



BTL is one of the major manufacturers of medical equipment globally. BTL's major segments include Rehabilitation & Orthopedics therapy, Cardiovascular systems and Aesthetics medicine.

BTL India focusses on the end-to-end research & development of new medical devices for global market, from idea to serial production at our manufacturing facilities in Europe.

BTL India development center is looking for a passionate **Hardware Engineer** with **3 to 6 years** of experience to join our **R&D Improvement and Support team**, which play a major role in ensuring continued design support to post market releases.

ROLES AND RESPONSIBILITIES

As part of the R&D team, should be able to perform the following duties as assigned by Manager/Leads to support the team's goals but not limited to the following:

- Understanding the hardware design & requirements of the system/product
- Perform root causing of production and field issues/failures
 - Understand the technical issues and drive the root cause analysis.
 - Collaborate with engineering and production to provide solutions.
 - Work on closures in line with commitments
- Implement mitigations for components obsolescence/supply chain issues:
 - Provide timely solutions to prevent production stop situations
 - Identify alternate components based on design requirements & component specification/datasheet comparisons
 - Perform evaluation & testing as needed for alternate qualifications
- Perform necessary hands-on testing at circuit level / module level / product level to evaluate the hardware performance for identified HW design changes.
- Work on circuit simulations, schematics entry, BOM management and PCB layout reviews as needed.
- Support in design change implementations through Engineering Change Orders (ECO)
- Support in product safety & compliance testing and country registrations for products in production.
- Work efficiently with cross functional and production teams to deliver the assigned task/project with quality within the timelines.
- Production testing - understanding current production test methods and support for development of new fixtures / tools needed for identified improvements
- Do design and test documentation for the developed design.

ESSENTIAL QUALIFICATION AND EXPERIENCE

QUALIFICATION:

- BE/Btech/ME/Mtech in Electrical/Electronics/Biomedical engineering or equivalent
- 3 to 6 Years of experience in working with Hardware designs

TECHNICAL COMPETENCY:

- Strong in fundamentals of Analog and digital electronics

- Familiar with the concepts of Microcontrollers / Microprocessors operation and the hardware requirements for designing circuits using them.
- Understanding of power management systems - DCDC (Buck/Boost) and LDOs
- Knowledge of hardware design for communication protocols like UART, SPI, I2C, RS232, USB
- Proficient in component selection for circuit design
- Experience in using common lab equipment like DMMs, Oscilloscopes, power supplies, Signal generators
- Understanding of production process of PCB assembly & production testing
- Familiar with CAD tools like Altium or equivalent for circuit and PCB design

BEHAVIORAL COMPETENCY:

- Good analytical skills
- Passion for success and being proactive
- Systemic and going in-depth approach
- Be flexible, hands-on and willing to learn new technologies
- Be a good team player, with good collaboration skills.

ADDITIONAL QUALIFICATION AND EXPERIENCE

- Circuit simulation experience (LT spice or equivalent)
- Familiar or exposure in EMI/EMC testing
- LabVIEW knowledge is an advantage

The 2013 incepted BTL India R&D center in Bangalore is the second largest R&D center and an important arm of the 1993 founded established brand, BTL originally from the Czech Republic, a global innovator of Medical and Aesthetic Solutions. BTL India is a complete R&D center focused on medical product developments in areas of Cardiology, Physiotherapy and Aesthetics.

BTL boasts 50 plus unique products in the market with its in-house marketing and sales in 55+ countries across the globe. BTL has four R&D centers and two manufacturing units in Europe while BTL India R&D center was started 8 years ago to add more products under the BTL product portfolio to support its growing market demands.

The philosophy of the company is to create technologically unique products with high added value, top quality and original industrial design..

