

Chemetry ([www.chemetrycorp.com](http://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 are also currently designing a large commercial demonstration plant for implementation at an international chemical complex.

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

**License:** PE license in California (desired)

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

**Location:** Moss Landing, CA

**Scope:**

The Plant and Process 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 Plant and Process engineer will also use the knowledge and experience from the pilot plant to support the design and eventual operation of the demonstration plant.

The Plant Engineer will assist in developing the Pilot Plant and Demonstration 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, specifying and ordering equipment, and overseeing installation and commissioning. Working with engineering design team to ensure integration of new designs for implementation.

The 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 preferred
- 5+ years experience in industrial research projects, or Chemical plant engineering or pilot plant engineering
- Familiarity with high pressure high temperature corrosive fluid handling: piping, pumps, valves, instrumentation.
- Specific experience with a full range of valves, pumps, vacuum systems, currently used and how to specify, procure and install.
- Experience with engineering designs for handling, metering, mixing and feeding caustic, corrosive, flammable, and acidic chemicals
- Experience with instruments and PLC controls for pilot and commercial plant operations
- 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, HAZOPs
- 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
- Troubleshoot issues in pilot plant and recommend 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
- Optimize current systems

