



Job Description

Effective Date: 01/07/2010

Job Title: Design Engineer
Reports to: Environmental Sensors
Engineering Lead

Job status: Exempt
Pay range: DOE

Who: (Beliefs, values, characteristics, attitude)

- Strong critical thinking skills—the ability to self-teach.
- Self-motivated and self-directed with high sense of urgency.
- Strong work ethic—honors responsibility and commitment.
- Open minded and practical.
- Diligent and thorough—follows through.
- Enthusiasm for electronics and science.
- Hands-on.
- Team player with good interpersonal skills.

Responsibilities: (Results)

- Develop hardware and software for product calibration and test.
- Support current product calibration and test gear.
- Support engineering changes to existing products and designs.
- Develop hardware and software for environmental sensor products.
- Design new/custom versions of existing products.
- Validate product performance and reliability.

Requirements:

Education: BSEE or equivalent.

Experience: 3+ years experience with a strong background in C, embedded C, and assembly language programming, and scripting. Design of microcontroller circuits doing analog to digital conversion, reading frequency based inputs, and PWM outputs.

Preferred: Experience working under a Linux development environment. Design experience with the Atmel AVR, Intel 8051, or ARM processors. Background with environmental sensors and/or sensing technologies. Experience with OrCAD schematic capture, gnuplot, gcc, avr-gcc, shell scrips.