

## **Chemical Process Engineer - Senior or Staff Level**

### **MOSS LANDING, CA / ENGINEERING / FULL-TIME**

In this role, you will use your expertise in the development of modular skid-mounted chemical plants to architect a large-scale hydrogen production plant. You will join a motivated team that will design, construct, validate, and deploy a modular hydrogen production technology. You're right for this role if you are a self-motivated team player excited to utilize your engineering skills to improve the environment.

#### **Roles and Responsibilities**

- Design pilot hydrogen electrolyzers and support their safe operation
- Specify piping system, pumps, control valves and instrumentation.
- De-risk product through pilot plant operations – component validations, generation of model correlations, validation of innovative processes
- Develop a large-scale electrolysis-based hydrogen production plant
- Create a modular process skid based first-of-a-kind hydrogen plant design suitable for rapid and economical scale up
- Develop functional, safe and cost-effective chemical process designs
- Interface with component vendors and system fabricators to develop understanding of cost-performance tradeoffs, then work with those vendors to source optimized components and subsystems

#### **Prior Experience and Professional Qualities**

- Bachelor's degree or higher in Chemical Engineering, or similar
- 5+ years industry experience in oil & gas or chemical processing.
- Experience with PFDs, P&IDs, Management of Change, Process Hazard Analysis (PHA)
- Hands on field experience with the engineering, procurement, and construction of large scale, preferably modular, plants
- History of innovation, system optimization, and cost reduction – ideally both during the design phase and as part of continuous improvement of commercialized processes
- Demonstrated ability to strategically guide development activities within and across functions

#### **Preferred Experience**

- Previous experience with hydrogen electrolyzers, hydrogen plants or chlor alkali plants
- Design, fabrication, and deployment of modular process skids, pilot plants, and first of a kind operations



- Process modeling and cost modeling with software like Aspen HYSYS, Matlab, etc.
- Familiarity with the properties and handling requirements of hydrogen, oxygen, and caustic
- Experience with plant certification, compliance, and safety per IEC, CE, UL, NFPA, and other codes
- Startup experience preferred; excited to be part of a small team that is making a difference
- Experience in renewable energy, climate tech, or chemical industries preferred
- Passion for decarbonization highly preferred

### **About VerdagY**

The VerdagY team is a dedicated and innovative group of forward thinkers looking to dramatically change the hydrogen electrolyzer industry. VerdagY is a spinoff of green chemistry pioneer Chemetry Corporation. Our years of experience in electrochemistry and plant operations and engineering have provided us an opportunity to rapidly commercialize our innovative and novel approach to hydrogen electrolysis. We are backed by an incredible group of financial investors, renewable energy developers and Fortune 100 corporations. Our investor/partners are leading companies in the petro-chemical, industrial chemicals, energy infrastructure and mining industries, all sharing an extraordinary desire to deeply decarbonize their businesses at very large scale. This is where VerdagY's membrane-based, large aspect ratio cells, running at high current densities provides the scale solution needed for industrial decarbonization. VerdagY operates offices, laboratory and pilot plant facilities in Moss Landing, California, to further commercialize this technology platform.

### **Employee Benefits, Flexibility & Ownership**

VerdagY provides generous health/dental/vision/disability insurance benefits for our employees and their immediate family. We know flexibility is important and we value and respect individual contribution whether it comes from work done at home, during odd hours, or at Moss Landing with teammates. Employee equity and ownership is our way to ensure everyone participates in the results and value creation of the company. We offer a 401k and an unlimited time-off policy.

### **Diversity & Inclusion**

We value everyone and are actively seeking diversity as we grow. We believe a diverse team of people with different perspectives and lived experiences enriches the quality of our work and is fundamental to a positive, collaborative and inclusive culture.

### **Culture**

We are building a people-centric culture where trust, respect and empowerment are built into every aspect of VerdagY and our way of working. If you want to do your best, most purpose-filled, meaningful work, come and join us – your contributions are needed now more than ever.

VerdagY is an Equal Opportunity Employer