

Systems Process Engineer
Full Time Position
Clean Tech Company
Denver, Colorado
Salary Range \$140,000 to \$200,000, 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 Systems Process Engineer is responsible for overseeing all design, development, and operation of all systems used in a renewable energy industry. The engineer will work with cross functional teams to improve, test and implement these systems into ammonia production and cracking projects. The ideal candidate will have demonstrated skills in project management, process design and improvements, and project development cycles 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:

- Responsible for overseeing the design of process systems.
- Develop, follow, and contribute to intra-discipline and inter-discipline design standards, systems, policies, processes, and procedures; support continuous improvement.
- Provide final approval and/or feedback on any process design changes that are developed and proposed by various engineering disciplines for implementation in a wide range of projects at various scales and costs.
- Generate process flow and piping & instrumentation diagrams; develop standards for process drawings.
- Oversee project development of Research and Development Initiatives projects.
- Establish and administer a Process Safety Management system, including facilitation of hazards analysis meetings and documentation of process or product changes.
- Prepare calculations and data sheets using standard methods and sound engineering judgment to support equipment, valve, orifice, line sizes, and designs.
- Review test results, analyze data, and propose possible process design improvements.
- Review and approve documentation and design changes.

- Ultimately, support the scale-up and wide-scale manufacturing of ammonia production and ammonia cracking systems.
- Train, mentor, and advise other process engineers and other discipline engineers
- Other duties as assigned

Requirements:

- BS in Chemical Engineering, Chemistry, Petroleum Engineering, or a similar field.
- 10+ years of experience as a Senior Process Engineer
- 5+ years of experience serving as an approver of process designs
- Proficient in Systems Safety Assessments and Failure Analysis.
- Demonstrated problem solving and troubleshooting skills.
- Office software skills (document, spreadsheet, and presentation).
- Willingness to work in an Ubuntu GNU/Linux computing environment.
- Must have the ability to communicate efficiently and coordinate between Project Management, engineering teams, suppliers, and customers.

Additional beneficial skills/experience:

- PE Registration in Colorado, or the ability to acquire within 12 months.
- Experience in a chemical processing environment, especially higher pressure and hydrogen-based applications
- Hands-on lab skills in assembly, prototype and test environments.
- Excellent critical thinking skills
- Strong teamwork skills
- Ability to function and thrive in a startup environment.
- Ability to self-direct and drive to aggressive milestones
- High attention to detail
- Solid interpersonal skills
- Desire to learn with high adaptability

Hiring Manager:

Systems 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.