

XP Power is a major supplier of critical power conversion technology to the medical, technology, industrial markets. We are a fast-growing company listed on the London Stock Exchange. We are looking for self-motivated professionals who thrive in dynamic environments. We are proud of and committed to our culture that values Customer Focus, Flexibility, Knowledge, Speed, and Integrity. Joining our team means you will work in a high performing global company where employees collaborate and strive for excellence.

Job Title: *Senior Power Supply Design Engineer*

Reports to: *V P of engineering*

Location: *Tustin, California*

Employment Type: *Full-time*

Position Summary:

This position is within the standard product development group Tustin, CA., is responsible including development of proven designs using modelling, simulation, and hardware testing. Determines design approaches and parameters. Analyzes equipment to establish operating data, conducts experimental tests and evaluates results. Selects components and equipment based on analysis of specifications and reliability.

Key Responsibilities:

- Design of AC/DC switch mode power supplies utilizing various electrical topologies.
- Hands on design validation experience including impedance and loop phase/gain measurements, precision noise measurement, and load transient response.
- Design and development of power supply products from concept to volume production whilst ensuring that the design meets performance specifications, cost & reliability targets.
- Complies with required regulatory standards.
- Adheres to Design for Manufacture (DFM) guidelines.
- Liaising with cross-functional team (PCB layout, Mechanical engineering, Manufacturing and Quality engineering) to facilitate the design process.
- Liaising with international manufacturing locations during development and product infancy to maximize production yields.
- Selection of raw materials, components and suppliers based on product performance specifications, reliability and regulatory requirements.
- Participation in internal design reviews.
- Design Verification Testing.
- Technical Report writing.
- Electrical design of new and modified products, ensure products designs are cost effective and design for manufacturing.
- Performs cost analysis and produces cost estimates.
- Directs customer support.
- Performs complex bench or DV test for the qualification of products.
- Performs reliability prediction calculations and reports.
- Responsible for root causes analysis on products, technical problems and documentation.
- Excellent verbal, written, and presentation skills.
- Performs other duties and responsibilities when required.

Key Qualifications and Skills:

- Minimum of a Bachelor's degree, Master's degree preferred in Electrical Engineering with 15+ years of related experience.
- Must understand business strategies and have a high level of understanding for the business flow.
- Experience working with magnetics and practical design of custom transformers and inductors, including planar magnetics.
- Knowledge of power conversion principles, topologies and soft switching techniques and technologies.
- Experience of designing EMI filters / PCB layouts for minimum EMI.
- Self-motivation, initiative and drive.
- Working knowledge of circuit design and simulation.
- Experience in modelling, simulation, and testing of power electronics.
- Through understanding of control theory.
- Ability to write and analyse design documentation.
- Strong project management experience and supervisory skills.
- Ability to make economic judgments with respect to product cost and manufacturing process.
- Excellent verbal, written and organizational skills.
- Excellent mathematical and analytical skills.
- Ability to work in a fast-paced environment and complete tasks with minimum supervision
- Analytical - Collect and research data using intuition and experience to compliment that data.
- Problem Solving - Identify and resolve problems in a timely manner; gather and analyses information skilfully; develops alternative solutions; works well in group problem solving situations; uses reason even when dealing with emotional topics.
- Leadership - exhibit confidence in self and others; inspire and motivate others to perform well; effectively influence actions and opinions of others; accept feedback from others; give appropriate recognition to others.
- Cost Consciousness - work within approved budget; develop and implement cost saving measures; contribute to profits and revenue; conserve organizational resources.
- Motivation - set and achieve challenging goals; demonstrate persistence and overcome obstacles; measure self against standard of excellence;
- Planning/Organizing - prioritize and plan work activities; use time efficiently; set goals and objectives; develop realistic action plans.
- Professionalism - approach others in a tactful manner; react well under pressure; treat others with respect and consideration regardless of their status or position; accept responsibility for own actions; follow through on commitments.
- Quality Management - look for ways to improve and promote quality; demonstrate accuracy and thoroughness.
- Innovation - display original thinking and creativity; meet challenges with resourcefulness; generate suggestions for improving work; develop innovative approaches and ideas.
- Oral Communication – in English, speak clearly and persuasively in positive or negative situations; listen and get clarification; respond well to questions; demonstrate good presentation skills; participate effectively in meetings.
- Written Communication – in English, write clearly and informatively; edit work for spelling and grammar; vary writing style to meet needs; present numerical data effectively; able to read and interpret written information.

Benefits:

In addition to competitive salary, XP Power offers a comprehensive benefits package, which includes company sponsored health insurance coverage, and a 401K plan. Non-financial benefits include a friendly work environment

To apply, please send your resume with cover letter and salary expectation to:

Alexandra Galvez - HR Generalist

Email: vacancies@xppower.com

XP Power is an equal opportunities employer.

For further background on the company please visit www.xppower.com.