

Position: Ocean Engineer
Location: Oakland, CA
Compensation: \$80k/year +
Terms: Full time, available immediately

Position Details:

CalWave's mission is to provide reliable, cost-effective ocean wave technologies for sustainable energy access. Our team members are active learners who enjoy working on tough technology problems in massive markets and embody our values of humanity, excellence, and creativity. The company is backed by several development contracts with the U.S. Department of Energy and committed investors.

CalWave is seeking a dynamic and innovative Ocean Engineer to further advance CalWave's proprietary and high-performance wave energy converter technology to multi-unit commercial-scale deployments. The selected individual will work closely with CalWave engineers and world-class industry and R&D partners (including UC Berkeley, Sandia National Labs, NREL, and others) to lead the system structural design of CalWave's Wave Energy Converter hull and support design evolution and refinement of overall system architecture and associated systems. The ideal candidate has industry and/or project expertise in naval architecture and structural engineering and can demonstrate superior skills in CAD designing, structural design, design for manufacturing, structural analysis including FEA for strength, buckling and fatigue analysis, hydrodynamic stability of ocean going structures and vessels. Experience with hydrodynamic analysis software AQWA, WAMIT®, etc. is a plus.

Responsibilities:

- Design and engineering of offshore structures with focus on performance, fabrication and cost optimization.
- Life cycle analysis of mechanical components and structures for marine applications.
- Static and dynamic nonlinear structural analysis - ultimate and fatigue strength, FEA
- Ability to perform quality reviews for detailed engineering documents and specifications
- Supplier management and management of PLM systems.
- Preparation of fabrication drawings for offshore structures
- Support team in all aspects of concept development, analysis, design and specification.
- Support systems engineering efforts, participate in design reviews.

Qualification:

- Minimum qualifications BS in ocean engineering or naval architecture or or related field
- 3-5+ years of experience in marine industry
- Proficient with CAD software, Solidworks preferred
- Experience in FEA such as ANSYS, ABAQUS or others
- Experience with standards for offshore structures such as IEC TS 62600, ABS FOWTI/FPI/MODU, BV ROU, DNV OS and/or API RP2A
- Strong problem solving and analytical skills
- Passionate team worker with self-starter and entrepreneurial spirit
- Currently residing in or willingness to relocate to the San Francisco Bay Area preferred. Remote work considered for this position on a case by case basis.

Location & Benefits:

Oakland, CA, (Currently WFH). Full-time. Competitive salary and equity options depending on experience. Health care and retirement plan contributions included. Dynamic and impactful work environment.

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.

At CalWave, we are working toward a 100% renewable energy future for everyone in the world. We are committed to creating an inclusive environment for all our employees and are seeking to build a team that reflects the diversity of the people we hope to serve with our revolutionary products. CalWave is proud to be an equal opportunity employer.

Company Background:

CalWave's vision is to unlock the power of ocean waves to secure a **clean energy future**. Our mission is to provide reliable, cost-effective ocean wave technologies for sustainable energy access. Our proprietary wave energy converter technology achieves high performance while surviving storms and extreme conditions by operating fully submerged at all times.

CalWave's Major Milestones:

- In 2016, CalWave spun out from UC Berkeley (**Mechanical Engineering** and **CITRIS Foundry**), graduated from **Cyclotron Road** and **was a winner of the**

Department of Energy's (DOE) US Wave Energy Prize. And won a **multi-million dollar DoE contract** in 2017 for an open ocean trial.

- In 2019, CalWave received two additional multi-million dollar awards by DOE to **1) build a commercial scale drive train** in parallel to our open water demo and **2) design the next generation of our submerged pressure differential WEC** and investments from **Breakout Labs, High Tide Foundation, 1517 Fund** and others.
- In 2022, followed by the successful **long-term field trial of our San Diego open ocean pilot**, CalWave received a **\$7.5M award from the US DOE** with the goal to install and operate a grid connected system at **PacWave**, a new 20 MW rated wave demonstration site in Oregon.

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.