



Engineering Capabilities That Drive Results

Comprehensive engineering services that simplify project oversight and help clients move from concept to execution efficiently with technical expertise and real-world industrial experience.



Certified Excellence

Industry-leading engineering standards

Engineering Solutions That Simplify Complex Projects

Solution Services provides comprehensive engineering services that simplify project oversight and help clients move from concept to execution efficiently. Our engineering team combines technical expertise with real-world industrial experience to deliver practical solutions that keep projects on schedule, within budget, and aligned with operational goals.

Working closely with our maintenance and construction teams, we provide engineering support that ensures projects are planned thoroughly and executed with precision. From early design and analysis to commissioning and startup, our engineers focus on delivering quality results that exceed expectations.

25+

Years Experience

500+

Projects Completed

98%

Client Satisfaction

COMPREHENSIVE SERVICES

Engineering Services We Provide

From initial concept through commissioning, our full-service engineering capabilities support every phase of your project lifecycle.



Mechanical Engineering

Complete mechanical design, analysis, and optimization for industrial systems and equipment installations.



Electrical Engineering

Complete mechanical design, analysis, and optimization for industrial systems and equipment installations.



Structural Engineering

Complete mechanical design, analysis, and optimization for industrial systems and equipment installations.



Process Engineering

Complete mechanical design, analysis, and optimization for industrial systems and equipment installations.



P&ID Development

Complete mechanical design, analysis, and optimization for industrial systems and equipment installations.



E&I Engineering

Complete mechanical design, analysis, and optimization for industrial systems and equipment installations.



2D & 3D CAD Drafting

Complete mechanical design, analysis, and optimization for industrial systems and equipment installations.



3D FARO Scanning

Complete mechanical design, analysis, and optimization for industrial systems and equipment installations.



Technical Calculations

Complete mechanical design, analysis, and optimization for industrial systems and equipment installations.



Project Planning & Management

Our engineering team provides comprehensive project support from initial concept through final execution.

- ✓ Project scope, schedule, and budget development
- ✓ Bid package preparation and vendor coordination
- ✓ Construction planning and management oversight
- ✓ Construction planning and management oversight



Commissioning & Startup Support

Ensuring successful project completion with expert commissioning and startup assistance.

- ✓ Pre-commissioning inspection and verification
- ✓ System testing and performance validation
- ✓ Startup coordination and troubleshooting support
- ✓ Documentation and training for operations teams

A Practical Approach to Engineering

Effective engineering goes beyond design – it requires a deep understanding of how systems operate in real-world industrial environments. Our engineers work collaboratively with clients and field teams to ensure designs are practical, constructible, and optimized for long-term performance.

By integrating engineering with construction and maintenance capabilities, Solution Services helps streamline communication, reduce project risk, and accelerate project timelines.



Collaborative Design

Working closely with field teams ensures practical, buildable solutions



Risk Mitigation

Identifying potential issues early reduces costly changes during construction



Faster Timelines

Integrated services streamline communication and accelerate project delivery



Long-Term Value

Designs optimized for performance, maintainability, and operational efficiency

Who Do We Work With?

Solution Services supports a wide range of industrial clients



Pulp & Paper

Complete engineering support for pulp and paper manufacturing facilities and processing operations



Chemical Plants

Specialized engineering for chemical processing facilities and hazardous material handling systems



Manufacturing

Engineering solutions for diverse manufacturing operations and production facility optimization



Municipal & Utilities

Infrastructure engineering for municipal facilities, water treatment, and utility operations

Regional Coverage & Expertise

Our teams operate throughout South Carolina, southern North Carolina, and surrounding regions, providing dependable engineering support where safety, precision, and efficiency matter most.

- 📍 South Carolina - Statewide Coverage
- 📍 Southern North Carolina
- 📍 Surrounding Regional Areas



OUR PROCESS

From Concept to Completion

A structured approach that ensures every project phase receives the attention and expertise it deserves.

01

Initial Consultation

Understanding project requirements, goals, and constraints through detailed discussions with stakeholders.

- ✓ Site assessment
- ✓ Requirements gathering
- ✓ Budget planning

02

Design & Engineering

Developing comprehensive engineering solutions with detailed calculations, drawings, and specifications.

- ✓ CAD modeling
- ✓ Technical analysis
- ✓ P&ID development

03

Design & Engineering

Providing ongoing engineering oversight during construction to ensure design intent is maintained.

- ✓ Field coordination
- ✓ RFI responses
- ✓ Quality verification

04

Commissioning

Final testing, validation, and startup support to ensure systems perform as designed.

- ✓ System testing
- ✓ Performance validation
- ✓ Documentation delivery

Advanced Engineering Capabilities

Our engineering team leverages the latest technology and industry best practices to deliver innovative solutions that meet the unique challenges of industrial environments.



3D Modeling

Advanced CAD and BIM for precise visualization



Thermal Analysis

Heat transfer and thermal performance studies



Load Analysis

Structural integrity and stress calculations



Laser Scanning

FARO 3D scanning for precise measurements



Ready to Discuss Your Engineering Needs?

Contact our engineering team to learn how we can support your next project with comprehensive, practical solutions that deliver results.



Call Us

(803) 791-0980



Email Us

info@ss-mec.com



Business Hours

Mon-Fri: 7:30 AM - 5:30 PM