



# BTL India

BTL India is looking for an Mechanical Design Engineer (3-5 years experience) for the Design & Development of Medical Devices. The Mechanical engineer will be working on new product development & will be responsible to plan, design & execute all mechanical design requirements as assigned project lead from ideation through development and production transfer.

At BTL India we are creative, solve complex interdisciplinary tasks and quickly master new technologies. The key to success in our company is honesty, trust, willingness to help each other and desire to pro-actively work on oneself.

## ROLES AND RESPONSIBILITIES

As part of the R&D team, the employee should be able to perform following duties to support the team's goals but not limited to the following:

- Actively participate in following product development activities – Concept design, planning, design development & execution stages of new products.
- Analyze, interpret and establish design requirements based on marketing inputs & available technical data.
- Work closely with cross functional teams including Industrial design, Electrical, Marketing and purchasing teams.
- Research design options and perform experiments to determine potential design feasibility.
- Prepare clear, concise and accurate conceptual/design models & drawings, defining tolerances, fits, clearances & space requirements
- Conduct & actively participate in Design reviews.
- Interact with global and internal design and manufacturing teams to design for manufacturability, reliability and cost-effectiveness.
- Prototyping and Testing
- Design Verification/ Validation of the devices.
- Production documentation support.
- Pre-production, Pilot and Production support.
- Ensure all mechanical engineering activities are executed as per the development procedure.

## ESSENTIAL QUALIFICATION AND EXPERIENCE

- **QUALIFICATION:**
  - Bachelor's degree or Masters in Mechanical Engineering or Product design (Mechanical) with 3-5 years and worked in Product Design and Development environment.
- **TECHNICAL COMPETENCY:**
  - Experience in design of Electro-Mechanical products (Ex: Medical devices, Consumer appliances)
  - Able to work independently & experience with working in cross functional teams.
  - Familiar with standard machine shop practices, sheet metal fabrication, injection molding and electronic packaging.
  - Experience in selection of materials & various finishing processes.

- Ability to perform Design calculations using first principles, knowledge in GD & T & tolerances stack up analysis.
- Experience with rapid prototype and different prototyping techniques for building proof of concept and Functional prototype for testing.
- Good analytical & logical thinking skills for problem solving, identify the technical risk and mitigating them systematically.
- Hands on Experience with CAD software's like Solid works with exposure to surface modelling, skeleton model/Master model concept.

● **BEHAVIOURAL COMPETENCY:**

- Excellent Analytical and problem-solving skills.
- Self-motivated and passion to finish (fire in belly).
- Flexible, hands-on and willing to explore work in out of comfort zone area & learn new technologies.
- Interest in problems related to system level that not confined to only mechanical stream.
- Good team player with good collaboration skills.

**ADDITIONAL QUALIFICATION AND EXPERIENCE**

- Worked for Medical devices product development.
- Experience with Medical Device safety standards, ISO 13485, Design controls or similar regulatory environment and QMS.
- Exposure to solving Thermal related issues & and basic knowledge of FEA/Structure analysis.

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.

