Junior Design Engineer

Reference No.:

Position Type: Full-time, permanent

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

Duties of a Junior Design Engineer include:

- Working with the engineering team to design LED controller hardware and develop firmware code

- Designing printed circuit boards, including light engines, for LED lighting solutions

- Scoping electrical specifications for components within LED light fixtures

- Assisting with vendor relationship management and inventory management

- Drafting technical documents for product specifications, white papers, patent applications

- Testing hardware and software elements for proper operation, thermal analysis, and energy efficiency

Skills and Qualifications

Candidates must:

- Must have completed an Electrical Engineering, or equivalent, bachelor's degree as of May 2015

- Demonstrate strong technical knowledge and problem solving skills

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

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

- 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

- Past experience or knowledge of Solidworks or equivalent

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.