

Drafting Technologist CAD / CAM

Why Zero Point Cryogenics

Do you have a passion for cutting-edge technology and the personality to work at a deep-tech company? Do you enjoy innovation and want to work on advanced technologies that are going to change the world? This is your opportunity to grow with a rapidly expanding deep-tech company, right here in Edmonton! We are a team of highly motivated, educated, and skilled individuals that work closely together to solve complex problems, and we want your input.

In our company, nobody is just a number. We put our people first, that's why one of our four values is 'Enjoy Life': work life and home life. At ZPC we work closely with all of our employees to build a flexible work schedule that meets their needs.

Our Values: ask us about them!

- We are going to make mistakes in the Pursuit of Innovation.
- When we share our thoughts and ideas our best products will be Built Through Teamwork.
- We hold each other accountable to ensure that nothing leaves our facilities that does not meet our highest Standard of Quality.
- We spend time every day on tasks that bring us satisfaction and purpose with the intent to Enjoy Life.

What we do

At Zero Point Cryogenics we are growing quickly and commercializing our core product, dilution refrigerators, which are the primary low-temperature platform for quantum computers and quantum technology research. We design, engineer, fabricate, assemble, test, and install state-of-the-art dilution refrigerators for our customers in quantum computing companies, as well as university and government labs. Born from a low-temperature physics research group, with a focus on low-temperature excellence, at ZPC innovation is in our roots. We are continuously improving our current systems and developing new systems to meet the varying needs of our customers.

Who we are looking for

*If you do not meet **some or all** of the below qualifications, and believe you would still be a strong candidate, **please apply.**

We are looking for a highly technical hands-on problem solver to fill the role of drafting technologist as part of our growing team. Our ideal candidate will be accustomed to working in

fabrication and assembly settings. They will be able to prioritize multiple concurrent projects and be passionate about doing so in a detailed and organized manner. Our design systems and manufacturing processes are paramount to ensure the quality of our products. While it will continue to be a team effort, our ideal candidate will take ownership of the designs and design systems in Autodesk Inventor 3D and also have the expertise to CAM the drawings using MasterCam software in preparation for machining, delegating when appropriate. This role is integral to our success as we commercialize our core product. The ideal person for this role is enthusiastic to step into this developing position and grow with us.

What you will do

Working closely with our Lead Scientist and IC&E team you will have the opportunity to help design, CAD and CAM our next generations of dilution refrigerators and other cryogenic products. We expect you to ask questions, learn, be open to growth, and attend technical training as required.

- Take instruction from the Scientists and Technologists designing the cryogenic equipment to 3D model assemblies of both purchased and in-house manufactured parts.
- Collaborate on designs utilizing unique materials and geometry based on their physical properties.
- Create drawings for externally manufactured components. Collaborate in quality control with manufacturing and purchasing when components are received.
- Responsible for the creation and administration of every assemblies bill of material within Inventor
- Work with the design team to institute design systems for inventory management, design version control, external vendor documentation, and integration with our manufacturing.
- Recommend new processes or systems for improvement; implement new ideas and strategies.
- Collaborate with manufacturing and assembly to as-built designs before product shipment.
- Keep a finger on the pulse of the future inventory needs with support from the director of procurement as we improve the design of our systems in an effort to identify and mitigate supply chain bottlenecks.
- Communicate performances and efficiencies with management.
- Ensure cleanliness, maintenance, and organization of your area
- Read manufacturer's manuals, drawings, and quality control specifications for storage and maintenance requirements.

You can succeed in this role if you have:

- Autodesk Inventor 3D – 3 Years of Experience
- Work experience drafting fabrication and assembly drawings for manufacturing
- Able to interpret and create design drawings
- Accurate and detail-oriented
- Technical design skills
- Solid experience with Microsoft 365 software (Outlook, Word, Excel, Teams) and Google Software (Docs, Sheets, Drive, Meet)
- Excellent time-management skills to meet firm deadlines and estimate drafting time
- Flexible, open thinker
- Able to solve problems in a cost-effective way – your drawings dictate how effective we are on our shop floor
- Able to propose improved ways of communicating and fabricating projects
- Motivation and work ethic to stay engaged in a fast-paced, creative problem-solving environment
- Willingness to help the team overcome obstacles even if it's not in your job description.
- Exceptional communication and interpersonal skills, both oral and written, with the ability to clearly articulate ideas and challenges with a collaborative attitude
- Sense of responsibility for technical quality of work, own your mistakes, and hold yourself accountable to continuous improvement
- Willingness to take on unfamiliar tasks and to help the team learn what you figure out
- Openness to respectfully take guidance and training from management and coworkers.
- A sense of ownership for the space that you are working in
- Familiarity with various types of fasteners, wiring, materials, and chemicals
- Excellent work history and solid references.
- Ability to lift 30 kg
- A valid driver's license

Strong candidates will have:

- Technical diploma as a drafting technologist, or other related field
- Autodesk Inventor 3D and MasterCam experience an asset
- 2-5 years experience working in manufacturing and assembly environments

- Experience in a production shop creating workflows to improve the product quality and speed of production
- Proficient computer skills specifically with Microsoft and Google software
- Excellent time-management and task-prioritization
- Documentation skills to create internal and external documentation relating to your work
- Ability to work with a high-degree of independence and integrate cohesively within the team
- Ability to multitask, prioritize duties, and quickly assume new tasks as required
- A passport (or the ability to get one) and the ability to pass security clearance checks

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Compensation

Annual salary of \$65,000 - \$80,000 CAD / Year

All employees will be eligible to participate in benefits and profit sharing programs as they become available.

Location and Schedule

Our shop is located at 9773 45th Ave NW, Edmonton. This position is full-time Monday to Friday, starting between 7am-9am. We aim to create a flexible work schedule that allows our employees to meet obligations outside of work. However, there may be irregular hours to meet certain deadlines and we will be required to track our time for project costing. We expect the candidate to work the necessary hours to complete all tasks; however, salary is based on the position and is not on an hourly basis. Only local applicants or those who can relocate themselves will be considered.

Please note that only those selected to continue in the application process will be contacted.

To apply for this position visit: <https://www.zpcryo.com/drafting-technologist>.