

Process Engineer
Full Time Permanent Position
Clean Tech Company
Denver, Colorado
Pay Range: \$120,000 – \$140,000, DOE



Opportunity Summary:

Starfire Energy is a clean energy company that walks the walk. We are a Colorado Public Benefit Corporation. Our focus is the generation of carbon-free ammonia (NH₃) and derived fuels. We have a proprietary and flexible process for making ammonia from air, water, and clean energy. Our ammonia cracker then produces an ammonia-hydrogen blend fuel or pure hydrogen. The emissions from ammonia fuel are nitrogen and water. We are providing a completely CO₂-free way to make and use fuel for long term energy storage, transportation, and heat applications.

As a high-growth, start-up organization, we offer the unique opportunity for you to contribute in many facets of the business and advance your career. You will enter a small, dynamic company that is executing aggressive growth, and you will help commercialize clean technologies that will become a part of the world's energy infrastructure. We value creativity and integrity and we plan for sustainability in all that we do.

The Process Engineer is responsible for providing the technical guidance on the design of ammonia generation and ammonia cracking systems. The ideal candidate will have demonstrated skills in leading a team in the development of large, complex, automated chemical systems consisting of mechanical, plumbing, manual and automated valving, electrical, process control and instrumentation elements in both start-up and large corporate environments.

This position is not eligible for work visa (H-1B), and successful applicants must be fully vaccinated and boosted against COVID-19.

Essential Job Duties:

- Oversee and prepare process design deliverables including:
 - Design Basis and Scope
 - Block and Process Flow Diagrams
 - Piping and Instrumentation Diagrams
 - Heat and Material Balances
 - Process Control Narrative
- Prepare calculations and data sheets using standard methods and sound engineering judgment to support equipment, valve, orifice and line sizes and designs.
- Model chemical processes using spreadsheets, process simulation or other software.
- Develop, follow and contribute to discipline and inter-discipline design standards, systems, policies and procedure. Support continuous improvement.
- Analyze equipment specifications for appropriate process parameters.
- Coordinate and review the work of other process engineers to meet project schedules and quality requirements.

- Review design inputs and activities from other disciplines including electrical, mechanical, piping, instrumentation, and controls.
- Participate (and possibly lead) process safety reviews and HAZOP/Process Hazard Analyses.
- Ensuring design compliance with the applicable codes, practices, policies, performance standards, and specifications.
- Keeping detailed records of all calculations, simulations, reports, drawings and any other documentation associated with the project.
- Communicate difficult concepts and coordinate work and schedules with other disciplines, Project Engineer and Manager.

Requirements:

- BS in Chemical or Petroleum Engineering
- 5+ years experience in high-tech project and chemical processing environment
- Ability to multitask efficiently
- Independent self-starter
- Ability to maintain documentation and project records
- Demonstrated problem solving and troubleshooting skills
- Office software skills (document, spreadsheet, and presentation)
- Willingness to work in an Ubuntu GNU/Linux computing environment

Additional beneficial skills/experience:

- Master's degree in Engineering
- PE registration in Colorado, or the ability to acquire
- Experience in higher pressure and hydrogen-based applications.
- Working knowledge of ASME piping and pressure vessel codes, API, ASTM and other industry standards
- Excellent critical thinking skills
- Strong teamwork skills
- Ability to self-direct and drive to aggressive milestones
- High attention to detail
- Excellent interpersonal skills
- Desire to learn with high adaptability

Hiring Manager:

Mechanical and Process Engineering Manager

Starfire Energy is committed to hiring and retaining a diverse workforce. We are proud to be an Equal Opportunity Employer, making decisions without regard to race, color, religion, creed, sex, sexual orientation, gender identity, marital status, national origin, age, veteran status, disability, or any other protected class.