



## Process Engineer

Full Time Opportunity; Alameda, CA

### About Noble Thermodynamics

Driven by our mission to radically and quickly reduce the world's carbon emissions and accelerate the transition away from fossil fuels, Noble Thermodynamics is bringing to market its breakthrough in power generation technology offering zero-carbon, dispatchable, and affordable power. Our technology is a reciprocating engine with no exhaust!

We seek to grow our team with individuals who share our core values of professional excellence, perseverance, integrity, and team spirit, and who strive to build strong and genuine relationships with their peers. Most importantly, we celebrate diversity, work to achieve equity, and are committed to creating an inclusive environment among our growing team.

Noble Thermodynamics is a cleantech R&D startup rooted in Berkeley, CA backed by the U.S. Department of Energy, the U.S. National Science Foundation, the California Energy Commission, and top-tier industry and academic partners. More information can be found at [www.noblethermo.com](http://www.noblethermo.com).

### Position Summary

Noble Thermodynamics is looking for a passionate and motivated Process Engineer to support the R&D of our advanced power generation technology. In this role, you will be responsible for the integration of key mechanical components and assemblies including mechanical actuators, sheet metal, high pressure/temperature piping/tubing systems, powertrain components, fasteners, and other components. You will follow best practices, employing PFD, P&ID, and design for assembly, to achieve the best outcomes. You will work closely with other modeling, electrical, control, and test engineers to cost-effectively rapid prototype

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components, generate P&ID documents, prepare manufacturing instructions, and interact with outside part and fabrication service providers. You will participate in the test system design, assembly, and operation when necessary. This role demands a team-spirited individual, able to coordinate and collaborate with a multidisciplinary team and assist on multiple projects simultaneously.

## Responsibilities

- Develop detailed specifications of key mechanical components and validate components specifications.
- Prepare the necessary engineering drawings (viz. GA, P&ID, process flow) following best practices and preparing manufacturing instructions to communicate effectively with outside fabrication service providers.
- Source supplies and equipment provider bids and quotes. Competitively procure adequate components that meet specifications.
- Perform quality inspection of manufactured components.
- Support troubleshooting efforts around mechanical-electrical-software integrated systems.
- Interact with simulation, design, and control engineers to create and validate specifications of the complete system.
- Participate in assembly, fabrication, and operation of experimental facilities.
- Contribute to the generation of innovative ideas and develop project plans.

## Qualifications

- Ph.D. in Mechanical/Chemical Engineering or an MS in a similar engineering field from an accredited institution with 2-5 years of relevant experience.
- Fluent in Visio or other P&ID software and Autodesk Fusion360 or comparable CAD software.
- Demonstrated experience with the Engineering Design Process.
- Demonstrated experience with piping and tubing system design, assembly, and corresponding industrial standards (ANSI/ASME, ASTM).
- Demonstrated experience preparing bill of materials.
- Effective verbal and written communication skills.
- Demonstrated ability to operate and thrive in a collaborative dynamic, fast-paced start-up environment.
- Driven and self-directed, enthusiastic contributor with the ability to drive decision-making within small teams.

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## Bonus Qualifications

- Experience with process flow simulation tools such as GT Power, Aspen+, or similar.
- Experience with CAD engineering drawings following GD&T best practices and preparing manufacturing instructions to communicate effectively with outside fabrication service providers.
- Demonstrated knowledge and experience working with engine components, and dyno testing assemblies.
- Strong understanding of the correlation between process simulations with physical experiments.

## Employment

Type: Full Time

Location: Alameda, CA.

Condition: Authorized to work in the United States.

## Benefits

Competitive salary, stock options, and 401k contribution.

Health, Vision, and Dental coverage.

Vacation, Holidays, Sick leave, and Parental leave Paid time off.

## Disclaimer

Noble Thermodynamic Systems, Inc. is an Equal Opportunity Employer and does not discriminate on the basis or perception of race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or any other consideration made unlawful by federal, state, or local laws.

It is company policy to perform background checks and review candidate references. In compliance with federal law, all persons hired will be required to verify identity and eligibility to work in the United States and to complete the required employment eligibility verification form upon hire. Noble Thermodynamic Systems, Inc. participates in the E-Verify Program.

## Keywords

P&ID, process, mechanical, chemical, startup, system, powerplant, engineer