



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 motivated **Hardware Engineer** with **4 to 8 years of experience** to join the R&D team as *Design Engineer II* to work on the Design and Development of new medical devices.

## **ROLES AND RESPONSIBILITIES**

As part of the New Product Development (NPD) team, the candidate should be able to perform the following duties as assigned by the manager or leader to support the team's goals, but they are not limited to the following:

- Responsible for understanding the hardware requirements of the system/product.
- Undertake conceptual studies by designing & building feasibility prototypes at module or system level.
- Work on circuit design, circuit simulations, schematics entry, BOM management, PCB design and layout reviews
- Perform necessary hands-on testing at circuit level / module level / product level to evaluate the hardware performance.
- Create design and test documentations for the developed designs
- Understand the identified technical issues and work on their closures
- Work efficiently with hardware, software and mechanical development teams to deliver the assigned task/project with quality within the timelines.

## **ESSENTIAL QUALIFICATION AND EXPERIENCE**

### **QUALIFICATION:**

- BE/Btech/ME/Mtech in Electrical/Electronics/Biomedical engineering or equivalent
- 4 to 8 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.
- Knowledge of communication protocols like UART, SPI, I2C, RS232, USB
- Know-how on power supply designs: DC- DC converters (Buck/Boost/Fly-back/LDOs)
- Tool competency: Circuit simulation tools, Schematic & Layout tools: Altium or similar

- Experience in using lab equipment like DMMs, Oscilloscopes, power supplies, Signal generators, LCR meter and Electronic load.

#### **BEHAVIOURAL 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 COMPETENCY/EXPERIENCE**

- Exposure to high voltage (1kV) and magnetic component selection/design
- Experience in working on products with multi-board architecture is an advantage
- Knowledge on cable harness specification creation & its manufacturing process
- Awareness of EMI/EMC tests and design for its compliance.

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.

