



**Position: Embedded Firmware Engineer**

**Location: Vista, California**

**Job Description:**

Seatrec has an immediate opening for an embedded firmware engineer to support the design, development, and production of autonomous profiling floats powered by ocean thermal energy. The ideal candidate will be a motivated self-starter with 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 to custom solutions for academia, industry, and defense. If you love engineering and are committed to the sustainability of the oceans, this is a perfect opportunity to make your impact on the world.

**About Seatrec:**

Seatrec designs and manufactures energy harvesting systems that generate electricity from naturally occurring temperature differences in the environment. Seatrec's first commercial product is used to power autonomous profiling floats, resulting in the most scalable, cost-effective deep ocean data collection possible. Our goal is to extend the lifetime of these floats in over two-thirds of the world's oceans, where there are sufficient temperature differences between warm waters at the surface and cold waters at depth. We are headquartered in Vista, CA.

**Position Responsibilities:**

- Specify and develop embedded code for control, monitoring, and communications of ocean-going energy harvesting platforms
- Apply engineering principles and practices to reduce time to market and exceed users' expectations
- 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
- Write monitoring and control software for laboratory prototypes and test setups
- 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 electronics or computer engineering or related field from an accredited university
- C/C++ programming
- Focus on simple and robust code development
- Exceptional written and verbal communication skills
- Valid driver's license

**Desirable Capabilities:**

- Experience with NXP Kinetis microcontroller architectures
- Experience with FreeRTOS
- Python scripting
- Familiarity with the ocean sciences, related underwater industries, and unique marine-environment engineering challenges
- MATLAB and LabVIEW
- Git version control system
- US Citizenship or permanent residence and the ability to travel worldwide



This is a full-time position including paid-time-off benefits and a retirement package. The successful candidate will work with the engineering team at Seatrec's Vista, CA facility. For more information, visit us at [www.seatrec.com](http://www.seatrec.com) and @seatrecinc.

**Equal Employment Opportunity:**

Seatrec provides equal employment opportunities to all employees and applicants for employment and prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, sexual orientation, or any other characteristic protected by federal, state or local laws.

**Application:**

To apply, please submit your resume and cover letter to [jobs@seatrec.com](mailto:jobs@seatrec.com).