



The engine that drives Nortek is its multi-talented, global team, comprised of people who are authorities in their field. A world-class design and development group, a client-facing sales team with direct technical industry experience, and a spirited support and production team define our ability to serve as well as collaborate with our customers. We are growing – do you want to have fun and make an impact? Do you want to work in a pioneering field with global reach?

## Embedded System Engineer - Del Mar

### Job Description

Nortek designs, develops and produces scientific instruments that apply the Doppler principle to underwater acoustics in order to measure water in motion, such as currents and waves. We provide truly innovative, robust, and accurate instruments, backed up by advanced software and comprehensive support to ensure customers maximize value from their measurements. Our solutions make a big difference.

Nortek is opening up a center of excellence in Del Mar, California, that will focus on acoustic velocimetry, a class of scientific instrumentation used in ocean and lake research. The center will develop, manufacture, and support a new product line that will be sold and supported worldwide. The development will include the latest advances in transducer technology, hardware design, and signal processing algorithms.

We are looking for a firmware programmer with a solid system understanding who can handle complex systems that include low-power electronics, signal processing, sensor conditioning, storage devices, and serial and ethernet communication protocols. You will be part of a team of developers that will have 100% focus on the task and that will be responsible short and long term for the final product.

Preferences will be given to candidates who have worked on instrumentation design in the past, but we welcome candidates who have a strong interest in working on all aspects of modern electronics.

### Requirements

#### The ideal candidate should have prior experience that includes

- Three to five years embedded firmware design and implementation in an industrial or manufacturing setting.
- Expertise in Digital Signal Processing, from design through implementation, testing and debugging.
- Experience with embedded C-programming and RTOS.
- Coding modules to handle multiple simultaneous digital and analog I/O devices.
- Interaction with FPGA programmers to improve system performance.
- Prior participation in the selection of architecture and processing platforms.
- A Bachelor's or Master's (preferred) degree in electrical or computer engineering, or related field.

#### Additional experience

- Highly motivated, Organized, resourceful and persistent.
- Proven ability to work independently and think creatively to solve problems.
- An interest in markets such as oceanography, coastal engineering, marine science, fisheries, subsea vehicles, offshore energy, or hydraulic laboratories.



**Musts**

- US citizenship or eligibility to work in the US prior to job commencement
- Professional demeanor, team-minded attitude, and genuine interest in project success

**Employee benefits include**

- Health, vision, and dental insurance
- 401k with matching contributions
- Paid vacation, holidays, and sick leave

**Contact person:**

**David W. Velasco, MSc**

*Principal Program Manager*

+1 760 575 9796

[david.velasco@nortekgroup.com](mailto:david.velasco@nortekgroup.com)

