



## Position Profile

Position Information			
<b>Position Title</b>	Senior Mechanical Engineer		
<b>Department</b>	CIB - Engineering	<b>Job Code</b>	
<b>Reports to (position)</b>	General Manager, Coulson Ice Blast	<b>Job Grade</b>	
<b>Month/Year Created</b>	May 2020		
<b>Month/Year Revised</b>			
Position Overview			
<i>Describe the purpose of the position in 2-3 sentences.</i>			
As Senior Mechanical Engineer, responsibilities will include management of the design, development, testing, integration and certification of mechanical systems for different aspects of the Coulson Ice Blast technology, related products and automated systems. This may include, but not be limited to, pressure vessel development and certification, refrigeration system design, fluid flow analysis and machine structural certification.			
Key Accountabilities			
<i>Describe the top 5-7 key accountabilities, in order of importance in 2-3 sentences each.</i>			
Description			
1. Responsible for the end to end lifecycle of projects, including the management of product design, development, testing, integration, and certification of mechanical systems			
2. Research cutting edge concepts and unique solutions to deliver new functionality, system efficiencies and safety			
3. Manage the research and manufacturing of mechanical devices and systems			
4. Estimate manufacturing project costs and timelines, and complete projects within allocated budget and timelines			
5. Prepare documentation of reports and project assessments as required			
Leadership			
<i>Select the level(s) of direct supervisory responsibility for this role.</i>			
<input type="checkbox"/> No direct supervisory responsibility			
<input checked="" type="checkbox"/> Provides guidance, leadership, mentoring or training to other employees (no direct supervisory responsibilities)			
<input type="checkbox"/> Directly responsible for supervising clerical or administrative employees			
<input type="checkbox"/> Directly responsible for supervising professional or technical employees			
<input type="checkbox"/> Directly responsible for supervising management level			
Education			
<i>Identify minimum education, designation, and/or licences required to fulfill requirements of the job</i>			
<b>Type</b>	<b>Area of Study</b>	<b>Required</b>	<b>Preferred</b>
High School Diploma		<input type="checkbox"/>	<input type="checkbox"/>
Certificate (1 year or less)		<input type="checkbox"/>	<input type="checkbox"/>
College, Trade or Tech School Diploma		<input type="checkbox"/>	<input type="checkbox"/>
Bachelor's Degree		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Professional Degree	Engineering	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Experience			
<i>Identify minimum number of years and specific experience required to perform this job.</i>			
<ul style="list-style-type: none"> <li>• Minimum of ten (10) years engineering experience</li> <li>• Experience in the manufacture sector is required</li> </ul>			



<ul style="list-style-type: none"><li>• Experience with leading teams and project management</li></ul>
<i>Describe other preferred experience required for the position, including length and in what capacity (i.e. operational, supervisory, management level, ect. )</i>
<ul style="list-style-type: none"><li>• Work experience in robotics and automation would be considered an asset</li></ul>
<ul style="list-style-type: none"><li>• Experience in the manufacturing sector with exposure to process engineering activities</li></ul>
<b>Technical Skills</b>
<i>List the key 3-7 specific technical skills required to be able to fulfill requirements of the job.</i>
<ul style="list-style-type: none"><li>• Familiar with Solidworks CADD and FEA software</li></ul>
<ul style="list-style-type: none"><li>• Familiar with formal analytical troubleshooting and problem solving</li></ul>
<ul style="list-style-type: none"><li>• Formal project management experience</li></ul>
<ul style="list-style-type: none"><li>• Experience with DFMEA and FMEA principles</li></ul>
<b>Attributes</b>
<i>Competencies for the position – See listed above</i>