

# FLOW WORX

**COMPANY:** FlowWorx Energy

**POSITION:** Firmware  
Development Engineer

**EXPERIENCE:** 8+ Years

**EDUCATION:** BS degree in Computer  
Science or Engineering

**EMPLOYMENT TYPE:** Full Time Employee

**LOCATION:** Houston, Texas

## OVERVIEW

FlowWorx Energy is looking for a professional Firmware Development Engineer to develop, test and maintain firmware for the microcontroller at the core of our products. In addition, the engineer will develop, test and maintain a graphical user interface for communicating with our product.

## RESPONSIBILITIES

- Design and implement firmware of embedded devices and systems from requirements to production and commercial deployment
- Design, develop, code, test and debug system software
- Review code and design
- Analyze and enhance efficiency, stability and power conservation
- Integrate and validate new product designs
- Support software QA and manufacturing engineering
- Provide postproduction support
- Interface with hardware design and development

## REQUIREMENTS

- Proven working experience in software engineering

- Experience in hands-on development and troubleshooting on embedded targets
- Solid programming experience in C or C++
- Proven experience in embedded systems design with preemptive, multitasking real-time operating systems
- Familiarity with software configuration management tools, defect tracking tools, and peer review
- Excellent knowledge of OS coding techniques, IP protocols, MODBUS protocol, interfaces including RS485, RS232, SPI, I2C and USB, and hardware subsystems
- Adequate knowledge of reading schematics and data sheets for components
- Strong documentation and writing skills

## THE PREFERRED CANDIDATE WILL ALSO HAVE:

- Experience with the MSP430/432 family of microcontrollers
- Experience with IAR tools and Code Composer Studio
- Experience with wireless systems and cloud computing
- Familiarity with BSAP, Enron Modbus, Fieldbus, HART, MQTT and DSP protocols
- Working knowledge of LabView software.
- Experience with Oil and Gas Measurement, AGA 3, 7, 8 and API 21.1

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**DIVERSITY STATEMENT (EEO):** We are an equal opportunity employer that recognizes the value of a diverse workforce. All suitably qualified applicants will receive consideration for employment based on objective criteria and without regard to the following (which is a non-exhaustive list): race, color, age, religion, gender, national origin, disability, sexual orientation, gender identity, protected veteran status, or other characteristics in accordance with the relevant governing laws.