



**PS**DESIGN



**PSDESIGN** offers comprehensive Engineering, Design and Steel Detailing services for a wide range of industries. Our team of diversified engineers, designers and detailers understand our clients' needs and provide solutions based on years of experience and training. Specific areas of expertise include:

### STEEL DETAILING & CONNECTION DESIGN

### MULTI-DISCIPLINE ENGINEERING

Civil/Structural, Mechanical/Piping, Process/Instrumentation, Electrical

### PLANT DESIGN

### INDUSTRIAL MAINTENANCE SUPPORT

### PROJECT MANAGEMENT—EDPCm

Engineering, Detailing, Procurement, Construction Management



### Industries Served

- Refining
- Oil & Gas
- Chemical
- Power
- Pulp & Paper
- Water & Wastewater Treatment
- Food & Beverage
- Infrastructure
- Municipal
- Institutional
- Commercial
- Residential





## Multi-Discipline Engineering



## Structural Steel Detailing & Steel Connection Design

- Site Evaluation & Development
  - Feasibility Studies
  - Conceptual Design
  - Estimating
- Engineering, Design & Analysis
  - Civil/Structural**
    - Finite Element Analysis
    - Seismic Design
    - Vibration Analysis
    - Structural Integrity
  - Mechanical/Piping**
    - Equipment Design & Specifications
    - Finite Element Analysis
    - Piping Design
    - Pipe Stress Analysis
  - Process/Instrumentation**
    - Process Studies
    - Equipment Design & Specifications
      - Material & Heat Balances
      - Pressure Relief System Design
      - Validation
    - Process Control analysis
    - Process Simulation
    - Automation & Instrumentation
      - Design & Evaluation
    - Process Hazard Automation
    - Process Safety Management
  - Electrical**
- Interactive 3D Design
  - SmartPlant 3D
  - RISA 3D
- Structural Steel Detailing & Connection Design
- New Facility or Retrofit Designs
- AutoCad & Microstation Formats
- Continuous Improvement & Maintenance Services

- Engineering & Analysis
  - Estimating
- Connection Design
  - Allowable Stress Design
  - Load & Resistance Factor Design
  - Professional Calculations
- 3D Modeling (SDS/2)
  - CNC Support
  - CIS/2
  - SDNF
- Fabrication Support
  - Materials List
  - Framing & Support Plans
- Documentation Support
  - Detail Drawings
  - Erection Drawings
  - KISS
  - BIF (Bill of Materials File)
  - Advanced Bill of Materials
  - Field List & Summary

## Our Company

**PSDESIGN**, formerly known as Precision Steel Detailing, Inc., (PSD), was established in 1997 and recently changed its name to better reflect the current services of the company. We offer comprehensive Multi-Discipline Engineering, Plant Design, Industrial Maintenance Support and Project Management in addition to Steel Detailing and Steel Connection Design services. Our corporate office is located in Baton Rouge, Louisiana.



**PSDESIGN**