

T H E

LAUREN

E X P E R I E N C E



LAUREN 



ABOUT US

Core Beliefs



Lauren Vision

Lauren's vision is to be a light to the world and the contractor of choice through constructive and caring relationships with customers, suppliers and peers.

Lauren Mission Statement

Lauren helps our customers succeed by providing innovative solutions and by designing and building the highest quality facilities with timeliness, integrity and skill.

Core Values

- ◆ We believe that our primary purpose is to love and honor God and to serve others.
- ◆ We strive to be the very best at whatever we choose to do.
- ◆ We strive to develop extreme loyalty through exceptional performance.
- ◆ We challenge and help every worker to reach their full potential.
- ◆ We realize people are more important than activities or things.
- ◆ We will be good stewards of our time, talents and treasures.
- ◆ We encourage innovation, reward responsible risk taking and forgive mistakes.



"Designing & Building Success"
www.laurenec.com

ABOUT US

Company Profile



Lauren Engineers & Constructors began as a small specialty construction company and has grown into a fully integrated provider of professional engineering and construction services. Due to our success, we are able to focus on recruiting and developing highly regarded professionals, refining internal processes and adding capabilities. Continually developing our full range of in-house services allows Lauren to offer innovative and cost-effective solutions to our customers in a range of primary markets such as:

- ◆ Alternative Energy
- ◆ Power Generation
- ◆ Industrial Manufacturing
- ◆ Chemical and Polymers
- ◆ Refining

Lauren's business model is centered on developing long-term relationships with our clients. We excel at working as a team (both internally and with our customers) and it shows. Our reputation for high quality, cost competitive work has earned us repeat business with such clients as LS Power, Texas Utilities, Eastman Chemical, Georgia Power, American Electric Power, Central and South West, DukeSolutions, KoSa, ITW/Signode, Navajo Refining, Nuclear Fuels, Horsehead Corporation, Acciona, Florida Power & Light and many others.

Lauren maintains a Corporate Office in Abilene, Texas, as well as regional offices in Irving, Texas; Atlanta, Georgia; and Knoxville, Tennessee. In Canada, Lauren operates under our subsidiary, Kamtech Services, and maintains offices in Vancouver and Montreal.

Lauren provides the following services:

- ◆ Feasibility studies
- ◆ Project planning & scheduling
- ◆ Budgeting and estimating
- ◆ Constructability reviews
- ◆ Front end engineering and design (FEED)
- ◆ Project management & project controls
- ◆ Full scope discipline engineering and design
- ◆ Direct hire of all craft types
- ◆ Construction management
- ◆ Full-service project management
- ◆ Modular design, fabrication and erection
- ◆ Full-service pipe and pressure vessel fabrication
- ◆ Full-service project startup and commissioning

In short, Lauren is a company that is known for helping our customers succeed by designing and building the highest quality facilities with timeliness, integrity and skill.

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ABOUT US

Cornerstone Commitments



Integrity

Most simply, Lauren Engineers & Constructors' commitment to integrity can be summarized as, "We do what we say!"

Many companies today claim to be committed to integrity, but their actions are not in line with their commitments. For Lauren Engineers & Constructors our commitment to integrity involves more than just words - our actions confirm our commitment.

We maintain an undivided, unwavering commitment to integrity throughout all levels of our company, which translates to peace of mind and value for our customers.

Safety

Safety is our #1 priority and we have developed a safety program that is second to none to support this commitment. Our goal is zero accidents, achieved through constant training, rigorous enforcement of safety procedures by all of our employees, and accountability.

We understand that the success of a project is only achieved through strict implementation of our safety program, and this philosophy has allowed us to consistently maintain a safety rating well below the industry average.

Our safety program includes more than just promises and good intentions. We are dedicated to fulfilling our commitments to our customers to provide safe, cost-effective, quality work.

Quality

Lauren understands that the quality of work we provide is directly related to the people we hire. Therefore, we hire only the most competent, experienced and trained individuals. Additionally, we make sure that all of our employees are involved in regular training. Through this focus on continuous improvement, we have developed a reputation for providing quality work. Yet, our paramount concern continues to be not only meeting but exceeding our customer's expectations of quality.

