

# Optical Designer

Location: Downtown Toronto

Starting Date: July or August 2009



 **morgansolar**

## Education

Master's or PhD in engineering or physics *or*  
Bachelor's with meaningful work experience

## Required Skills and Knowledge

- Knowledge of Non-Imaging optics both for light capture and illumination
- Experience in working with optical software such as FRED, Trace Pro, ASAP, or Light Tools
- Experience in designing within defined restrictions
- Strong Solidworks 3D design background
- Ability to multi-task: manage and work on multiple projects at once
- Experience with programming languages: C, Python, Scheme, or Visual Basic
- Experienced with specifying tolerances specific to part and performance requirements, manufacturing restrictions
- Part qualification and measurement
- Able to produce reports from tests, experimentation
- Ability to produce detailed and well specified engineering drawings
- Knowledge of optical coatings for AR and high reflection
- Able to work strong both independently and in a team setting
- Strong research skills

## Desirable Skills and Knowledge

- Experience in designing optics using polymers and glass
- Knowledge of ISO 10110
- Experience in a lab setting
- Experience in modeling light sources
- Knowledge of optical material aging and photochemistry

## About the Position

Morgan Solar is developing new solar power technologies which are unlike anything else. The company has tremendous potential and needs enthusiastic and smart people to help the company grow. The candidate should have not only a deep understanding of optics but also an understanding of manufacturing realities. The candidate must have excellent verbal and written communication skills for both technical and non-technical audiences. The candidate must be well organized.

Compensation will be commensurate with the hire's qualifications.

Please send a cover letter and CV to Nicolas Morgan at:

[nicolas@morgansolar.com](mailto:nicolas@morgansolar.com)