

Terms of Reference

About Andhra Pradesh Medtech Zone (AMTZ)

Andhra Pradesh MedTech Zone (AMTZ) is India's premier medical technology manufacturing cluster and one of the world's largest MedTech ecosystems, housing **180+ companies** engaged in the research, development, and manufacturing of life-saving medical devices. Built in a record **342 days**, AMTZ offers world-class common manufacturing and scientific facilities, including advanced testing laboratories, 3D printing, laser, biomaterial, and irradiation centers. During the COVID-19 pandemic, AMTZ played a critical national role by producing **100+ ventilators, 500 oxygen concentrators, and 1 million RT-PCR kits per day**, while also deploying innovative solutions such as mobile hospitals, RT-PCR vehicles, and oxygen plants to strengthen healthcare delivery across India

Company Website:

<https://www.amtz.in/>

<https://kiht.in/>

<http://biovalley-amtz.in/>

<https://medivalley-aic.in/>

Job Title

Scientist: COE-AM (Design Engineer - Medical Device Tooling)

Key Responsibilities

1. Design injection molds (single-cavity, multi-cavity, family molds) using advanced CAD tools.
2. Lead design reviews, manage revisions, and ensure manufacturability and tool life considerations.
3. Conduct simulations for mold flow, cooling, ejection, and stress behavior
4. Generate BOMs, 2D/3D drawings, and tolerance documentation for tooling.
5. Interface with clients to understand clinical and functional requirements.
6. Collaborate with vendors for outsourced mold components and material specs.

Qualification & Experience

1. Minimum Qualification: The candidate must have a B.E. or B.Tech in Mechanical Engineering or Tool Design; a master's degree in CAD/CAM is preferred.
2. Years of Experience: A minimum of 2 to 5 years of experience in mold and die design is required.
3. Technical Skill Set: Proficiency in SolidWorks or Creo, GD&T, and mold flow simulation tools are essential.

4. Domain Expertise: Prior experience in designing injection molds for medical or precision components is mandatory.
5. Age Limit: The candidate should be no older than 40 years. Qualification: B:Tech or higher
6. Computer literacy including advanced proficiency with Microsoft Office (Excel, Word & PPT).
7. Excellent communication and presentation skills, analytical, problem-solving skills and interpersonal abilities, Decision-making, excellent oral and written communication skills in English.
8. Must have Team Spirit, Agility, Leadership, Initiative, time management, prioritizing and the ability to handle a complex and varied workload.
9. Must maintain confidentiality and discretion in all aspects and be comfortable with flexible working schedule to meet the needs of the Company.
10. Ability to handle urgent matters, multiple tasks, simultaneously and quickly complete the assigned tasks.
11. Willingness to Travel.
12. Age up to **30** years.