



Fulltime position Mechanical Design Engineer

APPLY:

joincalwave@gmail.com

Summary:

Positions: Mechanical Engineer

Location: Oakland, CA

Terms & Benefits: Full time, available immediately

How to Apply: Please with CV, Cover Letter and Portfolio to joincalwave@gmail.com

Position Details: CalWave's mission is to provide a solution to secure clean, affordable and reliable electricity and freshwater for coastal communities. CalWave is seeking a dynamic and innovative Mechanical Engineer to further advance CalWave's proprietary and high-performance wave energy converter technology to a commercial unit.

The selected individual will work closely with CalWave engineers and CalWave's world class industry and R&D partners (including UC Berkeley, Sandia National Labs, NREL, others) for the systems design (ranging from mechanical, electrical, instrumentation, controls and software design), manufacturing and testing of our drive train test bench and support activities leading towards manufacturing, build-out, and pre-deployment testing of our upcoming open water demonstration prototype. The ideal candidate should have industry and/or project expertise in mechanical engineering and demonstrate superior skills in CAD designing, systems engineering, product development, fabrication and machining, and assembly and commissioning of complex mechanical systems.

Responsibilities

- Design, fabricate and test of mechanical equipment from defining specification through quoting, procurement, assembly, bench testing, optimization and documentation.
- Drive architectural and design decisions from a holistic perspective to produce reliable mechanical and electrical systems to advance the overall system architecture.
- Directly support systems engineering efforts, participate in design reviews.
- Life cycle analysis of mechanical components and structures for marine applications.
- Static and dynamic nonlinear structural analysis - ultimate and fatigue strength, FEA
- Design and test load, strain, and other measurement systems and data analysis.
- Ability to perform quality reviews for detailed engineering documents and specifications
- Supplier management and management of PLM systems.
- Support team in all aspects of concept development, analysis, design and specification.
- Support procurement activities including component and supplier selection, manufacturing and factory acceptance testing of modules
- Support pilot installations in the field

Additional duties include supporting CalWave staff with the design and concept development of the next generation utility-scale drivetrain and associated design and testing. Willingness to take on tasks outside your usual domain and strong team players preferred.



Who should apply:

Graduates with a B.S. (or higher) in Mechanical Engineering, and candidates with other degree disciplines and mechanical design experiences with 2+ years of industry experience preferred. CAD proficiency is essential, and experience in fabricating, assembling, and commissioning mechanical components and systems is a big plus. Industry or applied experience, or work with on a practical engineering design teams is preferred. Experience with drive train design, power electronics, mechatronic systems preferred.

Location & Benefits:

Oakland, CA. Full-time. Competitive salary and equity options depending on experience. A health care supplement is included. Dynamic and impactful work environment. Snacks & coffee. Access to state of the art machine shop and training options (metal shop, mill, CNC, waterjet, welding, 3D printing, others).

Equal Employment Opportunity:

CalWave Power Technologies Inc. is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status. 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 document form upon hire.

Background:

CalWave Power Technologies Inc. (CalWave) is developing a game-changing next generation and patent pending Wave Energy Converter (WEC) to harness the vastly available, predictable and stable energy from ocean waves to serve coastal communities. CalWave spun out from UC Berkeley, graduated from Cyclotron Road at the end of 2016 and was awarded by DOE US Wave Energy Prize. In 2017, CalWave was awarded for a multi-million demonstration contract by the US DOE and received support by Breakout Labs and the Sustainable Ocean Alliance. In January 2019, CalWave received an additional multi-million dollar award by DOE contract to build a commercial scale drive train in parallel to our open water demo.

