PROCESS DESIGN, ENGINEERING & CQV | AUTOMATION & OPERATIONAL TECHNOLOGY (OT)

Your One Source Solution

Trinity Consultants | LIFE SCIENCES

Trinity Consultants is a leading global environmental consulting firm that brings 50 years of experience providing services and solutions in the EHS Regulatory Compliance, Built Environment, Life Sciences, and Water & Ecology markets. Trinity has the technical expertise and acute industry knowledge to provide optimal solutions to highly complex pharmaceutical development, process, safety, and facility design challenges.

Automation Services

Aztec engineers are experienced in the design, implementation, commissioning, and startup of plants up to 20,000 Input/Output points. We use standard lifecycle methodologies to implement systems, thus ensuring a streamlined approach. We strive to understand the process as a whole, not just the code.

Areas of Expertise:

- Distributed Control Systems & PLC Platforms
- HMI & SCADA Programming
- Batch Automation
- Data Historian, Archiving & Reporting
- Commissioning, Startup, and Validation

Panel Design, Fabrication, and Installation

RTI Products, a division of Aztec Technologies, brings thirty years of experience in control panel design, fabrication, skid/field wiring and functional testing. Each panel is inspected by ISA Certified technicians for component installation, instrument setup, hardware tightness and component and wire making. It is then tested for continuity, power, functionality, pneumatic pressure, and communication/connectivity, all to ensure customer satisfaction.

Designed & Fabricated in Accordance with:

- UL 508A Industry Control Panels
- UL 698A for Class 1 Division 1 & 2
- NFPA 70 & NEC
- CE, Atex Zone 1 & 2
- Bus Segment Design for:
  - Foundation Fieldbus
  - Ethernet
  - DeviceNet
  - Profibus
  - ModBus
  - AS-i



Managed Services

Our comprehensive Managed Services offering helps clients elevate their operational efficiency. Designed to empower businesses, our service provides dedicated operational support for automation systems, MES, and Data Historian platforms. Our team ensures seamless system functionality through planned maintenance, periodic reviews, and rigorous change control management, eliminating downtime and optimizing performance. We also offer new user training, ensuring that all teams are well-equipped to harness the full potential of these platforms.

Let us be your reliable partner in maximizing productivity and minimizing disruptions, so you can focus on what truly matters – driving your business forward.

Project Management

Aztec senior consultants are trusted project architects with experience executing critical automation capital projects at companies worldwide. This includes DCS/MES, BMS/BAS and skid level systems. We manage projects with schedule, budget, and compliance in mind to ensure that we deliver a complete project to our customers.

Core Competencies:

- Project Definition & Tracking
- Planning & Scheduling
- Risk Management
- Change Management
- Post Implementation Review



Process Data Analytics

We have provided our customers with solutions to collect and store data using the systems listed below. We provide solutions that aggregate and manage data for visualization, analysis, and reporting. We combine data, alarms, and events to provide our customers with a complete visualization package to troubleshoot their process.

Systems:

- OSI PI
- Rockwell Factory Talk Historian
- GE Historian
- Aspen IP21

Manufacturing IT/OT

- IT/OT assessments
- OT Datacenter and Network design and deployment
- Hyperconverged virtual machine clusters
- Data lifecycle management with automated on prem and cloud-based backup and recovery systems

About Trinity Consultants' Advent Engineering Life Science Solutions

Advent Engineering Life Science Solutions, a Trinity Consultants team, includes industry veterans from legacy companies Advent Engineering and Aztec Technologies, which were acquired by Trinity Consultants in 2018 and 2022, respectively. Our team has deep expertise in the commercialization of pharmaceutical/bio-pharmaceutical processes. At the heart of Aztec is a passion for solving complex challenges through tailored automation solutions. With a global footprint and a commitment to understanding the unique needs of each client, we bring a personalized approach to each project. The team includes highly qualified engineers and other technical specialists who work onsite at client facilities, performing engineering and design work to meet clients' development and manufacturing goals.

CONTACT OUR TEAM!

For more information about how we can help your organization, please contact us.

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