

Automation Engineer


ESTIMATED TIME HORIZON:
 Medium- to Long-term*

Trends impacting this role

- Intelligent automation/robotics

Other considerations

- More technologically advanced companies may wish to create this role, as a dedicated personnel to ensure the organisation is at the forefront of productivity

Responsibilities of the role

This Automation Engineer is responsible for using technology to improve, streamline and automate manufacturing processes such that manufacturing is as efficient as possible, while maintaining product quality and adhering to plant protocols and external regulations. Strong technical background and operations knowledge are required to plan, implement and monitor automation technologies.

Job Tasks

- Work closely with Production function to evaluate existing production processes, understand pain points and identify inefficiencies that can be addressed by automation. Develop and implement software and hardware automation systems, while still maintaining product quality and adhering to internal policies and external regulations
- Stay up-to-date with latest technologies and incorporate relevant technologies in production processes to increase efficiency, including collaborating with third party vendors to adopt new automation technologies
- Contribute to continuous improvement by collecting and analysing automation performance data to identify issues, work with Production function to understand root causes and develop corrective and preventive measures
- Train Production team to operate new and/or modified automation systems and processes; train Engineering team to perform maintenance and troubleshooting of automation systems and processes, and provide technical expertise when required

Technical Skills (TSC) Required

- | | |
|---|---|
| • Automated Food Manufacturing System Maintenance | • Project Management |
| • Automated Operation Monitoring | • Robotic and Automation System Maintenance |
| • Automated System Design | • Robotic and Automation Technology Application |
| • Automation Process Control | • Stakeholder Management |
| • Continuous Process Improvement | • Technology Application |
| • Data Analytics | • Technology Road Mapping |
| • Food Manufacturing Process Design | • User Experience Design |
| • Innovation Management | • User Interface design |
| • Programming and Coding | • Vendor Management |

Critical Core Skills (CCS) Required

- | | | |
|---------------------|-------------------|-------------------|
| • Communication | • Collaboration | • Decision Making |
| • Developing People | • Problem Solving | |

*Estimated timeline of demand for emerging job roles (Short-term: Current to 2 years | Medium-term: 2 to 5 years | Long term: Beyond 5 years)