



Plant Process Engineer

Be part of a team that is tackling one of the largest challenges of our generation. As an Inventys employee, you will apply your talents in ways that make a difference in our world by directly contributing toward technologies to reduce greenhouse gas emissions.

Inventys is a clean energy technology company with a credible solution for capturing point-source CO₂ emissions and accelerating the global transition to a lower-carbon economy.

We are looking for a Plant Process Engineer to develop, design, commission, test, and optimize carbon capture gas processing plants. The position requires the ability to scale up a novel process from the laboratory to pilot plant size and eventually to full scale gas processing plant. The position requires an in-depth understanding of fluid mechanics and thermodynamics and heavily involves the application of transport phenomena knowledge in chemical engineering.

Key Responsibilities/Accountabilities:

- Designs new gas processing plants, monitors modifications and upgrades, and troubleshoots existing process designs.
- Applies the principles of mass, momentum and heat transfer to process and equipment design, including conceptual, scheme and detail design.
- Prepares reports, PFDs and P&IDs.
- Performs process hazard and operability analysis (HAZOP), and assesses the safety and environmental impact of the plant.
- Performs techno economic analysis (TEA) and evaluates the capital and operational cost of projects.
- Works closely with process, mechanical, and electrical engineers to develop P&IDs.
- Ensures all aspects of a design meet specified regulations.
- Provides guidance to junior engineers.
- Carries out other related tasks and projects as required.

Competencies required (knowledge, skills and abilities):

- Experience: At least 7 years four years of experience in development, design, and operations of solvent based CO₂ capture plants using Selective Chemical Absorption Solvents and Thermal Kinetic Optimization process
- Education: Bachelor's degree in Chemical Engineering
- Technical: Must be proficient in the use of the Microsoft Office suite of products, including Excel, Word, PowerPoint and Outlook
- Other: A working knowledge of computer aided-design equipment and computerized processes such as Aspen Hysys is required; boiler technology and design of heat recovery steam generators, FEED studies, TEA
- Experience in gas plant construction, commissioning, and project management

- Critical thinking skills and good judgment
- Ability to work well with cross-functional teams and diverse groups of stakeholders
- Adaptable to change
- Demonstrated interpersonal skills in establishing cooperative working relationships both internally and externally
- Demonstrated written and oral communication skills
- Ability to develop and deliver presentations
- Ability to work independently and as part of a team
- High level of initiative
- Good time management, with ability to organize, prioritize and meet deadlines
- Strong attention to detail
- Strong customer service skills, including ability to build credibility and trust
- Excellent analytical skills with ability to make sound recommendations

As a team member you will work in a safety-first environment while enjoying competitive benefits, supportive co-workers, and interesting challenges to solve. You will grow through challenging work with diverse, talented people and by finding endless opportunities to learn and engage.

If you want to take the next step in your career, send your resume to jobs@inventysinc.com with "Plant Process Engineer" in the subject line. For more information about Inventys, please visit www.inventysinc.com. You can also connect with us on Facebook or Twitter @inventysinc.