

## Senior Mechanical Design Engineer

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Company: Celestica

Location: Canada

Category: production

**Summary**The Staff Engineer, Mechanical Design develops new mechanical systems/modules and maintains existing designs. Research mechanical concepts and create system solutions using 3D modeling and simulation software. Complete calculations and test, validate, and qualify their systems and make adjustments as needed. Provide support throughout the manufacturing process of the mechanical system that they have designed.The Staff Engineer, Mechanical Design works with cross functional teams of other engineers, customers, supply chain and project leadership to ensure robust and high quality product development. Enhance designs with feedback from reviews in areas such as manufacturing, test, supply chain, reliability, industrial design and simulations.**Detailed Description**Performs tasks such as, but not limited to, the following:Modeling and design of mechanical components, assemblies and structures including sheet metal, structural metals, die casting, extrusion, plastic, environmental sealing materials, fasteners and other materials.Mechanical design analysis including structural finite element analysis, design for assembly, design for manufacturability and design for testability.Collaborate with thermal, systems, electrical, sourcing, manufacturing and reliability engineers to bring designs from prototype into mass productionRoot cause corrective actions for issues related to design and manufacturingDevelop drawing packages and manufacturing work instructions for designsTake responsibility for non-technical elements of an engineering project (people, financials etc.).Review and interpret customer requirements/specifications and may act as primary customer contact?May manage relationships with key vendors/partners.Prepare calculations on the proposed solution before completing technical drawingsDesign, modify and implement systems that meet customer

and Celestica needs. E.g. Sketch and draw up designs using input from other engineers, requirements and input from design review (DFx) team Create designs in line with company procedure, regulations and client standards Submit drawings to management, engineering teams and customers for review. Use customer feedback and data to upgrade, improve or repair the company's existing machines Physical Demands Duties of this position are performed in a normal office environment. Duties may require extended periods of sitting and sustained visual concentration on a computer monitor or on numbers and other detailed data. Repetitive manual movements (e.g., data entry, using a computer mouse, using a calculator, etc.) are frequently required. Occasional travel may be required. Typical Experience 7-10 years of product development, preferably outdoor enclosure design experience in the energy storage industry Strong understanding of system design for assemblies or installations Knowledge of energy storage certifications and compliances Familiarity with NEMA and IP enclosure design and testing Strong technical communication skills Typical Education Bachelor's Degree Notes This job description is not intended to be an exhaustive list of all duties and responsibilities of the position. Employees are held accountable for all duties of the job. Job duties and the % of time identified for any function are subject to change at any time. Celestica is an equal opportunity employer. All qualified applicants will receive consideration for employment and will not be discriminated against on any protected status (including race, religion, national origin, gender, sexual orientation, age, marital status, veteran or disability status or other characteristics protected by law). At Celestica we are committed to fostering an inclusive, accessible environment, where all employees and customers feel valued, respected and supported. Special arrangements can be made for candidates who need it throughout the hiring process. Please indicate your needs and we will work with you to meet them. COMPANY OVERVIEW: Celestica (NYSE, TSX: CLS) enables the world's best brands. Through our recognized customer-centric approach, we partner with leading companies in Aerospace and Defense, Communications, Enterprise, HealthTech, Industrial, Capital Equipment and Energy to deliver solutions for their most complex challenges. As a leader in design, manufacturing, hardware platform and supply chain solutions, Celestica brings global expertise and insight at every stage of product development – from drawing board to full-scale production and after-market services for products from advanced medical devices, to highly engineered aviation systems, to next-generation hardware platform solutions for the Cloud. Headquartered in Toronto, with talented teams spanning 40+ locations in 13 countries across the Americas, Europe and Asia,

we imagine, develop and deliver a better future with our customers. Celestica would like to thank all applicants, however, only qualified applicants will be contacted. Celestica does not accept unsolicited resumes from recruitment agencies or fee based recruitment services.

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