



# SeaStar Solutions

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<b>Job Title:</b>	Process Development Engineer - CNC
<b>Job Purpose:</b>	<ul style="list-style-type: none"><li>• Provide CNC Applications/Engineering expertise in the design and implementation of production equipment and the development of production processes to support manufacturing in achieving on-time delivery of quality and cost-effective products.</li><li>• Support manufacturing in the continuous improvement of product quality, on-time delivery and cost-effectiveness.</li><li>• Train, coach and mentor other employees with other CNC classifications.</li></ul>
<b>Reports To:</b>	Manager, Machining Engineering Group
<b>Direct Reports:</b>	N/A
<b>Version:</b>	1.0 January 30, 2017

## Education & Experience

- University or Institute qualifications in Mechanical or Electro-Mechanical Engineering.

## Responsibilities

- Design and develop workholding fixtures, cutting tools and custom equipment for machining processes and in-process inspection.
- Determine and develop suitable and cost-effective machining processes based on part specifications and drawings.
- Provide manufacturability feedback to Design Engineering; participate in design for experiment studies to optimize design and tolerance for precision machined part performance, durability and CNC process capabilities.
- Participate in the full product development cycle: from requirements analysis, design, development, machining implementation, quality control, validation, documentation and on-going support.
- Work in multi-function/new product development teams to determine project plans, designs, and equipment requirements and to coordinate activities and report on project status.



- Conduct machining process design reviews, changes and approvals.
- Prepare documentation for CNC equipment such as cutting tool drawings, setup sheets, work procedures and inspection sheets.
- Set up and program CNC equipment and coordinate handoff to production.
- Train production personnel on how to use CNC equipment.
- Review existing machining processes for opportunities to improve or enhance.
- Interact with customers and suppliers and represent SeaStar Solutions.
- Complete additional job duties and assignments up to 15% of the time.

### Skills & Abilities

- Experience with 3D CAD modeling software: Pro/E, MasterCAM, and CutPro preferred.
- Intimate knowledge of metal machining theory.
- Experience with precision machining methods and controls, including milling, turning, forming, grinding, heat treating, and machine tool chatter avoidance.
- Experience with precision part measurement through the use of CMM, vision, part contouring, and surface finish measurement systems.
- Experience with ball and lead screw manufacturing will be an asset.
- Knowledge of high volume thread manufacturing methods will be an asset.
- Strong problem-solving and decision-making abilities.
- Strong mechanical aptitude.
- Strong hands-on skills.
- Strong proficiency with MS Office programs including: Word, Excel, Access, Outlook and PowerPoint; and the ability to learn other applications quickly.
- Must have real world experience working with individuals of diverse backgrounds and a respect for difference.
- Professional demeanor whether in person, via email or on the telephone.
- Excellent verbal and written communication skills in English.
- Ability to work well independently and as part of a strong team.
- Well-developed organizational skills with the ability to manage a variety of tasks.
- Familiar with electronic instrumentation/sensors & test equipment.
- Familiar with QFD, Design and Process FMEAs.

### Deliverables

- Machining process design, verification, validation, launch and support of CNC equipment.
- Machining process solutions that meet requirements and cost targets in a timely manner.
- Approved machining processes, process documentation, and project plans.



- As this position is constantly evolving, please speak with your supervisor/manager regarding daily, weekly and monthly objectives.

### Things to Know & How to Apply?

- This position is located at our Richmond, British Columbia, Canada facility.
- Occasional travel maybe required.
- SeaStar Solutions is an equal opportunity employer.
- If you are interested in this position, please send your cover letter and resume with the subject: 2018-012.
- Relocation assistance is not provided for this role.
- Only applicants legally eligible to work in Canada should apply. No foreign applicants will be sponsored.
- We look at each resume in detail, so please be sure to review the job description and highlight your experience in relation to this role.
- All candidates will be updated on the status of their application.
- To find out more about SeaStar Solutions, please visit our company website at: [www.seastarsolutions.com](http://www.seastarsolutions.com) or <http://canada.seastarsolutions.com/careers/>