

ENGINEERING CAD DESIGNER

Job Title	ENGINEERING CAD DESIGNER	Department	Engineering and Projects
Reports to	Head Of Engineering and projects	Grade	
Direct Reports	<ul style="list-style-type: none"> N/A 		
Job purpose:			
<p>This main purpose of this role is to ensure that designs are well-thought-out, efficient, and compliant, leading to the realization of innovative solutions and the organization's continued growth and success.</p>			
Key responsibilities:			
<ol style="list-style-type: none"> 1. Design Development: Use CAD software to create detailed 2D and 3D engineering models, translating conceptual designs into precise technical drawings for light gauge structures, and echo houses, 2. Collaboration: Work closely with engineers, architects, project managers and construction managers to understand project requirements, provide design insights, and ensure seamless coordination throughout the design process. 3. Innovation: Contribute to the development of new design concepts and product improvements, leveraging your creativity and engineering expertise. 4. Technical Documentation: Generate comprehensive technical drawings, blueprints, and specifications that adhere to industry standards and regulations. 5. Design Optimization: Analyze designs for performance, functionality, and manufacturability, making necessary adjustments to optimize the final product. 6. Quality Assurance: Conduct thorough design reviews to identify and resolve potential issues or discrepancies. 7. Project Management: Collaborate with cross-functional teams to manage project timelines, track progress, and ensure timely completion of design milestones. 8. Cost-Effectiveness: by optimizing designs for efficiency and manufacturability and assist in reducing project costs and improving the organization's overall competitiveness. 			

9. Continuous Improvement: Stay up to date with the latest advancements in CAD design technologies, materials, and construction methodologies to continually improve design processes.
10. Communication: Communicate effectively with team members and clients to understand project objectives and deliverables.
11. Contribute to the continuous improvement of design processes and efficiency within the CAD department.
12. Participate in design reviews, offering insights and suggestions for design improvements.
13. Any other responsibilities that may be assigned to the job holder by the supervisor from time to time.

Requirements:

- Education: Diploma in Building and Construction, civil engineering, Architecture, or related field.
- Experience: 2 years of Proven experience with a strong portfolio showcasing your structural design projects.
- Software Proficiency: Proficient in using CAD software such as Frame CAD, Autodesk Revit, Tekla Structures, or similar tools.
- Technical Skills: In-depth knowledge of structural engineering principles, building materials, and construction methods.
- Problem-Solving: Strong analytical and problem-solving skills to identify and resolve design challenges effectively.
- Detail-Oriented: Meticulous attention to detail to produce accurate and error-free FRAME designs.
- Collaborative Team Player: Ability to work collaboratively in a multidisciplinary team environment.
- Time Management: Excellent time management skills to meet project deadlines and handle multiple tasks simultaneously.

Competencies

Technical competencies

- Ability to interpret structural and architectural drawings.

- Working knowledge of CAD software.
- Ability to take site measurements.
- Ability to undertake structural designs.

Behavioral competencies

- Exceptionally self-motivated and directed.
- Exceptional service orientation.
- Demonstrated business acumen.
- Outstanding communication (written and verbal), interpersonal and facilitation skills.
- Ability to influence, collaborate, deliver and partner at senior levels in the organization.
- Ability to work well with people at all levels in the organization.
- Analytical, creative thinking and problem-solving skills.

Working Conditions

Is exposed to minimum disagreeable conditions in the environment. The jobholder has normal office facilities that include own workstation and access to a laptop.

Job holder/Supervisor details

Name of jobholder:

Date:

Name of Supervisor:

Date: