



BTL India development center works on cutting edge technologies to design, develop & release new medical devices into the market. We are looking for dynamic hardware professionals (Design Engineer & System Specialist) with experience between 4-10 years 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 of system level, hardware design & requirements of the system/product
- Lead the investigation 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 as per commitments
- Own and execute 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.
- Responsible in design change implementations through ECO
- Own and implement new feature developments, compliance testing and country registrations for products in production. Responsible for planning, coordinating and implementing considering the timeline, capacities and cost impact etc.
- Work efficiently with cross functional and production teams to deliver the assigned task/project with quality within the timelines.
- Production testing – Responsible in fixture and tools development needed for production
- 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
- 4 to 10 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

### **BEHAVIORAL COMPETENCY:**

- Good analytical skills
- Passion for success and being proactive - Take risk and time sensitive approach.
- 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
- Understanding of Production, Regulatory and Standards

BTL is a global leader in the field of development and production of medical devices for physiotherapy and is a well-respected company within the field of cardiology and aesthetics with a constantly growing share of the worldwide market. The development center in Prague currently employs more than 100 people. We have two factories in Europe where our broad product portfolio is produced from which it is distributed under the BTL brand name to more than 100 branches and business partners around the world. From its establishment in 1993 the company has been building up a complex technological know-how across a wide spectrum of fields. The philosophy of the company is to create technologically unique products with high added value, top quality and original industrial design.

