



System Design Engineer

Full Time Opportunity; Berkeley, 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.

Position Summary

Noble Thermodynamics is looking for a passionate and motivated System Design Engineer to support the R&D of our advanced power generation technology. In this role, you will be responsible for the design, modeling, fabrication and integration of key mechanical components and assemblies including mechanical actuators, sheet metal, high pressure/temperature piping/tubing systems, high pressure shaft rotary seals, powertrain components, fasteners, and other components. You will follow best practices, employing thermal and structural FEA, CFD, design for assembly, and design for test in process, to achieve the best outcomes. You will work closely with other modeling, electrical, control, and test engineers to cost-effectively rapid prototype components, generate GD&T-compliant engineering drawings, prepare manufacturing instructions, and interact with outside fabrication service providers. You will participate in the test cell 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.

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Responsibilities

- Design, model, fabricate and integrate key mechanical components.
- Validate components specifications through a combination of solid and thermal FEA, and CFD and perform quality inspection of manufactured components.
- Prepare the necessary CAD engineering drawings following GD&T best practices and prepare manufacturing instruction to communicate effectively with outside fabrication service providers.
- Develop and design detailed specifications, including material usage and cost considerations.
- Create layouts and movable 3D CAD models to depict functional relationships of components and assemblies.
- Leads troubleshooting efforts around mechanical-electrical-software integrated systems.
- Contribute to the generation of innovative ideas and develop project plans.

Qualifications

- MS degree or higher in Mechanical Engineering or a similar engineering field from an accredited institution with 2-5 years of relevant experience.
- Fluent in Autodesk Inventor or comparable CAD software, including structural, thermal, and fluid FEA.
- Demonstrated knowledge and experience working with engine components, and dyno testing assemblies, and strong understanding of the correlation between process simulations with physical experiments.
- Demonstrated experience with piping and tubing system design, assembly, and corresponding industrial standards (ANSI/ASME, ASTM).
- Demonstrated experience preparing bill of materials with updated cost estimates for fabrication jobs.
- Demonstrated experience choosing optimum manufacturing processes and materials for specific fabrication jobs.
- Effective verbal and written communication skills

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- Demonstrated ability to operate and thrive in a collaborative as well as independent dynamic, fast-paced start-up environment.

Bonus Qualifications

- Demonstrated experience with instrumentation systems and basic power electronic circuitry.
- Driven and self-directed, enthusiastic contributor with the ability to drive decision-making within small teams.

Employment

Type: Full Time

Location: Berkeley, CA.

Condition: Authorized to work in the United States.

Benefits

Competitive salary and stock options.

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.