

## **Job opening: Embedded Firmware Engineer (Real-Time, Embedded Firmware for Micro-controllers and DSPs)**

### **Job Description**

X-wave Innovations, Inc. (XII) is a Research and Development (R&D) firm headquartered in Gaithersburg, Maryland. We conduct state-of-the-art research and product development in the fast evolving areas of Sensor Technology, Ultrasound, Nondestructive Evaluation/Structural Signal Processing, Wireless Sensor Networks, and Power Electronics for Battery Management Systems. We are looking for a highly self-motivated Embedded Firmware Engineer. Good writing/communication skills are expected, as well as excellent work ethics and attention to detail. **Must be US citizen or Permanent Resident.**

- B.S, M.S. or higher preferred, in EE, CS, or closely related field with 5+ years of experience in DSP and Microcontroller firmware implementation, real-time system firmware/hardware design & development.
- Excellent C/C++ for embedded systems development is a must
- Experience in Real-Time Operating System (RTOS) environments for embedded systems and debugging a must
- Good software design practices, such as state machines and UML knowledge considered an asset
- Knowledge and experience with lab equipment: Oscilloscopes, power supplies, spectrum analyzers
- Experience in a small R&D organization is desired. We are looking for a *self starter and proactive person* to work and contribute on the exciting technologies we are creating

### **Job Duties**

- Design and develop firmware for micro-controllers and DSPs
- Test bench testing using oscilloscopes, function generators, etc.
- Assist writing technical reports and assist with research proposals

### **Education**

B.S., M.S. and Ph.D. EE, CS, Physics, or related field

We offer competitive salary along with a full benefit package (e.g., medical/dental/vision insurance, 401K, profit-sharing, paid holidays, vacation, etc.). XII is an EEO/AA employer.