Position Type: Technician

Reference No.:

Location: Ottawa, Ontario, Canada

Term: Indeterminate

About Arkalumen

Established to develop and commercialize LED innovations, Arkalumen supports light fixture manufacturers to more easily transition from legacy lighting technologies to cleaner and more energy-efficient LED based products. Arkalumen's high-performance LED light engines and intelligent controllers are engineered to address many of the challenges that have so far impeded the wider adoption of this sustainable lighting technology. The vision of Arkalumen is to provide high quality light for people while they live, work and play, as well as reduce the energy consumption and negative environmental impacts of traditional lighting.

Duties and Responsibilities

- Testing hardware and software elements for proper operation, thermal analysis, and energy efficiency
- Testing LED lighting circuit boards for thermal properties and heatsink thermal distribution patterns
- Testing LED lighting PCBs as well as finished fixtures with optics for light transmission properties using integrated sphere equipment
- Testing various DC power supplies designed to work with LED lighting
- Soldering printed circuit board prototypes and connecting them into finished assemblies for testing
- Assisting in the drawings of prototypes for patent applications
- Assisting in the design of PCB boards for new product development
- Using frequency spectrum analyzers and oscilloscopes to measure dynamic electronic responses of circuits
- Completing administrative tasks as may be required to support the team members of the Corporation
- Shipping, receiving, and any other duties as determined from time to time

Skills and Qualifications

Candidate must:

- Be a post-secondary graduate of a 2+ year technical program (Official Transcripts will be requested)

- Demonstrate strong technical knowledge and problem solving skills

- Be willing to take on tasks as requirements arise

- Demonstrate ability to take initiative and resolve issues with minimum supervision

- Have strong attention to detail while managing multiple priorities in a fast paced environment

- Demonstrate good interpersonal, communication, team and organizational skills

- Have working knowledge of Microsoft Office software including Word and Excel

Additional qualifications (considered to be an asset) include:

- Past experience or knowledge of PCB design using EagleCad or equivalent

- Past experience or knowledge of Microchip micro-controller programming, or equivalent, in assembly or C

- Past experience working with or designing LED lighting solutions

Eligibility Requirements

Arkalumen participates in the Youth Employment Program of the Industrial Research Assistance Program (IRAP) of Industry Canada. As such, applicants for this position are required to meet the eligibility criteria as outlined by this program, which includes:

- Being 15-30 years of age (inclusive) at the time of the start date;

- Having completed a post-secondary program at a college or university;

- Being a permanent Canadian resident, Canadian citizen, or having been granted refugee status;

- Being legally entitled to work according to relevant provincial legislation and regulations; and

- Being a first-time youth participant in a placement of the Youth Employment Strategy.