

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 – (CNC)

Key Responsibilities

1. Develop, modify, and optimize CNC programs for VMC and CNC Turning Centers using CAM software.
2. Perform machine setup, tooling selection, work holding, and prove-out of new programs.
3. Read and interpret engineering drawings, GD&T, and technical specifications.
4. Select appropriate cutting tools, feeds, speeds, and machining parameters.
5. Conduct first-off inspection and ensure components meet dimensional and quality requirements.
6. Troubleshoot machining and programming issues to improve productivity and reduce cycle time.
7. Monitor machine performance and recommend process improvements.
8. Perform routine preventive maintenance and coordinate machine upkeep.

9. Maintain production records, tooling inventory, and program documentation.
10. Follow ISO 9001/ISO 13485 quality standards and safety procedures.
11. Work closely with Design, Quality, and Production teams during new product development.

Qualifications & Experience

1. Education: Diploma/ B.Tech in Mechanical Engineering or Tool & Die Engineering.
2. Experience-4-6 Years of Experience in Relevant Field.
3. Experience with Haas, Mazak, DMG Mori, Fanuc, Siemens, or Mitsubishi controllers.
4. Experience in medical device component manufacturing is an advantage.
5. Strong knowledge of CNC programming (G-code & M-code).
6. Experience with CNC VMC and CNC Turning Centers.
7. Experience with CAM software (Mastercam, SolidCAM, NX CAM, PowerMill or similar).
8. Knowledge of GD&T, tooling, fixtures, cutting parameters, and machining strategies.
9. Experience machining Aluminum, Stainless Steel, Mild Steel, Titanium, and engineering plastics.
10. Proficiency with precision measuring instruments.
11. Problem-solving and troubleshooting skills.
12. Willing To Travel
13. Age Up to 35 Years