



## **Job Description**

Effective Date: 7-30-2010

**Job Title:** Senior Design Engineer  
**Reports to:** Environmental Sensors  
Engineering Manager

**Job status:** Exempt  
**Pay range:** DOE

### **Who:** (Beliefs, values, characteristics, attitude)

- Ability to conduct research, to self-teach and mentor other engineers.
- Self-motivated and self-directed with high sense of urgency.
- Strong work ethic – honors responsibility and commitment.
- Open minded and practical.
- Relentlessly pursues zero defects.
- Diligent and thorough – follows through.
- Enthusiasm for electronics and science.
- Hands-on.
- Team player with good interpersonal skills.

### **Responsibilities:** (Results)

- Design analog and digital hardware for environmental sensor products.
- Develop firmware for environmental sensor products.
- Develop hardware and software for product calibration and test.
- Develop new versions of existing products.
- Validate product performance and reliability.

### **Requirements:**

*Education:* BSEE

*Experience:* 10+ Years Experience in design engineering. Strong background in C programming, embedded C programming, assembly language programming, and scripting. Design of microcontroller based embedded products doing analog to digital conversion, reading frequency based inputs, and PWM outputs. Strong foundation of programming and product development under Linux or Unix OS.

*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, octave, gcc, avr-gcc, perl, lua, and shell scripts.