

### Title of DTI Project

Robotic Automation Analyst – Help Shape the Future of UK Manufacturing

### Role Profile/Job Description

A leading North West manufacturer of plastic products is seeking a proactive intern to support their next step in factory automation. This is a hands-on opportunity to make a real difference in streamlining production and reducing manual processes. You'll investigate automating painting, labelling, and palletising operations. Working closely with a small internal team, you'll simulate automation concepts, run cost-benefit analyses, and help shape a roadmap for future investment in smart manufacturing. You'll be: Researching and recommending practical robotic automation solutions Building simulations to assess productivity and feasibility Producing cost and benefit breakdowns for each key task Preparing a strategic recommendation for future implementation What you'll need: An interest or background in robotics, automation, or digital manufacturing Strong research and analysis skills Familiarity with simulation or modelling tools Great communication skills to work with technical and operational teams.

This project will help a growing UK manufacturer reduce waste, boost productivity, and stay competitive – delivering real value through smart innovation.

### Duration of internship

300 hrs

### Business Overview

The client is a well-established manufacturer based in Royton, Oldham, specialising in the production of plastic goods such as traffic cones. While the company has already invested in automated moulding machinery, several downstream processes – including painting, sticker application, and palletising – remain manual. To continue its digital transformation journey, the company is exploring full production line automation, aiming to increase output, reduce waste, and minimise manual handling. This internship will play a pivotal role in laying the technical and strategic groundwork for that vision.

### Skills required

Research and analysis Simulation or modelling tools (e.g. digital twin, CAD, or process flow software) Communication and presentation skills Interest in robotics and manufacturing improvement

### Location

Greater Manchester

### Start date

ASAP