



## **TESTING & CERTIFICATION CO-OP REQUIRED FOR AN INNOVATIVE SOLAR PANEL DESIGN & MANUFACTURING COMPANY**

**Company name:** Morgan Solar Inc

**Location:** 100 Symes Rd, Unit 100 A, Toronto, ON M6N 0A8, Canada

**Discipline:** Mechanical or Mechatronics Engineering

**Program Year:** 2+

**Grades:** Required

**Available Openings:** 1

### **About the Position**

The successful candidate will work within Morgan Solar's Product Validation team on testing and certification of the company's low concentration photovoltaic (LCPV) modules. She/he will work closely with our engineers to develop and implement experiments to assess reliability and compatibility of designs, materials and processes. The position requires good hands-on ability, adaptability and creative thinking. Detailed organization, documentation and report writing skills are also required. Knowledge in optical physics, and experience in simulation software (SolidWorks, Comsol, Ansys) will be an asset.

### **About Morgan Solar**

Morgan Solar is a Toronto-based company developing innovative solar power, illumination and tracking & control technology platforms based on their strong IP portfolio. The company is uniquely poised to capitalize on solar power's recent achievement of energy parity and to make possible the achievement of net-zero buildings. We are looking for enthusiastic, dynamic, and intelligent team members to help achieve our goals.

### **Required Qualifications**

- Completed Second Year of an engineering undergraduate degree
- Resourcefulness, organizational skills, and exceptional attention to detail
- Previous experience in testing labs and facilities with analytical instruments and techniques
- Strong written and oral communication skills
- Ability to troubleshoot, resolve issues, and continuously improve your working environment.
- Ability to read and interpret drawings, specifications and work orders
- Computer skills –MS Excel, SolidWorks, Comsol, Ansys
- General safety awareness and desire to work in a team-oriented environment

## Tasks:

- Prepare and inventory samples
- Maintain testing procedures for appropriate designs and update testing work instructions
- Perform measurements & testing and summarize data
- Work with Product Development to develop new testing methods and protocols
- Work in collaboration in interdepartmental groups to prepare technical summaries and updates
- Assist Process Engineers with Process Development projects

## To Apply

Please answer the following question as part of your application process:

### Question:

1. How many samples would you need to do a full factorial DOE including: three potential solar cell suppliers, 2 potential glass suppliers and 2 potential lamination suppliers?
2. What does the acronym H.A.L.T. stand for? Briefly describe its purpose
3. What is the advantage of using a hybrid-material drivetrain that has both metal and plastic gears?

*Please respond to these in 1 page maximum.*

Please send your answer, cover letter and résumé to [careers@morgansolar.com](mailto:careers@morgansolar.com) , quoting job reference number **MTC171206** in the subject line.

### *Inclusion and Equal Opportunity Employment*

*MSI is an equal opportunity employer committed to diversity and inclusion. We are pleased to consider all qualified applicants for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veterans status, Aboriginal/Native American status or any other legally-protected factors. Disability-related accommodations during the application process are available upon request.*