



## **Automation Engineer Wolfeboro, New Hampshire**

### **Summary/Objective:**

The Automation Engineer's responsibilities include improving existing robotics, vision and mechanical systems, developing new product concepts and prototypes, designing, and testing mechanical and electronic systems, and developing and supporting various automated and Robotic systems.

To be successful as an Automation Engineer, you should be able to work within demanding timeframes and develop original, practical solutions to problems. Outstanding automation engineer will draw on a wide range of engineering principles and are not afraid to wander into uncharted territory, as well as ask for help from others.

### **Duties and Responsibilities:**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

1. Designing, developing, and enhancing electro-mechanical systems and mechatronic devices.
2. Creating and supporting automated systems and the software to control them.
3. Enhance or modify existing PLC and HMI programs
4. Conducting research, documenting findings, and presenting reports at meetings.
5. Developing design documents for mechanical parts and final products.
6. Conduct studies to determine the feasibility, costs, or performance benefits of new mechatronic equipment.
7. Maintain technical project files.
8. Identify and select materials appropriate for mechatronic system designs.
9. Identifying areas of weakness in the production line or finished products and making recommendations for improvement.
10. Upgrade the design of existing devices by adding mechatronic elements.
11. Implement or test design solutions.
12. Understanding problems or client briefs and developing solutions that satisfy them.
13. Selecting the required tools and materials for the manufacturing process.

14. Create mechanical models and tolerance analyses to simulate mechatronic design concepts.
15. Research, select, or apply sensors, communication technologies, or control devices for motion control, position sensing, pressure sensing, or electronic communication.
16. Assisting with recruitment, onboarding, and training of junior Engineers or Apprentices.
17. Provide consultation or training on topics such as Automation or automated control.
18. Attending workshops, training sessions, and conferences to network with others and stay on top of field advancements.
19. Oversee the work of contractors in accordance with project requirements.
20. Additional responsibilities as assigned by manager.

### **Qualifications:**

Education and experience required for the role.

- BSc in Mechatronics Engineering or similar.
- Basic understanding of PLC and HMI controls, preferably Allen Bradley
- Ability to read and interpret electrical and hydraulic schematics
- Basic understanding of robotics controller and motion profiles, preferably Fanuc Robotics
- Basic understanding of mechanical components
- Basic understanding of Hydraulic circuitry
- Basic understanding of Solidworks and ability to design within the software
- A completed apprenticeship or additional courses would be advantageous.
- Strong mathematical, analytical, and creative thinking skills.
- Ability to work in a team or alone.
- Self-starter with a passion for Engineering.

For immediate consideration, please come to Five Wickers Drive Wolfeboro, NH to complete an application or visit our website for more information at [www.psimp.com](http://www.psimp.com).

**You can also email your resume directly to [donna.doyle@psimp.com](mailto:donna.doyle@psimp.com).**

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