

**Position:** Computer Engineer  
**Objective:** Responsible for specifying, designing and testing embedded subsystems that support the company's wireless research and development projects  
**Department:** Wireless Research and Development  
**Report To:** Chief Scientist  
**Education:** B.S. in Computer Engineering or Electrical/Electronics Engineering  
**Experience:**

- 4-5 years of experience in the field
- BS in computer science, computer engineering or electrical engineering and specific experience with embedded systems
- Circuit design, Analog sensors design, mixed signal circuit boards design
- Board-level design verification using PSA, VSA, NWA, and other equipment as required
- Class A and A/B power amplifier circuits
- Component selection and qualification
- Interface design and specification between analog/RF and embedded controller
- Creation of accurate simulation models
- Directing and performing electronic tests, receive blocking, sensitivity, phase noise, and BER
- Programming of embedded firmware routines, engineering tools, and test utilities utilizing assorted programming languages as required
- Writing software and firmware for embedded microcontrollers/microprocessors. (C / C++)
- Electronic and mechanical instrument experience desired

**Requirements:** This position requires good planning, time management and organizational skills. Candidate must be strongly detail-oriented and possess excellent communication skills for trouble shooting problems.

**Location:** Position is available in Port Townsend, WA  
**Work Hours:** Full-Time, M-F  
**Availability:** Immediate

---

### **Overall Responsibility Summary:**

#### **Development of new hardware products and Maintenance of existing company hardware products**

- Supervise PCB layouts
- Document design including theory of operation, subsystem design requirements, subsystem interface and control
- Write algorithms for PLL control used in embedded firmware
- Write software to perform subsystem control, RF tests, radio calibration, hardware drivers, and other code as needed for both embedded platform and PC
- Research
- C / C++ Applications

#### **Testing**

- Develop test strategies
- Perform stress and performance testing
- Verification and validation tests in the lab and in actual operating environment

#### **Documentation**

- Hardware Design Documentation
- Product Design Documentation