



Position: **CAD (Computer-Aided Design) Technician**  
Job Type: Full-time  
Location: Kitchener, ON  
Must be able to reliably commute or plan to relocate before starting work (required)  
Base Salary Range: \$55k - \$70k, depending on qualifications and experience

Application deadline: 2024-12-13  
Expected start date: 2025-01-02

## JOB OVERVIEW

VCT Group is seeking a talented and detail-oriented CAD Designer to join our dynamic team. The ideal candidate will possess strong technical skills in various CAD software and a creative approach to design. This role involves creating detailed drawings and models that support our solar canopy projects. Reporting to the Product Manager, the CAD Designer will collaborate with engineers, project managers and project coordinators to ensure that designs meet specifications and project requirements.

## SPECIFIC RESPONSIBILITIES INCLUDE:

- Develop detailed 2D and 3D models using Rhinoceros3D (Rhino 7/8)
- Create technical drawings for our solar canopy projects including analysis of requirements in a purchase order, municipal bylaws, and building code. Ensure CAD models are accurate, precise, and meet the specifications for engineering and manufacturing hand-off. (example: site plans, foundation detail drawings, changes based on site requirements, shop drawings, assembly instructions, etc.)
- Be the go-to source for design details on 5-10 simultaneous projects, each with multiple design elements, custom components and sub-assemblies
- Review designs for feasibility, functionality, and compliance with safety standards.
- Create Bill of Materials' for all structural components, and work with our Project Coordinator for procurement
- Design and prototype custom components in CAD for project-specific applications (example: inverter mounting, EV charging, etc.), and work with our Project Coordinator for procurement



- Collaborate with cross-functional teams to gather project requirements and provide design solutions
- Work with external engineers to find alternatives based on availability/feasibility of available components
- Prepare shop drawings for fabrication and manufacture of components
- Prepare construction documents and specifications for building projects
- Produce animations and renderings for presentations to support Business Development and Marketing teams
- Maintain organized records of all design files and revisions

#### REQUIRED QUALIFICATIONS:

- 5,000 hours of professional CAD experience (2D drafting and/or 3D modelling)
- Proficient in Rhino; or transferable experience with AutoCAD, SolidWorks, Fusion360, NavisWorks, Sketchup or equivalent
- Strong understanding of CAD principles, GD&T, and best practices in design
- Ability to create detailed schematics and layouts for various applications
- Excellent problem-solving skills with a keen eye for detail
- Strong communication skills to effectively collaborate with team members
- Ability to work independently as well as part of a team in a fast-paced environment
- A degree underpinned by CAD or a certification in CAD is preferred but not required

#### ADDITIONAL SKILLS, ABILITIES, AND QUALIFICATIONS THAT WOULD BE AN ASSET:

- Construction experience
- An understanding of manufacturing and metal fabrication techniques (particularly aluminum extrusion)
- Experience with power tools
- Experience with 3D printing and rapid prototyping
- An understanding of finite element analysis

#### YOU'LL LIKELY BE A PRETTY GOOD FIT IF SOME OF THE FOLLOWING DESCRIBES YOU:

- You enjoy learning and are excited at the opportunity to become a product/market expert in the areas of solar, renewables, energy storage and electric vehicles.
- You are a team player.
- You enjoy talking with people and aren't afraid to pick up the phone and call someone to follow-up or check in.



- You're a bit of a perfectionist, in a healthy way. You value precision and accuracy and take pride in the products of your work.
- Without being arrogant or boastful, you are quite inwardly competitive and like to feel accomplished.
- You already own an electric vehicle, or can hardly wait to get one, and you are keenly aware of your environmental footprint and impact.

If you do not feel you can tick all the boxes for required qualifications, let us know why, and what you bring that shares new perspectives or talents. We seek enthusiastic candidates willing to take a step into the exciting future of electrification.

Interested candidates should forward their resume and cover letter through this website, or to the VCT staff member who sent you this posting.

We would like to thank all candidates for their interest, however, only those potentially suitable for the position will be contacted.

VCT is committed to the values of diversity and inclusivity. If you require accommodations in the interview process, please provide details in your application.

## ABOUT VCT GROUP

VCT Group is a solar EPC (Engineering, Procurement, and Construction) company based in Kitchener and serving southwestern Ontario. We help our customers meet their sustainability and investment goals. We have built over 300 Solar Projects and have a robust pipeline of work for 2025 and beyond. We pride ourselves on having a supportive, diverse, and positive company culture.

Our latest endeavours push the limits to rethink under-utilized spaces, such as our in house designed Solar Canopy structures, to drive electrification with modern EV Charging solutions, and to work closely with industry-leading developers to build out the future of how we generate, use and store electricity.

We are also the founders of a community-based energy investment vehicle. The CED Co-op allows investors to take part in building solutions that combat climate change. The Co-op has over 800 members and has deployed over \$45 million into renewable energy projects. We are proud that CED Co-op is the first co-operative in Canada to become a



public corporation, enabling investments in the Co-op to be held in registered investment accounts.

Join us as we bring renewable energy projects to life!

**BENEFITS:**

- Extended health care
- Dental care
- Employee assistance program
- Paid time off
- RRSP match
- Casual dress
- Company events
- Life insurance
- On-site parking