

Founder Engineer - Newlight

We are seeking a visionary and dynamic Founder Engineer to lead our technology Research and development efforts. As the first person on board, you will greatly impact the direction of technological innovation and the execution of our mission.

Newlight's mission is to accelerate the transition of the maritime industry to sustainable energy by making sustainable shipping affordable and focusing on the current fleet with hydrogen integration. Newlight develops a plugin for ships that reduces fuel consumption and emissions by injecting hydrogen as a dual fuel for existing engines.

What You Will Be Doing:

- Design and implement data acquisition systems, analyze collected data, and apply it to machine learning algorithms.
- 3D Modeling: Design and develop detailed 3D models of hydrogen system components using CAD software, ensuring precision and adherence to engineering standards.
- Simulation: Utilize 1D/3D simulation tools such as STAR-CCM+, GT-SUITE, and CONVERGE to conduct performance analysis, optimize designs, and validate hydrogen combustion and ML algorithm.
- Evaluate tests results to help improve predictive 1D/3D models and guide design improvements for better combustion performance and durability.
- DOE (Design of Experiments), and plan FMEA (Failure Modes and Effects Analysis).
- Coordinate with cross-functional teams to ensure seamless integration and operation of the system in real-world applications.
- Oversee the design, development, and deployment of Newlight's hybrid diesel-hydrogen plugin system.
- Theoretical and practical understanding of fuel properties, combustion processes, pollutant formation, and working knowledge of burner/combustor designs.

Requirements we seek:

- MSc in Mechanical Engineering, or in a related field.
- Strong background in mechanical and electrical systems.
- Experience with CAD software (eg, NX, SolidWorks).
- Experience with CFD tools Star-ccm, Gt suite, or CONVERGE
- Hands-on mentality, solution oriented.
- Knowledge in developing ML algorithms.

Ways To Stand Out:

- A Ph.D.
- Strong background in mechanical and electrical systems, particularly in the maritime or automotive sectors.
- Expertise in hydrogen technology and hybrid systems.
- Passion for environmental sustainability and a deep commitment to Newlight's mission of maritime decarbonization.
- Knowledge in working with Python/PyTorch, Next.js, LabVIEW, and MATLAB.
- Experience using Lloyd's register/DNV rules, regulations, and standards.
- Familiarity with ship engineering drawings.

Why Join Newlight?

- Opportunity to be a big part of Newlight's mission to accelerate the transition of the maritime industry to affordable, sustainable shipping with hydrogen integration.
- Opportunity to lead technological innovation in a cutting-edge field.
Join a skilled and passionate team committed to creating a positive impact on the environment.
- Collaborative and dynamic work environment offering abundant opportunities for professional growth, including potential advancement to team leader and technology leader roles.

To Apply:

Please send your resume and a cover letter outlining your qualifications and interest in the position to Recruiting@newlight.blue.