

Designation	3D Modeller
Experience	03-08 Years
Education	BE/DME/ITI/Piping Course
Remuneration	Commensurate with capabilities and Experience
Location	Pune

Domain

- Engineering Design Services – Advanced Piping Design, 3D Plant Modeling & Multidisciplinary Plant Engineering for Chemical, Power, and Process Industries.

Key Responsibilities

- Lead preparation and review of Piping GA Layouts, Isometrics, Support Drawings, and Fabrication Drawings.
- Develop and validate MTO/BOM, ensuring alignment with material specs and project requirements.
- Design and develop piping systems using AutoCAD Plant 3D software.
- Perform advanced piping routing in 3D tools (Plant 3D) and extract high-quality deliverables.
- 3D Modeling related to Equipment, Piping and Civil/Structures using AutoCAD Plant 3D.
- Interpret and integrate P&IDs, vendor data, equipment layout drawings, and process requirements into optimized piping designs.
- Identify clashes, design conflicts, accessibility, and maintainability issues and resolve them through close coordination with process, mechanical, civil, and instrumentation departments.
- Ensure compliance with ASME/ANSI/API, client specifications, and internal modeling/drafting standards.
- Lead 3D Model Review Meetings, incorporate comments, and support constructability/ discussions.
- Provide site support for routing feasibility, clarifications, and as-built updates.
- Mentor Draughtsman and Designer-I in design practices, software, standards, and quality control.
- Drive best practices, standardization, and continuous improvement in piping design workflows.

Key Skills

- Expert-level proficiency in AutoCAD, Plant 3D modeling platforms.
- Strong understanding of piping materials, supports, stress requirements, and fabrication/erection constraints.

- Excellent knowledge of P&ID interpretation, equipment interfaces, and multidisciplinary coordination.
- Advanced skills in MTO preparation, revision management, and quality assurance of design deliverables.
- Strong analytical and problem-solving abilities for complex routing challenges.
- Ability to handle large-scale projects, manage priorities, and deliver high-accuracy outputs.
- Strong communication, leadership, and mentoring skills.
- Familiarity with site challenges, constructability, and practical installation requirements.