



**LasX Industries, Inc.**  
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## **Co-op Electrical Engineer Position Description**

**Job Title: Co-op Electrical Engineer**  
**Department: Research and Development**  
**Reports To: Controls Engineering Manager**

### **Position Summary:**

Highly motivated and energetic person interested in developing hardware and software for system controls. The Co-op Electrical Engineer assists in electrical design activities relating to industrial laser systems. He or she will work under the direction of the Controls Engineering Manager.

### **Major Duties and Responsibilities:**

Aids in system electrical design, analysis, and testing for high-performance laser materials processing equipment. Development activities may include:

- ❖ Programmable Logic Devices
  - Interface and control
- ❖ Real time hardware and software design
  - Circuit board level hardware design and prototyping
  - Embedded programming and debugging
- ❖ Industrial electrical component integration
  - I/O systems, sensors, actuators, machine vision
- ❖ Geometric and other mathematical algorithms
- ❖ Other duties as requested by LasX Management

### **Required Qualifications:**

- ❖ Enrolled in 3<sup>rd</sup> year of Bachelor/Master of Science in Electrical Engineering or equivalent.
- ❖ Experience with Programmable Logic Devices hardware and software development
  - VHDL or Verilog, Schematic capture
- ❖ Strong mathematical background including linear algebra
- ❖ Practical knowledge of electrical/electronic components and diagnostic equipment
- ❖ Ability to work in a team environment
- ❖ Excellent verbal and technical writing skills
- ❖ Ability to represent LasX in a professional manner to customers and suppliers

### **Physical Requirements:**

- ❖ Extensive time working at a computer workstation
- ❖ Working in a manufacturing environment