

Mechanical / FEA Design Engineer

Accountabilities

Produce concept and detailed CAD models and assembly drawings using 3D CAD (SolidWorks)

Use Finite Element Analysis tools for mechanical and acoustic designs using COMSOL

Product design and development and provide practical engineering solutions that are cost effective

Provide design calculations and tolerance analysis in support of design (hand and FEA) with written reports where necessary

Creation of technical file including Bill of Materials, Specification of equipment sub systems, Components selection, Engineering Change, testing and support to manufacturing during product life cycle.

As valued member of the engineering team you will need to design for manufacture and support regular design reviews where design verification and validation is very important.

Provide input on product support issues to promote and maintain flow of revenue by participating in investigations, containment, corrective, preventive, improvement, inspection and cost reduction activities.

Liaise with suppliers, customers, users and colleagues.

Drive activities to meet project delivery requirements.

EDUCATION:

- Degree in Mechanical Engineering or equivalent experience

- **ESSENTIAL KNOWLEDGE, SKILLS AND ABILITIES**

- Minimum 5 years experience in mechanical engineering design.

- Good FEA skills (COMSOL preferred)
- Good CAD skills (SolidWorks preferred).
- Dedicated, diligent and takes ownership
- Good problem-solving skills and a creative approach for new ideas
- Organised with good time management skills – delivers to deadlines and budget constraints.
- Excellent written and verbal communication skills.
- Analytical, creative thinker and problem solver.
- Team Player.