**Job Title:** Robotic Engineer

**Department:** Engineering

**Reports To:** General Manager

**FLSA Status:** Exempt

**Prepared By:** Steve Halfaker

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The Robotic Engineer utilizes knowledge and experience to support the design and implementation of our industry leading die cast lubrication spray systems along with developing custom robotic solutions in material handling and product inspection. Leveraging strong engineering and creative skills along with mechanical and electrical component familiarity, this position develops programs to operate industrial robots in collaboration with sales, purchasing, and management, to serve customers in the die casting and many other industrial manufacturing industries.

**Responsibilities:**

* Use creativity and innovation to develop robotic programs to manipulate various robot sizes from multiple manufactures to automate die spray, material handling, and test/inspection equipment to meet design requirements.
* Support new project quote development by creating robotic concepts that support mechanical and electrical designs while meeting operational cycle time.
* Set-up and use FANUC Roboguide or similar simulation software, when applicable, to facilitate speed and accuracy of programming.
* Review mechanical and electrical project designs to verify overall equipment layouts in consideration for robot movement and material handling for customer presentation and design reviews.
* Troubleshoot robot operational issues during debug and FAT by interfacing with other engineers to find solutions.
* When required, travel to customer locations to verify new project design requirements to support Sales in quoting project.
* Travel to customer location to support system installation, start-up, debug, SAT, operator and maintenance staff training.
* Embrace the challenge of taking design projects from concept through customer design approval and actual system run-off at a customer site.
* Assist in robotic system documentation through providing logic diagrams, programs, and in operator and maintenance manual content.
* Specify testing and QC requirements in conjunction with input from electrical and mechanical engineering to ensure system validation prior to shipment or start-up at customer site.
* Travel to customer locations to obtain design criteria, commissioning, operating, and troubleshooting of fully integrated system.
* Maintain and improve professional and technical knowledge by attending or participating in direct training, educational worships, and professional publications and societies.

**Requirements:**

* BS or AAS degree in ME or MET or equivalent experience.
* Minimum 7 years of automation experience in the automotive or industrial manufacturing industry.
* Experience in using various types of robots in multiple types of applications from material handling, assembly, feeding, and inspection systems.
* Previous experience with aluminum die casting a plus.
* Excellent problem solving and communication skills.
* Proficient in computer skills such as Microsoft Windows and Office Suite.
* Travel up to 20% of the work week, including some overnight when assisting with equipment installation and commissioning.
* Bilingual – English and Japanese a plus.

**Physical Demands:**

The physical demands described here are representative of those that must be met by an employee to successfully perform the general duties of this job. While performing the duties of this job the employee is regularly required to stand, walk, sit, and to use enough hand, arm, and finger dexterity to operate computer equipment. Requires physical work associated with some travel including driving, flying, and lifting suitcases and portable computer equipment. Requires visual acuity to read words and numbers. Requires speaking and hearing ability to communicate in person and over the phone.

**Work environment**

The work environment characteristics are those generally associated with an office, conference room, and manufacturing settings.

**Employment Statement**

Nothing in this job description restricts Ryoei USA’s right to assign or reassign duties and responsibilities to this job at any time. All terms and conditions of Ryoei USA’s at-will employment, duties, and responsibilities are subject to the Ryoei USA’s Employee Handbook.

**Work Hours**

This is a full-time position. Hours will vary based upon needs and will include evening and weekend hours as required.

**Salary and Compensation**

* This is a salaried based position. The starting pay will be commensurate with the qualifications and experience of the candidate.
* Benefits include paid vacation and recognized holidays, health care benefits, and travel reimbursement.

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