Wave power has the technically achievable potential to power 20-30% of US and EUs electricity needs. According to the US DOE the Wave Energy Technical Resource Total US is 898-1229 TWh/year (22-30% of demand)

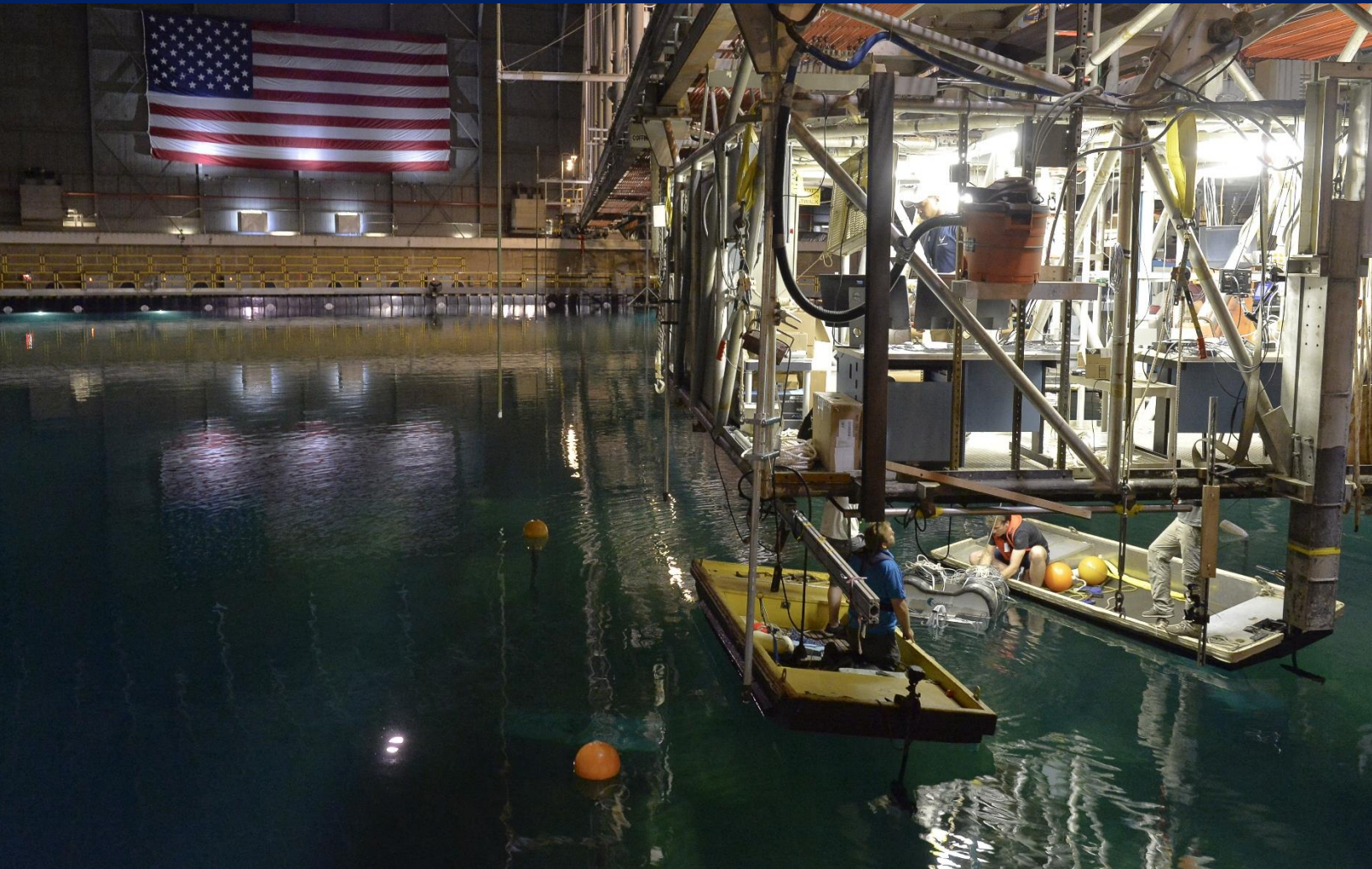
Environmental impact and sustainability are a critical concern of CalWave.

The 2018 STATE OF KNOWLEDGE FOR ENVIRONMENTAL EFFECTS and the 2016 State of the Science report summarizes and places in context information about the environmental effects of marine energy systems, to the extent that the information is currently available.





Waves to Watts and Water –
Sustainable, Affordable and Reliable



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