



## Junior Industrial Engineer

### Company Information

JDRF Electromag Engineering Inc. is a research-intensive product development company located in Port Credit, Mississauga, Ontario. Our mission is to reduce global GHG emissions by creating affordable Smart Lighting for commercial buildings.

We have developed a breakthrough technology that will transform the commercial smart lighting industry and have a measurable impact on global GHG emissions.

As a member of our team, you will join what we believe is the most exciting clean-tech story in Canada. You will also have the opportunity to be part of a close-knit and innovative team that works with cutting edge technology including machine learning, edge computing and data fusion.

### General Description

We are looking for an Industrial Designer to join our team. The ideal candidate is passionate about research and development and has a demonstrated mastery of product design. Your daily activities could involve anything and everything necessary to realise the physical aspects of our products - from conception to mass production.

### Key Responsibilities

Provide support to the Senior Industrial Designer across a range of activities including, but not limited to:

1. CAD Design of product components, test fixtures and various device mounting assemblies.
2. Implement 3D printing and CNC machine executable files for the fabrication of prototypes.
3. Apply modifications to design files to accommodate tolerances and other machine
4. Support QC operations by performing first article and random sample inspection.
5. Product testing - design and implementation of product test plans.



6. Production of manufacturing drawings and other product visualisations.
7. Packaging and label design.

### **Position Minimum Requirements**

1. Bachelor's degree in industrial design or Engineering.
2. Experience in designing electronic products is a must.
3. Experienced user of CAD software (Fusion 360, Solidworks or similar parametric CAD package).
4. Experience with hand sketching for product visualisation.
5. Experienced user of Keyshot or other rendering software for product visualisation.
6. Knowledge of the design of product packaging and labels - experience with Adobe Illustrator or similar.
7. Experience in the production of formal 2D manufacturing drawings from 3D CAD models.
8. Experience in the production of prototypes for functional and aesthetic product prototypes.
9. Knowledge of manufacturing methods for both mass and low-rate production including injection molding and 3D printing.
10. Experience of conducting product testing including documentation of results and extracting insights and conclusions.
11. Experience with operation of CNC machinery is a bonus.

### **To Apply:**

Please send your resume and a copy of your transcripts to [selim.ziade@jdrfelectromag.com](mailto:selim.ziade@jdrfelectromag.com) with the subject **Industrial Engineer - Carleton University**.