

<b>POSITION: Controls Engineer</b>
<b>DEPARTMENT: Engineering</b>
<b>EMPLOYMENT STATUS: Full Time</b>



### **PRIMARY JOB FUNCTION AND SCOPE**

Construction Robotics is seeking an experienced Controls Engineer to design, develop and program robotic industrial automation equipment for the construction industry. Construction Robotics is a growing start-up company in a fast paced, exciting phase of development. The ideal candidate is resourceful and goal oriented; a strong individual contributor and works well in a team environment.

### **DUTIES & RESPONSIBILITIES**

- Design and develop software for robots, motion controllers and SCADA systems.
- Specify, design and integrate control hardware, sensors and actuators.
- Design complex graphical user interfaces including CAD representations of buildings.
- Work with other team members to learn and develop the overall system control strategy.
- Participate in the development of system requirements and specifications for hardware and software architecture.
- Support the overall safety design for the system hardware and software, taking into account the latest robotic safety regulations.
- Any other task assigned by management within scope of position.

### **EDUCATION and/or EXPERIENCE**

- Required BS Degree in Electrical, Mechanical or Controls Engineering.
- Minimum of 5 years of industry experience.

### **PREFERRED SKILLS**

- LabVIEW and LabVIEW real-time systems
- Robot programming (prefer Staubli or Kuka experience)
- Motion controllers (Kollmorgen)
- Machine vision applications (Cognex, Keyence, etc.)
- Understanding of 3D computer graphics (OpenGL)
- Control theory, including practical application experience
- Programming peripheral control and measurement devices
- Mathematical modeling of solid body kinematics and dynamics
- Designing and writing software or leading software design efforts
- Excellent problem solving skills, flexible, resourceful and independent
- Strong communicator, planner with a positive attitude

### **How to Apply**

Please send resumes to

[hiring@construction-robotics.com](mailto:hiring@construction-robotics.com)

(585) 742-2004

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### **About Construction Robotics, LLC.:**

Construction Robotics (CR) was established with the goal of advancing construction through the use of robotics, automation and the same principles used in manufacturing. CR is a growing startup company developing the world's first commercially available semi-automated robotic bricklaying system that will revolutionize the masonry industry. We are committed to inventing, developing, and commercializing advanced construction technologies that can help reduce cost and project time.