

## Pharmaceutical and Life Sciences Industry

Sarla Technologies is an ISO 9001:2015 certified Engineering Services and Solution organisation. We have been serving the Global Pharmaceutical and Life Sciences industry for the past 18 years. We have helped major Pharma Original Equipment Manufacturers (OEMs), System Integrators (SIs), Engineering Procurement & Construction (EPC) and Solution Providers to serve Leading Pharma and Life Sciences companies across the globe.

We have rich experience on Pharma equipment, processes and compliance systems. We have knowledge on industry standards like 21 CFR Part 11, GAMP guidelines, ISA-88, ISA-95, etc.



### Services and Solutions Portfolio

#### Industrial Automation

Application Development- PLC, DCS, SCADA & HMI, Safety  
Control System Migration & Upgrade  
Integrated Testing  
FAT, SAT  
Pharma Validation  
Commissioning  
24x7 Support

#### Design Engineering

Detailed engineering- Plant, Process and Equipment  
2D drafting and 3D modeling  
Mechanical, Piping and Structural  
Electrical & Instrumentation  
Migration / data conversions  
Analysis and Simulations

#### Plant IT & Software Development

Microsoft: C#, VB .NET, C, C++, WPF, SQL Server  
Open Source: Python, AngularJS, Java  
Batch and Recipe Management  
MES, ERP integration  
Laboratory Information Management System (LIMS)  
Plant Analytics and Reporting

### Our Experience on Various Pharma Systems, Processes and Equipment

#### Pharma Process Equipment

Bioreactors  
Clean-In-Place & Sterilization-in-Place  
Evaporators & Dryers  
Filters & Separators  
HVAC Equipment

#### Tablets and Capsule Coatings

Batching  
Dispensing  
Warming/ Temp  
Profiling  
Spraying, Drying & Cooling  
Loading & Unloading  
Packaging & Palletization

#### Vaccines and Bulk Drugs

Batching  
Fermentation & Extraction  
Water For Injection (WFI)  
Micro, Ultra and Di-filtration  
Chromatography

#### Syrups

Batching  
Dosing Solid and Liquid Materials  
Warming / Temp Profiling  
Filtration of Reactor Product  
Filling & Packaging

#### Lens Manufacturing

Surface Grinding  
Surface Blocking & Unblocking  
Lapping & Polishing  
Cleaning & Coating  
Molding  
Packaging & Palletization

## Our Success Stories in Pharmaceutical & Life Sciences Industry

### Automation Engineering for Swine Flu Vaccine Production at a Pharma Manufacturer in UK

**Processes:** Automation Engineering services enabling leading System Integrator to serve its client.

**Scope:** DCS and SCADA development with Server-Client configuration, testing, pre-commissioning and commissioning Support in compliance with GAMP 5.

**Hardware & Software:** PLC- Siemens PCS 7, Batch-SIMATIC Batch and SCADA- Siemens WinCC

### DCS and Batch Engineering with Validation for a Biopharma OEM at a Pharma plant in Ireland

**Processes:** Automation of drug production line Standard Preheating, Compounding, FAT Oil, etc.

**Scope:** FDS Development, DCS Programming, FAT, SAT and commissioning with Computer System Validation (CSV)

**Hardware & Software:** DCS- Emerson DeltaV Batch Version 13.3

### Electrical Design Engineering for a System Integrator at leading Pharma Manufacturer in USA

**Processes:** Upstream processes for Harvest, Buffer, Media Preparation, Filtration, etc.

**Scope:** Detail Design & Engineering of Electrical PLC & Solenoid Control Panel & Layout Drawings, BOM Preparation using AutoCAD

**Software:** AutoCAD Electrical

### Automation Engineering for Cell Culture & CIP plant for Process OEM at Pharma Plant in Ireland

**Processes:** Bioreactors and Purification Process Vessels, CIP, Utilities, Water For Injection (WFI).

**Scope:** FDS Development, PLC, SCADA application development, FAT, SAT, Commissioning, Lifecycle Documentation and Support.

**Hardware & Software:** PLC- Rockwell ControlLogix, SCADA- Rockwell FactoryTalk View SE

## Key Enablers

**In-house PLC Labs & Experience Center:** Industrial skid with sensors, valves, drives. PLC labs with Siemens, Rockwell, Mitsubishi, etc.

**Online Project Management Tool:** Cloud based project and quality management tool to track the development of the projects.

**Quality Management Systems:** ISO 9001:2015 certified quality management system and practices.

**State of the art Infrastructure:** Reliable IT and network system with secured FTP, VPN, back-up servers, networking & in-house IT support teams.

## Our Value Proposition

**One Stop Shop:** For various Engineering Skills- Automation, Design, Plant IT projects.

**Pharma Expertise:** Rich pharmaceutical process knowledge and experience in standards like ISA-88, ISA-95, FDA, cGAMP, 21 CFR Part 11, etc.

**Specialists in Migration & Upgrade:** Rich knowledge of various tools for migration & upgrades.

**Absorption of Variable Project Load:** Engaging on projects from few man-weeks to multi-year contracts.

**Cost Efficient Engineering:** Proven Remote Engineering Model with cost competitive resources.

Let's connect

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