



Job Title: Senior Design Engineer
Department: Design

Reports to: Design Manager
Last Updated: February 25, 2026

Job Summary: The Senior Design Engineer oversees the full lifecycle of architectural façade system design, from shop drawings to installation drawings. This position combines hands-on technical design expertise with leadership and quality assurance responsibilities. The Sr. Design Engineer manages a team of Design Engineers, ensures deliverables meet CEI's standards and client expectations, and drives collaboration between departments including Estimating, Project Management and Production. This role plays a critical part in CEI's ability to deliver high-quality, custom architectural panel systems by aligning people, tools, and processes across all phases of design.

Essential Functions:

- Lead and manage the Preliminary and Final Design phases, overseeing scheduling, resource allocation, and Design Engineer supervision.
- Coordinate the work of Design Engineers to ensure alignment with project goals, timelines, and client specifications.
- Collaborate with Project Management and Production to ensure the design is feasible, meets installation requirements, and aligns with project schedules.
- Work with Project Management staff and use computer aided design software (i.e. AutoCAD, Revit, SolidWorks) to create a preliminary set of drawings that will be submitted to the client for their approval.
- 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, AutoCAD, Revit, SolidWorks and learned knowledge of CEI panel systems to ensure that every condition on a building is accounted for in the installation of said panels.
- Use AutoCAD, Revit, and/or SolidWorks along with proprietary software to create panels from a 3D model based on approved shop drawings and generate detailed fabrication data for each panel to support the Production Department, providing assistance and clarification as needed to ensure accurate manufacturing.
- Provide technical support to Design Engineers for complex design challenges, assisting with the implementation of design solutions.
- Serve as a subject-matter expert on design software (AutoCAD, Revit, SolidWorks) and CEI's proprietary tools, ensuring accurate and efficient design processes.
- Ensure quality assurance by conducting quality assurance checks for shop, post-survey, fabrication, and installation drawings.
- Develop and maintain design templates and detail libraries to enhance team efficiency and standardization across projects.
- Track design issues, collaborating with Design Engineers and Project Managers to identify and resolve CPQ issues.
- Provide mentorship to junior Design Engineers, offering guidance on CEI standards, technical skills, and professional development.
- Coordinate with Estimating, Project Management, and Production to refine design solutions and adjust based on field conditions.
- Contribute to the development and enhancement of CEI's proprietary design software, offering insights and feedback for ongoing improvement.
- Implement process improvements to reduce error rates, increase productivity, and standardize best practices across the design team.



- Support the Design Manager and HR Manager in hiring and onboarding of new Design Engineers, ensuring they are trained on CEI standards and integrated into the team effectively.
- Support cross-departmental communication to ensure design intent is understood and implemented by all relevant teams.
- Contribute to the standardization of workflows, drawing sets, and methodologies to improve consistency across the design team.

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 with a minimum of 5 years' experience
- 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 Cornwell](#), HR Manager