

ENGINEERING SERVICES OFFERED

HVAC

- HVAC Design For Buildings
- HVAC Equipment Replacement and Retrofit Design
- Life Cycle Cost Analysis
- Energy Modeling
- Laboratory and Clean Room Design

Electrical Power

- Building Power Distribution
- Campus Power Distribution
- Substations and Switchgear
- Metering and Breaker Coordination
- Standby Generators
- UPS Systems
- Power Generation
- Photovoltaic Design
- Arc Flash Hazard Studies

Plumbing

- Potable Water System Design
- Wastewater and Stormwater Design
- Gas and Liquid Fuel System Design

Building Automation

- HVAC and Lighting Control System Design
- Building Optimization
- Retro-Commissioning
- Design for Replacement Control Systems

Life Safety and Fire Protection

- Code Consulting
- Standards Development
- Smoke Control System Design
- Fire Alarm System Design
- Fire Protection System Design

Lighting

- Lighting System Design
- Daylighting Design and Evaluation
- Photometric Analysis
- Specialty Lighting Design

Voice and Data

- Raceway and Outlet Design
- Nurse Call System Design
- Security and Notification Systems

Owner's Representative

Central Plants and Utilities

- Heating and Cooling Central Plant Design
- CHP/Cogeneration
- Campus Distribution System Design
- Pipe Flow Modeling and Optimization
- Heat Recovery and Energy Balance
- Dispatch Modeling

Industrial Design

- Dilute and Dense Phase Product Conveyance
- Process Equipment Selection
- Process Tank Design
- Raw Material Dispensing

Industrial HVAC

- HVAC for Industrial Processes
- Industrial Control System Design
- Clean Room and Test Chamber Design
- Industrial Process Heating and Cooling Systems
- House Vacuum Systems
- Hazardous and Non-Hazardous Dust Collection
- Fume and Dust Capture Hood Design
- Deflagration/Explosion Venting
- Explosive and Toxic Fume Control

Process Piping

- Compressed Air System Design
- Medical Gas Piping and Source Design
- Piping Design for Industrial Processes
- Process Wastewater
- RO and DI Water Systems
- Acid and Base Piping
- Liquid and Gas Nitrogen System Design

CFD Modeling

- CFD Modeling for Data Center Cooling
- CFD Modeling for Space Ventilation
- Process Fluid CFD

Carbon Reduction | Sustainability

- Net Zero Energy Design
- Carbon Footprint Evaluation
- Energy Master Planning
- LEED Compliance Documentation
- LEED Facilitation
- Renewable Energy Integration