



## ENGINEERING SERVICES

We are a full-service, multi-disciplined engineering firm ready to go to work for you. With our comprehensive services, there's no need to look further than Central Engineering to help you make your next project a huge success.

Here is a complete list of engineering services we offer:

- Turnkey Design/Build
- Design/Bid/ Build
- EPC or EPCm
- Conceptual Engineering
- Feasibility Studies
- Constructability Review
- Basic Engineering
- Detailed Engineering
- Structural Steel Detailing
- Piping Isometrics & Detailing
- Piping Stress Analysis
- Consulting Services
- Structural Integrity Inspections
- Construction Planning
- Construction Management
- Bid Package Creation and/or Procurement
- Start-up and Commissioning
- API Tank Design
- ASME Pressure Vessel Design
- Finite Element Analysis (FEA)
- 3D Plant Modeling
- PSM/HAZOP Analysis

## PROJECT DELIVERY OPTIONS THAT MEET YOUR NEEDS

### Design | Bid | Build

The traditional approach to project delivery is a three phase process with each phase occurring subsequent to the last. We can produce any level of design desired up to and including the preparation of bid packages to go to the fabrication/construction provider of your choice. Better project scope definition and engineering packages by Central Engineering allows for more accuracy in bidding which leads to better control over project schedule and costs. We can even manage your construction project done by others.

### Design | Build

Design-Build is by far the fastest growing method of project delivery in the US. Its popularity is owner-driven primarily because of shortened project delivery times due to concurrent phases (aka "fast tracking"). With a single point of responsibility for engineering and construction, the design and build phases actually overlap reducing the time it takes to get your project completed. Other advantages include earlier cost visibility, reduced costs, and reduced owner administrative burden. By nature, this project delivery method is a true Engineering, Procurement, and Construction (EPC) solution.

## WE USE THE MOST CURRENT AND RELEVANT DESIGN TECHNOLOGY

With Central Engineering you can rest assured that only the latest and most relevant design tools are used on your projects. Whether it is a standard 2D engineering drawing or a state-of-the-art 3D model of your plant project, we will work with you to determine which tools will give you the best overall value.

Here is a partial list of design tools that our trained staff works with every day:

- AutoCAD for 2D/3D drawings.
- AutoDesk Inventor 3D for solid modeling.
- Tekla 3D for structural detailing and design.
- Algor Finite Element Analysis (FEA) for stress and fatigue analysis.
- STAAD for structural design and load analysis.
- COMPRESS for ASME code vessel/exchanger design.
- E-Tank for API atmospheric tank design.
- Plant Design Systems for 3D modeling.
- Microsoft Project for planning and scheduling.

**Call us for your industrial engineering and project delivery needs. We will help make your next project an overwhelming success!**

**Call us today! 1-813-737-4715**