Performance

Lauren is known as a contractor that performs. With qualified crafts people, we are prepared to perform in accordance with our commitments to meet the demands and schedule of the project. We understand the importance of limiting setbacks and delays, and we employ every means possible to perform responsibly, efficiently, and quickly to meet the demands of our customers.

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ABOUT US

Safety



Engrained within the Lauren Engineers & Constructors' culture is a firm commitment to providing our employees, subcontractors, vendors and other customers a workplace free of recognizable hazard. With safety being our first priority, we have developed a safety program that is second to none in support of our commitment. Our program is augmented by extensive on-going employee training, policy and regulatory enforcement by all levels of management, and through an accountability process. To further enhance our program, we have created and implemented a Behavior Based Process, where, in part, supervision participates in the recognition of Safe vs. At-Risk behaviors of workers.

In part, our safety program encompasses:

- ◆ Responsibility and accountability for accident and fire prevention
- ◆ Behavior Based Safety Processes
- ◆ Safety Education and Training
- ◆ Occupational Health
- ◆ Substance Abuse Program
- ◆ Accident Investigations, Trends, Reporting and Analysis
- ◆ Major Loss Causes, Reviews, and Remedial Actions
- ◆ Accident Prevention Procedures
- ◆ Hazardous Substance Communication

We understand that the success of a project and organization as a whole is only achieved through strict implementation of our safety and training program. Through this philosophy coupled with our commitment, Lauren has consistently maintained a safety rating below the industry average.

Our safety program includes more than just promises and good intentions; We are committed to fulfilling our commitments to our customers to provide safe, cost-effective, quality work. As a direct result of this commitment, in October 2010, Lauren reached the milestone of 6,000,000 safe work hours without a lost time incident because of those commitments.



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Engineering

PROJECT DEVELOPMENT & CONTROLS

- ◆ Feasibility Study
- ◆ Power Cycle Design
- ◆ Major Equipment Selection
- ◆ Environmental Permitting Support
- ◆ Site Development
- ◆ Financial Modeling & Support
- ◆ P & ID Development
- ◆ General Facility Layout
- ◆ Project Schedule
- ◆ Project Scope Definition
- ◆ Budget Installed Cost Estimate

MECHANICAL ENGINEERING

- ◆ Equipment Specifications
- ◆ Equipment Layouts
- ◆ Piping Design and Layout
- ◆ Piping Isometrics
- ◆ Pipe Support/Hanger Design
- ◆ Process Skid Design
- ◆ Steam System Design

CIVIL/STRUCTURAL/ARCHITECTURAL

- ◆ Industrial Steel Design
- ◆ Foundation Design
- ◆ Site Development
- ◆ Architectural Building Development

ELECTRICAL ENGINEERING

- ◆ Primary Power Service
- ◆ Electrical Distribution
- ◆ Facility Lighting
- ◆ Communication Systems
- ◆ Fire Detection Systems
- ◆ Alarm Systems
- ◆ Energy Analysis
- ◆ Emergency Electrical Power

INSTRUMENTATION ENGINEERING

- ◆ Control System Design
- ◆ Instrument Loop Diagrams
- ◆ Instrument Specifications
- ◆ PLC & DCS Systems
- ◆ System Programming

STARTUP & COMMISSIONING

- ◆ Registered Professional Engineers
- ◆ Power Plant Testing

AUTOCAD DRAFTING

- ◆ Three Dimensional Modeling
- ◆ Microstation

CHEMICAL PROCESS ENGINEERING



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Construction

- ◆ REGISTERED PROFESSIONAL ENGINEERS
- ◆ ASME CODE STAMPS “A”, “PP”, “U”, “S” - NATIONAL BOARD “R” STAMP
- ◆ LICENSED ELECTRICIANS
- ◆ CONCEPTUAL and BUDGET ESTIMATES
- ◆ PRELIMINARY and DETAILED CONSTRUCTION ENGINEERING
 - Civil Structural Mechanical
 - Piping Electrical Instrumentation
- ◆ SHOP FABRICATION - PIPE SPOOLS and PROCESS SKIDS
- ◆ PRIME CONTRACTOR for WIDE SPECTRUM OF PROCESS INDUSTRIES
 - Electric Power Generation Polymers and Fibers
 - Oil and Gas Production/Refining Pulp and Paper
 - Chemical Processing Industrial Manufacturing
 - Special Metals Alternative Energy
- ◆ DIRECT HIRE - CONSTRUCTION and MAINTENANCE SERVICES
 - Millwrights Boilermakers
 - Pipe Fitters & Welders Heavy Rigging
 - Electricians Heat Tracing
 - Instrument Fitters Instrument Technicians
 - Ironworkers
- ◆ CALIBRATION, STARTUP, COMMISSIONING



