



**Position: Electrical Engineer**

**Location: Vista, CA 92081**

**Job Description:**

Seatrec has an immediate opening for an electrical engineer to support the design, development, and production of novel ocean energy harvesting technologies. The ideal candidate will be a motivated self-starter with several years of relevant post-undergraduate work experience, demonstrated technical capabilities and outstanding communication and interpersonal skills. The successful applicant will work with the Seatrec engineering team on multiple simultaneous objectives ranging from fundamental research to product development and production for customers in the research, defense, and commercial sectors.

If you love engineering and are committed to ocean exploration and sustainability, this is a perfect opportunity to make your impact on the world.

**Position Responsibilities:**

- Apply engineering principles and practices to the design, development and production of underwater energy harvesting systems and related electromechanical devices
- Work with minimal supervision on assigned tasks to meet defined deadlines
- Engage constructively and professionally with a small and dynamic engineering team working on multiple simultaneous projects
- Design and fabricate instrumentation, data acquisition and power distribution electrical wiring on electromechanical laboratory test systems
- Design and review electrical schematics and PCB layouts for low-power consumption, high-efficiency control boards for energy harvesting products
- Develop processes for specifying, implementing and testing reliable and reusable embedded firmware
- Write monitoring and control software for laboratory prototype and product development
- Assist in planning field testing of prototypes and development systems
- Analyze and present lab and field test results in concise and compelling formats

**Position Requirements:**

- BS or equivalent in electrical engineering or related field from an accredited university
- At least 3 years of relevant post-undergraduate work experience
- Exceptional written and verbal communication skills
- Familiarity with hand tools for wiring, soldering
- C programming
- Git version control system
- MATLAB and LabVIEW
- Serial communications protocols such as RS-232, RS-485, CAN, I2C, SPI
- Valid driver's license

**Desired Experience:**

- Experience with MSP430 and STM32 microcontroller architectures
- Familiarity with AUV, ROV, and underwater sensor and interconnect technologies
- Knowledge of ocean sciences, related underwater industries, and unique marine-environment engineering challenges
- US Citizenship or permanent residence and the ability to travel worldwide

This is a full-time position including paid-time-off benefits and a 401K plan. The successful candidate will work with the engineering team at Seatrec's Vista, CA facility. To apply, please submit your resume and cover letter to [jobs@seatrec.com](mailto:jobs@seatrec.com).