Manufacturing Engineer

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
Position Title: Manufacturing Engineer
Starting Date: Immediate
Relevant Experience: 1 - 3 years of experience (co-op experience considered)
Term: Full-time
Salary: Commensurate with experience

About Morgan Solar

Morgan Solar is a Toronto based technology company developing innovative solar power technologies based on their strong IP portfolio. Morgan Solar places a strong emphasis on research and development and has a suite of cutting-edge high efficient solar and illumination technologies in the pipeline. We are now in the process of commercializing two product platforms: a high efficiency solar panel, the Sun Simba™, and a modular and foundationless solar tracker, the Savanna™. The company is uniquely poised to capitalize on solar power's recent achievement of energy parity and advance solar to the next level. We are looking for enthusiastic, hardworking, and intelligent team members to help us achieve our goals.

Required Qualifications

- B.A.Sc. in Mechatronics, Mechanical Engineering or similar
- 1-3 years' minimum experience in a related position, including:
    - Experience working with automation and/or test systems
    - Demonstrated ability to troubleshoot and resolve issues
    - Working knowledge of Engineering Drawing and Fundamentals of GD&T
- Computer & Technical skills:
    - Hands-on experience using SolidWorks (2D and 3D)
    - Experience with SolidWorks EPDM is an asset
    - MS Excel (VBA) and MS Word, MS PowerPoint
- General:
    - Broad knowledge of manufacturing processes, in particular microelectronics, SMT and solar assembly processes
    - Resourcefulness, organizational skills, and exceptional attention to detail
    - Desire to work in a team-oriented environment
    - General safety awareness

- Excellent communication and analytical skills

Roles and Responsibilities:

Reporting to the Manufacturing Manager, the Manufacturing Engineer will:

- Improve the manufacturing processes for Morgan Solar's proprietary module technologies
- Develop & validate production processes from concept to high volume production hand-over
- Drive to meet production deadlines while maintaining quality requirements
- Improve production capacity and reduce manufacturing costs, including assessing opportunities and feasibility for automation
- Work with the production team to develop a deep, hands-on understanding of the entire production assembly processes
- Design, assembly and validation of manufacturing fixtures and assembly aids
- Program and troubleshoot manufacturing equipment

To Apply

A. Please answer the following two questions as part of your application process:

Question 1: You will be required to modify programs. Please explain your understanding of programming logic for the following exercise (less than 150 words)

Explain how you will structure a program that prints the numbers from 2 to 200. For multiples of two print "Morgan" instead of the number and for the multiples of seven print "Solar". For numbers that are multiples of both two and seven print "Morgan Solar".

Question 2: Fits and tolerancing exercise
Take an 8-mm diameter hole.
Considering a shaft basis tolerancing, what would be the shaft and hole tolerance for a Free Running fit? What would be the maximum and minimum clearance in that case?

B. Please send your answers, cover letter and résumé to careers@morgansolar.com , quoting job reference number JIME120417 in the subject line.

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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