



Job Description: Process Engineer / Robot Programmer

Company Overview

Sapience Automation, a reputable provider of turnkey solutions for industrial automation, specializes in serving diverse industries such as automotive, medical, aviation, building products, general industrial, domestic appliances, and food. Headquartered in Charleston, South Carolina, Sapience is committed to fostering long-term customer relationships by consistently delivering excellence through its skilled workforce, standardized processes, and passion for innovation. The company values transparency, continuous learning, and a strong sense of responsibility and accountability. With a successful track record of executing numerous global projects, Sapience attributes its achievements to its exceptional team, adherence to industry standards, and unwavering commitment to excellence. Competitive compensation packages are offered to qualified candidates.

Role: Process Engineer / Robot Programmer

Responsibilities:

As a Robotics Engineer at Sapience, you'll play a crucial role in designing, developing, and implementing robotic systems for various applications. Your expertise will contribute to the seamless integration of automation technology in manufacturing and industrial processes. Here are your key responsibilities:

- 1. Robot Program Development:**
 - Create and optimize robot programs for material handling, assembly, painting, packaging, and other tasks.
 - Utilize robot simulation software to develop and thoroughly test these programs before deployment.
- 2. System Design and Proposal Engineering:**
 - Collaborate with the Application Engineering and Sales teams to engineer and propose robot systems.
 - Use 3D CAD software and robot simulation tools to design efficient and effective robotic solutions.
- 3. Layout Validation and Optimization:**
 - Validate robot system layouts during proposal and engineering phases using simulation software.
 - Work closely with mechanical engineers to optimize robot placement and tooling design.



4. **Vision Systems and Integration:**

- Program and implement vision systems and inspection tools associated with the robots.
- Collaborate with Controls Engineers to integrate robots with PLCs and other control devices.

5. **Testing and Deployment:**

- Conduct Factory Acceptance Tests (FAT) and Modular Build phases at Sapience's facility.
- Develop project-specific plans and timelines for robot program development and testing.
- Implement and test programs on-site at customer facilities, serving as the main technical contact.

6. **Project Coordination:**

- Coordinate with other robot programmers on larger projects that require multiple process engineers.

7. **Customer Training:**

- Provide training to customers on system operations and maintenance.

Qualifications

To excel in this role, you'll need a combination of technical skills, creativity, and problem-solving abilities. Here's what we're looking for:

- Bachelor's degree in Robotics, Mechanical Engineering, or a related field.
- Proficiency in robot programming languages
- Experience with robot simulation software
- Understanding of 3D CAD tools.
- Familiarity with PLCs and control systems.
- Excellent communication skills and the ability to work collaboratively.

If you're passionate about robotics, automation, and pushing the boundaries of what's possible, we'd love to have you on our team!

Feel free to reach out if you need further assistance or have any other requests!

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