

# Accelerating Production of Egg-Based Vaccines

How We Helped MedImmune Increase Productivity — and Win an ISPE Facility of the Year Award



732-922-6611

info@inflexionpoint.ai

www.inflexionpoint.ai

## EGG-BASED VACCINE PRODUCTION

### Increased Capacity Through Automation

We helped MedImmune increase productivity by upgrading process automation and control systems, enhancing visibility and reporting.

**MedImmune** based in Maryland, comprises nearly half of AstraZeneca's overall R&D portfolio. They focus on three core therapeutic areas: Oncology; Respiratory, Inflammation and Autoimmune; and Cardiovascular and Metabolic Disease. The company is also opportunity-driven in Infectious Disease.

The biologics site at Speke, Liverpool is a unique place that brings together research scientists, manufacturing associates, engineers, quality professionals and support personnel. This facility produces up to 20 million vaccine doses a year for the global market.

#### Goal: Capacity Increase

MedImmune needed to increase the capacity of their egg-based vaccine manufacturing, embarking on the project with InflexionPoint to change and automate the production processes and equipment. Having previously worked with MedImmune on their Frederick MD project, we engaged to remediate and

take responsibility for the control of the major process equipment including egg harvesting, IPA spray, decal inspection and isolation.

#### Solution: Automation and Visibility

The control system was based on a Rockwell ControlLogix PLC and FT-ViewSE HMI and also included six servos for camera control and machine indexing, and a vision system for egg inspection. Our involvement spanned the PLC application, HMI application, and reporting on batch and efficiency data.

Our involvement began during the development stage at the Speke, UK facility and we remained engaged through testing and startup. We continue to support enhancements to the system.

#### Facility of the Year Winner

This manufacturing facility subsequently became the recipient of an ISPE (International Society of Pharmaceutical Engineering) Facility of the Year award.

#### Challenges

- MedImmune (now part of AstraZeneca) wanted to increase capacity at its facility in Liverpool, UK

#### Solution

- Rockwell ControlLogix PLCs
- FT-ViewSE HMIs
- Vision system for egg inspection, including servos for camera control
- Batch reporting system

#### Results

- Greater capacity through increased automation
- Greater visibility with reporting on batch and efficiency data
- Recipient of ISPE Facility of the Year award