

**Position Summary:**

Southwest Windpower is looking for an experienced **Software Engineer** to actively support the team in product development. The ideal candidate has experience in the small wind industry.

The Software Engineer will report to the Director of Engineering and work closely with the Vice President of Engineering and the rest of the Engineering Department to contribute to the product roadmap. This position requires a candidate with strong organizational skills, who uses sound business judgment in the performance of the job, and possesses the initiative to resolve problems.

This is an opportunity to become a key contributor at one of the most exciting companies in renewable energy.

Responsibilities:

- Microcontroller coding for embedded controller – ST Microelectronics platform (F103 32-bit):
 - Wind turbine controller algorithm
 - Battery-charger algorithm
 - Serial communication (USART, SPI)
 - SD card
 - Display
 - ZigBee communication protocols, etc.
- Monitoring board – data acquisition card based on Atmel / ST platform with ZigBee modules
- Application wind turbine algorithms – coding in C language using PIC platform
- Software (code) documentation

Experience:

- 3+ years of demonstrated experience in the industry

Education:

- BSc / MSc degree in computer science

Skills:

- Experience with C/C++ coding
- Serial communication protocols (experience with RS232, RS485, XBee, SPI, JTAG, etc.)
- Windows software development (Visual C++, LabView, GUI, etc.)
- Embedded microcontrollers development: PIC, ST Microelectronics, Atmel, Texas Instruments
- Linux development experience
- Ability to gather and analyze information with attention to detail, accuracy, and thoroughness
- Must have the ability to share and present information effectively to managers and co-workers



Other:

This position will be housed in the company's Broomfield, Colorado, office.

Background:

Southwest Windpower has been designing and distributing small wind turbines since 1987 and is the recognized global leader in the design, manufacture, and distribution of small wind and wind-solar hybrid systems (160-3000 watts). The company has been a pioneer in the development of wind technology and has built and shipped more than 170,000 systems to 120 countries worldwide and has sales representation in over 88 countries. The company operates a sales office and distribution center in Cologne, Germany, and a joint venture in Ningbo, China. Applications for Southwest Windpower systems include residential homes, commercial properties, micro grids, remote cabins, telecom transmitters, offshore platforms, water pumping and sailboats. Southwest Windpower is the manufacturer of Skystream, Whisper and AIR distributed wind systems.

On the Web: <http://www.windenergy.com>

Facebook: <http://facebook.com/SouthwestWindpower>

Twitter: <http://twitter.com/swwindpower>