



CASTCONNEX[®]

innovative components for inspired designs

Position:	Designer, Castings	Location:	Scarborough, ON flexible hybrid work schedule
Job Type:	Full-time, permanent (37.5 hours / week)	Salary:	\$70,000 - \$75,000 annually

About the Company

Founded in 2007, Cast Connex has grown to be a world leader in the design and manufacture of structural steel castings. Headquartered in Toronto, we also have satellite offices in New York City, San Francisco, Dallas, Raleigh, and London.

At **CAST CONNEX** we simplify the design and enhance the performance of structures by enabling Architects and Engineers, and Construction Professionals to use the cast steel connections we design and supply.

- We take pride in collaborating in the creation of safer, innovative, and more beautiful built environments.
- We are energized by the work of our collaborators who represent the top AEC firms in the world.
- We are the industry leader in the architectural and structural use of cast steel components in the design and construction of buildings, bridges, and other structures; we have designed and supplied more steel castings for architectural applications than any other firm worldwide.
- We are highly technically trained and professionally accomplished structural engineers with a passion for chasing the best solutions for AEC projects; we question, explore, and execute.
- Our ever-expanding line of standardized products includes pre-engineered connectors that simplify the design, improve the economy, and enhance the performance and aesthetics of structures.
- We offer design-build solutions for custom cast steel nodes and components with attention to the specific needs of any project.

Notable projects include: Sphere Las Vegas, Queen Richmond Centre West, Salesforce Transit Center, Vancouver International Airport, 2 PENN, 30 Hudson Yards, Academy Museum of Motion Pictures, Whitney Museum of American Art, Austin-Bergstrom Airport, Bermuda Airport, Charlotte Douglas International Airport, Fanny Appleton Pedestrian Bridge, The One, USTA Arthur Ashe Tennis Stadium, SoFi Stadium, and NASA's Mobile Launcher 2.

Visit us at www.castconnex.com

About the Role

Reporting to the Engineering Manager, the *Designer, Castings* role offers the opportunity to contribute to innovative structural solutions while developing real-world experience. In this position, you will collaborate with diverse, cross-functional teams on complex and meaningful engineering challenges, applying your knowledge in a dynamic environment that reflects our commitment to excellence and innovation. You will work with a team of industry-leading engineers who exemplify our culture of curiosity, technical rigor, and continuous improvement. This role is ideal for someone who is eager to learn, grow, and help advance our mission of delivering forward-thinking, high-performance solutions that shape safer, more beautiful, and more innovative built environments.



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About You

You are someone who is driven by insatiable curiosity and a genuine passion for learning. You excel in environments where you can explore new ideas, ask thoughtful questions, and push the boundaries of what is possible. With a solid grounding in engineering fundamentals, you approach challenges with creativity, analytical rigor, and a desire to contribute meaningful solutions. You're energized by collaboration, working closely with teammates, sharing ideas openly, and welcoming diverse perspectives. Highly organized and attentive to detail, you communicate clearly and show initiative in tackling new responsibilities. Above all, you are eager to grow, adaptable in the face of change, and motivated by the opportunity to contribute to innovative, high-impact structural solutions alongside leaders in the field.

Duties & Responsibilities

- Team collaboration: collaborate with the sales team to develop new and exciting component designs to address clients' architectural and structural needs
- Interpret construction documents: extract relevant information such as load conditions, material properties, frame geometries, and connecting member sizes
- Create casting models: create 3-dimensional design and modelling in SolidWorks considering factors such as shape, weight, castability etc.
- Prepare shop drawings: produce as-cast and machined shop drawings based on 3D models created
- Perform code-based calculations: follow the relevant steel design codes and standards, such as CSA S16 and AISC 360, to perform code-based calculation checks on casting components
- Conduct finite element analysis: evaluate stress and strain distribution within the component body using finite element analysis tool

Technical Capabilities

- Outlook, Microsoft Office Suite, Microsoft Teams.
- Familiarity with 3D modelling software (e.g., SolidWorks, Hyperworks) is considered an asset, but not a requirement.

Education and Experience

- Requires a Bachelor's degree in Engineering
- Relevant academic courses include: solid mechanics, steel design, concrete design, and dynamics.
- Good understanding of structural design basis for concrete, steel and wood.
- Knowledge of CSA standards.