

# Design

## Utilize Triad's Large and Experienced Group of Designers

From concept to integration and support, Triad is your one-stop automation design partner.

Automation control design solutions range from extraordinarily complex to standard implementation. Our experienced professionals are familiar with all industry technologies for designs that are customized to your project needs.

[Let's Talk About Your Next Project](#)

### DESIGN SERVICES

#### Front End Loading (FEL)

- Project development for electrical, instrumentation, and DCS installs or upgrades
- Assist clients in determining needs for power, controls, and communications solutions
- Develop scope to aide in project cost and size
- Documentation solutions

#### Enclosures

- RIE or Building Design
- DCS, PLC Cabinet & Rack Design
- BMS Panels
- Control Panels

#### Instrumentation

- Field Instrument and Control Room Surveys
- Installation Details
- Updating and Maintaining P&I Documentation
- Instrument List Preparation
- Specification Sheet Updates

## Networking

- Communication
- Fiber Optic Systems
- Security Systems

## Electrical

- Area Classification Drawings
- One-Line Diagrams
- Motor Controls and Motor Control Centers
- Switchgear
- Power Transformers
- Motor Control Schematics
- Cable Tray Design
- Underground Duct Banks
- Induction and Synchronous Motor Applications
- Variable Speed Drive Applications
- Heat Tracing
- Grounding Systems
- UPS Systems
- Junction Boxes, Terminations, and Grounding
- Conduit Plans and Details
- Cabling and Wiring Systems
- Intrinsic Safety Systems
- Hazardous Locations

## Control Systems

- DCS, PLC, SIS Migrations and Upgrades
- DCS, PLC, SIS Installations
- Marshalling Solutions
- RIE Design

## Analytical

Utility connections and rack design (power, air, heat tracing, and communication design) supporting [advanced analytic services](#)

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