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Capabilities

Electric Power Generation

Full Turn-Key EPC
Solar Thermal Power Plants
Gas Turbine/Generators
Gas Turbine Combined Cycle Plants
Steam Turbine/Generators
Distributed Control Systems
Ash Handling Systems
Turbine Water Induction Prevention
Power Piping Installation

Auxiliary Power Utility Boilers
Burner Management Systems
Baghouse & Flue Gas Duct Systems
Condenser Replacement
Scrubber & Precipitator Systems
Plant Water Supply Systems
Substation Design/Build

Chemicals and Polymers

Polymer Semi-Works Facility
Polymer Solid Stating Facility
Esterification Process Addition
Fiber Optic Plant Expansion

Iodides Production Facility
Activated Carbon Plant Upgrade
Drying Kilns
Distributed Control Systems

Oil and Natural Gas

Crude Pumping Stations
Rheinformer Absorption Units
Amine Units
Well Metering and Injection
Sulfur Recovery Units
Water Reclamation Facility
Kerosene Unit

Natural Gas Gathering System
Oily Water Treatment Plant
Refinery Distributed Control Systems
Asphalt Plant Piping
Hydrotreater Units
Naphtha Units
Liquefied Petroleum Gas Terminal

Industrial Manufacturing

Equipment Setting & Calibration
Process/Production Lines
Utility Systems
Boiler & Pipe Fabrication
Instrumentation

Full Scope Construction
Detail Design & Engineering
Budget Estimating
Grass Roots or Retrofits
Plant Relocations



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Services & Capabilities

Refining



Refining

Lauren Engineers & Constructors offers EPC services to the refining industry for the construction of new facilities and revamps of existing facilities. These services include overall project management from economic studies through unit startup, as well as process design and equipment specification, including:

- Crude Distillation
- Vacuum Distillation
- Naphtha Catalytic Reforming
- Hydrodesulfurization
- Fluid Catalytic Cracking
- Alkylation (Sulfuric and HF)
- Thermal Visbreaking
- Product Treating (Merox, Bender, Caustic, etc.)
- Cryogenic Recovery of Light Hydrocarbons

Lauren has also successfully applied its own process technology in conjunction with third party technology, participating in the installation of UOP's Fluid Catalytic Cracking, HF Alkylation, and Merox units.

We are uniquely positioned to support North American customers as they face the challenges of new regulatory work and we are committed to deliver optimum performance and lower installed costs.



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Services & Capabilities

Fabrication Facilities



Fabrication Facilities

- 40,000 Square Foot Enclosed Shop Area
- 3,500 Square Foot Office Area
- 40 Acres of Outside Fabrication and Storage Area
- Adjacent Rail Spur
- Automated Welding and Cutting Equipment
- In-House Full Scope Design Engineering & Detailing
- ASME Compliant Quality Assurance Program (A, PP, U, R & S Code Certifications)
- Material Purchasing and Expediting
- Computerized Scheduling and Tracking Processes
- CNC Pipe Bender up to 3" Capacity
- State-of-the Art Induction Heat Treatment Equipment
- In-house Grit Blasting and Painting



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Services & Capabilities

Fabrication Services



Fabrication Services

ASSEMBLIES

- Pipe Spools
- Pipe Supports
- Process Skids
- Pipe Rack Modules
- Control Panels
- Plate Assemblies
- Pressure Vessels
- Boiler Components
- Platforms

SERVICES

- Automatic Welding
- Stress Relieving
- Polishing
- Painting
- Grooving
- Machining of Special End Preps
- Computerized Scheduling and Tracking
- Computerized Material Control

Lauren Engineers & Constructors is experienced with many different types of materials, including carbon steel, stainless steel, aluminum, titanium, inconel, carpenter 20, hastelloy, and chrome moly including P91. We work under our in-house quality and safety programs and maintain "A", "PP", "U", "R" & "S" code stamps.



