



Job Title: Design Engineer
Department: Design

Reports to: General Manager
Last Updated: July 13, 2022

Job Summary: The CEI Design Department is responsible for the creation of the custom architectural facade systems and features of projects at CEI. The CEI Design Engineer is the individual that creates and designs the panel systems for production using the tools of the department. From the creation of a Preliminary Drawing set to the Final Design of the panels for Production, the Design Engineer will use software such as Revit, AutoCAD, and other proprietary software to generate an accurate and quality product. To facilitate this, they are also responsible for coordinating closely with the Project Management and Production Departments to ensure client's expectations are managed and met.

Essential Functions:

Shop Drawings

- Attend and actively participate in project specific meetings with Project Management to discuss the scope and specifications of a project and its design requirements
- Assist in managing the schedule of the design in each project assigned
- Work with Project Management staff and use computer aided design software (i.e. Revit and AutoCAD) to create a preliminary set of drawings that will be submitted to the client for their approval.
- Responsible for incorporating changes and modifications to the drawings as per architectural intent and client's specifications at the direction of the Engineering staff and Project management at CEI.

Fabrication & Installation of Drawings

- Responsible for taking a set of Preliminary Shop drawings and using as-built dimensions of the building to create a very accurate representation of how the panel systems will be installed. Using 3D models, Revit, AutoCAD and learned knowledge of CEI panel systems to ensure that every condition on a building is accounted for in the installation of said panels.
- Assist Project Management staff in the creation and adjustment of details and design ideas to improve as-built project conditions or installation of panels.
- Use Revit and/or AutoCAD with the assistance of proprietary software to create panels from a 3D Model of the building in accordance with the intent of our approved shop drawings.
- Use the model and drawings to create every panel's fabrication data and provide that data to the Production Department for fabrication, assisting and answering questions as necessary to ensure accurate production.
- Create and provide a complete set of drawings designed specifically to assist personnel in the field with the layout and installation of the panel systems.
- Other duties as assigned by supervisor.

Knowledge Skills and Abilities:

- Exceptional organization skills and good attention to detail
- Excellent Problem-Solving Ability
- Exhibit character and work ethic consistent with the CEI culture
- Ability to work in a fast-paced environment, while ensuring accuracy of products

Working Conditions: General office environment, 85%. Shop Environment 15%. Involves significant time sitting and working at a computer keyboard and on the telephone. Also involves walking, stooping, and bending. Required to follow the shop PPE requirements.



Minimum Qualifications:

- Bachelor's degree in design architecture or equivalent related experience
- Highly Proficient in Revit and AutoCAD
- Proficient in the use of Microsoft Office software (Excel, Word, etc.) as well as, PDF software (Bluebeam, Adobe, etc.)
- The ability to read and interpret Contract Documents such as architectural drawings, specifications, supplemental instructions, etc.
- Proficient with 3D modeling software such as Inventor, etc. is a plus, but not required
- Experience working with laser scanning technology and point cloud data is a plus, but not required
- Experience in construction and/or manufacturing industries preferred

Success Factors:

- Customer Commitment
- Accountability from the Top-Down
- Respect for each other
- Integrity and Honor
- Top Notch Quality
- Growth through Innovation

Email your Resume to [Angie Kennedy](#), HR Manager