



# VENTURE

## Engineering & Construction

Engineering Solutions for Process Industries

800 Waterfront Drive | Pittsburgh, Pennsylvania | (412) 231 - 5890  
[www.VentureEngr.com](http://www.VentureEngr.com)  
[info@VentureEngr.com](mailto:info@VentureEngr.com)

# VENTURE ENGINEERING AND CONSTRUCTION



**Venture Engineering & Construction** is a closely held, multi-disciplinary engineering and construction management company based in Pittsburgh.

Venture Engineering and Construction was created in 2007 in response to the following needs:

- The need for a process focused organization to serve process industries. In particular: green fuels, water/wastewater, energy, consumer products/healthcare, and other industries that require process engineering.

- The need to complement the process emphasis with complimentary and necessary services: estimating, design, construction management, and commissioning.

- The need for these services to be adaptable to the client's internal capabilities, with minimal constraints.

#### We do this by:

- Creating an environment that attracts and holds great people, by equipping, training, and sharing the rewards of success.

- Constantly recruiting the best and the brightest people.

- Embracing tools and systems that streamline project execution, enhance quality, support communication and mobility, and eliminate redundant effort.

Venture is a leader in **green energy solutions** such as landfill gas plants, cogeneration facilities, and waste-to-energy plants.

Read on for more information. Or call us at (412) 231-5890 to learn more about how we can serve you!

## PROCESS ENGINEERING

Venture Engineering's process engineering staff has diverse expertise in a multitude of processes:

- **Process Control** - Experience with most PLC and DCS Systems, including regulatory and advanced control schemes.

- **Chemical Engineering** - Process simulations run the gamut of unit conversions, using tools such as ChemCAD and others.

- **Services** - Safety audits, HAZOP facilitation, relief valve verification, and assistance with necessary application and implementation processes.

Our seasoned process engineering staff are trained and certified in a variety of regulatory requirements such as Process Safety Management and hazards analysis.

From P&ID development through start-up, the company can support any process engineering function.



## INSTALLATION ENGINEERING

Venture Engineering offers multidisciplinary design solutions, building on the front end package to produce a complete installation work product. The design can be executed in our offices, in our client's offices, or on site, as the project requires. Typically, our work is balance-of-plant; however, we have assisted clients in the development of proprietary processes.

Our groups consist of Project Management, Process, Mechanical, Instrumentation/ Electrical, Civil/Structural, and Environmental. Each department has its own pool of dedicated engineers and designers.

## TECHNOLOGY

Venture Engineering is committed to equipping our staff and serving our clients with technology that **streamlines project execution and prevents errors**. We utilize intelligent AutoCAD tools, 3D design, state-of-the-art modeling, and promote training to take full advantage of the capabilities of these tools.

Examples include: AutoCAD P&ID, AutoCAD Electrical, AutoCAD Inventor, ChemStations, and remote access servers.

## ESTIMATION

Venture offers **scope and estimate studies** through appropriation grade capital cost estimates.

Venture's engineers work with the client's objective to formulate a detailed and accurate estimate.

**Accuracy is refined** as the project progresses, through more rigorous treatment of the schedule, vendor quotes, take-offs, and application of cost factors unique to the project location and type of work.

The work breakdown structure and project schedule develop with the estimate to **provide useful tools** from issuing the first contract to closeout.



## CONSTRUCTION MANAGEMENT

Venture provides clients professional construction management services, as Owner's Agent.

- As Construction Manager, Venture manages the project from pre-construction through construction, commissioning, and startup.
- An on-site team is provided to meet the needs of the project including project management, contract administration, document control, cost control, area managers, inspectors and a project commissioner.
- Venture prepares a construction schedule based on how the contractor will execute the work.
- Venture prepares a procurement strategy reflecting the owner's priorities and market conditions.
- Venture provides the owner with lists of qualified bidders, tabulates bids, and makes recommendations.
- Clients are offered valuable builder's insight without the various tiers of subcontract mark-ups.

The preferred approach is the open-book approach designed to ensure the least-cost alternative for the client while maintaining single-point project responsibility of a traditional EPC.

## TEAM WORK

Venture is a **strong believer in the team approach**, and we work collaboratively with our clients to bring the right skills to the project. As needed, Venture will undertake procurement, construction support, construction management, commissioning, and closeout.

We work closely with clients' experts in operations, engineering, or commissioning to provide **the right solution**.

## PROJECT MANAGEMENT

We practice balanced matrix management, in which staff are assigned to a project and report on a day-to-day basis to project managers, while their overall performance is overseen by their respective discipline managers. For construction projects, staff is dedicated to that project, and accountable to that manager, for the life of the project.

Venture uses Deltek Vision, a fully integrated enterprise software system for accounting and project management. We manage time and expense, billing, resource management and project planning through one central system. Project managers see hours and expenses as they are logged by employee, before they are posted, with no bottleneck from double entry of data (and no errors), allowing real time control. Reports can easily be customized to meet client requirements. At weekly planning meetings, hours are rolled up by staff member for each project, and reviewed in the context of schedules and deliverables, to plan realistically and balance hours.

# Why Choose Venture Engineering & Construction?



Leader in green energy solutions.

Innovative staff for maximum effectiveness.

Responsible for our budget, responsible for our solutions.

Emphasis on close relationship with clients to provide the right solution.

State-of-the-art technology that streamlines project execution and prevents errors.

Practice the profession with integrity, a commitment to quality, and uncompromising ethics.

Capable of undertaking all types of process and energy projects regardless of complexity or specialty.

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