

Job Description – CAD Engineer

Company: Techvibes Systems Private Limited

Position: CAD Engineer

Experience: 2–5 Years

Qualification: Diploma / Degree in Mechanical Engineering

Location: Pune

Employment Type: Full-Time

About Techvibes Systems

Techvibes Systems is a technology company working in **Engineering Software, CAD/CAE, Manufacturing Technology, Simulation, Automation, AI/ML and Industrial Digitalization**. We work with manufacturing and automotive organizations to implement engineering and manufacturing technology solutions.

Job Summary

We are looking for a **CAD Engineer** with 2–5 years of experience and a strong foundation in **mechanical engineering and engineering drawings**. The candidate should be able to independently read, interpret and understand **2D mechanical drawings**, including dimensions, views, annotations, tolerances and manufacturing requirements.

Experience working with **automotive OEMs, Tier-1/Tier-2 suppliers or other engineering/manufacturing companies** will be an advantage.

Key Responsibilities

- Read and interpret **2D mechanical/engineering drawings** accurately.
- Understand and interpret:
 - Orthographic and sectional views
 - Dimensions and dimensional schemes
 - Engineering drawing annotations
 - Geometric Dimensioning & Tolerancing (GD&T)
 - Fits and tolerances
 - Surface finish symbols
 - Welding and manufacturing symbols
 - Datums and feature references
- Review drawings and identify relevant **design and manufacturing information**.
- Support CAD modelling, drawing creation and modification activities.
- Work with engineering teams to understand **product design and manufacturing requirements**.

- Convert/interpret engineering information between 2D drawings and 3D CAD models where required.
- Participate in customer discussions, technical meetings and project reviews.
- Understand customer requirements and communicate them internally to the technical team.
- Support implementation and training activities related to CAD/engineering software.
- Maintain proper documentation of customer requirements, project activities and technical observations.

Required Skills

Essential:

- Diploma or Degree in **Mechanical Engineering**.
- 2–5 years of relevant industry experience.
- Strong ability to **read and understand 2D engineering drawings**.
- Fair to good knowledge of:
 - Engineering drawing standards
 - Drawing annotations
 - Views and sections
 - Dimensions
 - Tolerances and fits
 - Basic GD&T
- Good understanding of basic mechanical engineering concepts.
- Ability to understand and discuss engineering requirements with customers.
- Fair **verbal and written communication skills**.
- Willingness to travel to customer sites when required.

Preferred / Added Advantage:

- Experience with **automotive OEMs, Tier-1 or Tier-2 suppliers**.
- Knowledge of **3D CAD software** such as Solid Edge , Siemens NX, or similar.
- Experience in automotive component/product design.
- Knowledge of manufacturing processes such as machining, sheet metal, forging, casting or fabrication is added advantage – Not essential
- Experience working directly with engineering or manufacturing customers.

Candidate Profile

The ideal candidate should be a **hands-on mechanical engineer** who is comfortable working with engineering drawings and interacting with customers. Strong drawing-reading capability is more important than having advanced software skills.

The candidate should demonstrate:

1. 2D Drawing - Reading and Understanding
2. Interpret Tolerances/GD&T
3. Understand Manufacturing Requirement
4. Communicate with Customer
5. Support Technical Solution

Interview Assessment

The selection process can include a **practical drawing test** covering:

1. Reading a 2D automotive/mechanical drawing.
2. Identifying different views and sections.
3. Interpreting dimensions and tolerances.
4. Identifying basic GD&T symbols and datums.
5. Explaining the manufacturing/design intent of a component.
6. Basic 3D CAD modelling/modification test, if applicable.
7. A short customer-interaction/technical communication assessment.

Suggested Job Title:

CAD Engineer

This profile can be positioned particularly well for Techvibes' **CAD/CAE and engineering software implementation, customer support, training and pre-sales activities**, rather than as a pure CAD drafting role.

The CTC offered - 3-6 Lakhs PA