

# TESTENGEER

INCORPORATED

## ENGINEERING AND TECHNICAL SERVICES



### About Us

Testengeer is a full service engineering firm satisfying clients throughout the Gulf Coast Region. Our hometown “can-do” attitude has developed long-lasting partnerships for over 30 years. We are actively involved with a wide variety of clients ranging from the chemical, petroleum, and manufacturing industries and utilities.

We provide leading edge engineering services at every stage of a project, **“From Concept to Actuality”**. Whether you are looking for a “grass-roots” facility, a retrofit to an existing piece of equipment, or a solution to a challenging problem, we have an innovative approach that will suit your every engineering need.

### Expertise

Our EPC Alliance services and combined staff of approximately 1200 engineering and construction employees allows us to comfortably implement turnkey EPC projects up to 30MM TIC.

Our EPC Alliance can take charge of an entire project from ideas to construction and startup or we can assist you at any phase of your project. The stepping stones that we have laid as the foundation for our project execution strategy includes:

- Project Management
- FEL Scope Development
- Engineering Design Drafting
- Process Safety
- Construction
- Partnering

By utilizing an experienced solution-oriented workforce and “state of the art” technology, we deliver complete engineering services with the personal attention of individual consultants in the following areas:

- Project Management
- Process Engineering
- Environmental Services
- Functional Process Safety
- Control Systems/Instrumentation
- Process Automation
- PLC and DCS Control Systems
- HMI (Human Machine Interface)
- Electrical
- Mechanical and Piping
- Civil and Structural
- Design and Drafting
- Computer Services
- Construction Services



### Contact Us

[Info@Testengeer.com](mailto:Info@Testengeer.com)  
[www.Testengeer.com](http://www.Testengeer.com)

## **Project Management**

- Front End Loading
- Construction Estimating
- Project Execution
- Project Scheduling
- Project Closure
- Construction Support
- Purchasing Support

## **Process Engineering**

- Process Studies
- Modeling
- Engineering Calculations
- Front End Loading
- Process and Flow Diagram Generation
- Process and Instrument Diagram Development
- Relief System Design
- Equipment Design
- Procedures and Training

## **Process Automation /Control Systems**

- System Integration
- System Migrations
- System Upgrades /Modifications
- Advanced Process Control
- Distributed Control Systems (DCS)
- Programmable Logic Controllers (PLC)
- Complete Programming and Configuration
- Complete System Simulation
- Emergency Shutdown Systems
- System Failure Analysis
- System Support and Sustain
- Installation and Testing
- System Documentation /Drafting

## **Instrumentation**

- Industrial Instrumentation
- Measurement Applications:  
    Pressure, Temperature, Flow and Level
- Control Valve Sizing
- Asset Monitoring
- Analytical Applications
- Calibration and commissioning

## **Human Machine Interface (HMI)**

- PC Based Systems
- Touch Panels
- Data Logging and Recording / SCADA

## **Electrical**

- Power Distribution
- Substations
- Motor Control Centers
- Switch Gear, Transformers
- UPS, VFD
- Control Panels
- System Studies - Load Studies
- Installation Support

## **Mechanical Engineering**

- ASME Code Vessel Design
- Equipment Specifications and Sizing
- Fixed and Rotating Equipment Design
- Pipe Flow Analysis
- Relief System Design
- Pipe Stress Analysis

## **Piping**

- PFD, P&ID
- 3D Modeling
- Piping Plans, Sections, Isometrics
- Pipe Flow Analysis
- As-builts

## **Civil and Structural**

- Foundation Design
- Pipe Rack Design
- Fall Protection Design
- Integrity Analysis of Existing Structures
- Retrofit Design
- STAAD Modeling
- Design / Drafting for Concrete Foundation and Structures
- Design / Drafting Steel Structures
- Underground Piping Design / Drafting

## **Construction Services**

- EPC Services
- Turn-Key Engineering/Construction Approach
- Construction Management Services
- Construction Installation
- Inspection and Testing

## **Testengeer Integrity Solutions –**

### **Safety, Environmental and Inspection Services:**

- OSHA Compliant Process Safety Management (PSM) Services
- Process Hazards Analysis (PHA)
- Layer of Protection Analysis (LOPA)
- Mechanical Integrity/Maintenance Reliability Services
- Asset Integrity Management (AIM)
- Engineering and Failure Analysis
- Asset Optimization and Troubleshooting
- Pipeline Integrity Services
- Third Party Inspection Services
- Production and Integrity Assurance Services
- Operational, Process, and Construction Support
- Corrosion Engineering
- Quality Assurance/ Quality Control (QA/QC) Services

## **High Definition Laser Scanning**

### **Areas of opportunity for using HDLS:**

- Retrofit Engineering and Design
- Green Field Engineering and Design
- Support Construction Field Services
- Provide Modeling for Fabrication
- Support to Plant Maintenance Services

## **Adding Value to Services:**

- Safer Project
- Increased Percent Accuracy
- Improved Project Efficiency
- Significant Project Savings
- Reduced Liability and Financial Risks
- Reduced risk of Construction/Fabrication change orders
- Reduced Field Visits and Site Trips
- Improves Efficiency of Engineering, Design and
- Skilled Crafts Resources
- Will help to ensure Quality Project Results