



**Title: Principal Electronic Engineer, Project Manager**

Skills: Engineering, electrical, electronic, system, development, schematic capture, board layout, SPICE modeling, Altium, Protel, Pro-E, Solid Works, design, analog, digital, power inverters, Solar technology, alternative energy systems, battery back up systems, grid tie interconnect systems. Manufacturing, process control, ISO and 6-Sigma standards.

**Date:** 10-30-2007

**Location:** San Diego, CA

**Tax term:** FULLTIME

**Pay rate:** Competitive / Stock Options

**Length:** Regular Full-time

**Job description:**

Helix Wind Corporation is a rapidly growing start-up company that is developing advanced vertical wind turbines and energy storage systems which bring clean, affordable electricity to consumers and commercial markets world wide.

We are currently looking for a motivated, results & team-oriented individual capable of taking a concept from design to prototype to full production in a fast paced, out-of-the-box, creative thinking environment. A strong sense of urgency to save our natural world is paramount.

This position is located in: San Diego, California and requires travel to China, Europe and Latin America.

**Responsibilities:**

- Provide technical leadership & mentoring of product development process working with an international team of aeronautical, mechanical and manufacturing engineers.
- Provide technical leadership in new product design, modification of existing products, production technique improvement & test procedure development.
- Take action to move projects from inception to fruition.
- Review and/or prepare engineering qualification tests procedures & associated data sheets.
- Ensure completeness of all documentation & on-floor production training to assure smooth transition from product design & testing into manufacturing.
- Oversee manufacturing engineering function related to manufacturing cost reduction or quality improvement.
- Advise management of new developments which may affect scope, schedule, costs, customer relations, and/or inter-departmental relations.
- Active hands-on involvement in meeting team milestones/deliverables.
- Ensure consistency in design reviews, verification & qualification efforts.
- Accountable for technical completeness of team's design output.



- Foster creativity & innovation in design solutions.
- Oversee assembly & troubleshooting of functional prototypes.
- Provide guidance in test plans & testing of prototypes.
- Support designs through tooling & into production.
- Complete & release production documentation

#### **Qualifications:**

- Bachelors degree in Electrical/Electronic Engineering or equivalent experience.
- Masters degree preferred.
- 10 years experience in electronic systems development, experience in the wind energy space a plus.
- Deliverables (results) oriented & team oriented with a strong desire for hands-on work.
- Excellent verbal & written communication skills.
- Ability to write technical specifications, develop device and system level specification for internal use and/or external vendors or consultants.

#### **Experience in the following areas:**

- Power systems engineering.
- Design of complex electronic energy systems, including system engineering, analog/digital, **AC-DC Inverters**, **permanent magnet generators** and charge controller integration.
- Experience working with electro / mechanical engineers for parts and system integration, heat sink design.
- Interfacing with outside vendors, consultants, & driving external design resources.
- High volume design & manufacturing (1000 - 50,000 units) using overseas production facilities.
- Proficiency in use of Schematic capture and board layout and SPICE modeling.
- Proficiency in use of Pro-E and or Solid Works 3D modeling and collaboration.
- Previous use of Altium (Protel) schematic capture and board layout.