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Modularization



Modularization

In today's fast paced construction arena, scheduling and logistics can be the catalyst by which projects are made or broken. Modular construction can give a project the edge that is needed to meet the seemingly unachievable schedules that are often required.

Listed below are some primary advantages:

- Reduction of field manpower requirements
- Mitigation of permitting delays
- Average cost savings of 30% over on-site construction
- Simpler and safer field erection

Process skids and pipe-rack modules can be ready to set in place and connected to adjacent processes with ease. Our staff of engineers, designers, fabricators and constructors can help to make your next project's scheduling manageable. From the conceptual stage through engineering, fabrication and installation, we are ready to meet the challenge. With our multiple craft disciplines and 40 acres of fabrication and storage space at our facility, we are able to meet the industry needs no matter what the requirements. Whether you need equipment skids or pipe rack modules, we can custom build to your specific project requirements. We have the experience to pull it all together.

Other capabilities include:

- Process Control Systems
- Automation of Custom Material Handling Systems
- PLC Programming
- Control Panel Design, Fabrication and Circuit Verification



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REFINING

Froth Treatment Plant



CNRL
Froth Treatment Plant
Fort McMurray, AB, CA

In August 2006, Canadian Natural Resources Limited (CNRL) contracted Lauren as the General Contractor to construct a Froth Treatment Plant at the Horizon Oil Sands Project in Ft. McMurray, Alberta, Canada. Scope of Lauren's work included inclined plate separators, froth area, cyclone area, main pipe racks, Naptha Recovery Unit and Vapor Recovery Unit, electrical substation, and dump pond area for the Froth Treatment Unit.

Project Contact

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REFINING

New ROSE Unit



Holly Refining **New Rose Unit** *Artesia, New Mexico*

Lauren Engineers & Constructors was awarded a contract to build a new ROSE Unit located at the Navajo Refinery in Artesia, New Mexico. Lauren's scope of work included the design, procurement, and installation of a ROSE Unit, utilizing KBR technology. Detailed scope included DCS programming, electrical, instrumentation and all piping. Throughput capacity of the ROSE unit is now 18,000 BSPD. During peak construction, Lauren employed over 100 people. The project, from start to mechanical completion, lasted 23 months.

Project Contact

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REFINING

Install Gas-Oil Hydrotreater Unit



Navajo Refining **Install Gas-Oil Hydrotreater Unit** *Artesia, New Mexico*

Lauren Engineers & Constructors was responsible for all detail engineering design and construction of a gas-oil hydrotreater unit which was relocated from Lawrenceville, Illinois and transported to the Navajo site in Artesia, New Mexico. Engineering scope included all foundation/ civil design, piping drawings & isometrics, pipe stress analysis, pipe rack design, process valve sizing, relief valve sizing, underground duct banks and grounding.

Project Contact

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REFINING

Relocation of Hydrotreater Unit



Valero Energy Corporation
Relocation of Hydrotreater Unit
Alma, Michigan

Lauren was responsible for the dismantling and shipping of a Light Cycle Oil Hydrotreater Unit from Alma, Michigan to Denver, Colorado.

Project Contact

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ABOUT US

Major Project Timeline



1998

Tolaram/Buhler
Ashboro, NC

P.E.T. Solid Stating Facility
\$12,000,000

1999

ABB
Midlothian, TX

Erect 4 HRSGs
\$50,000,000



2000

Kosa
Salisbury, NC

Solid Stating Facility
\$25,000,000

2001

Modern Continental
Las Vegas, NV

Cogeneration Project
\$150,000,000



2002

Navajo Refining
Artesia, NM

Install Gas-Oil
Hydrotreater
\$25,000,000

2003

DAK
Charleston, SC

New Polymers Facility
\$28,000,000



2004

Dominion
Possum Point, VA

Combined Cycle Power Unit
\$250,000,000

2005

Wellman
Bay St. Louis, MS

P.E.T. Expansion Project
\$45,000,000



2006

Acciona Energy
Boulder City, NV

64 MW Solar Power Facility
\$230,000,000

2007

Bosque Power
Laguna Park, TX

Combined Cycle
Power Unit
\$175,000,000



2008

FP&L Martin Solar Energy Center
Indiantown, FL

Martin Hybrid Solar Power Plant

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OUR CLIENTS



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ABOUT US

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