



*We think differently.*



## ABOUT US

Nexus Engineering Group is a full-service, independent engineering firm focused on supporting clients' specific project goals from concept to startup. With more than a dozen years of proven engineering and design successes, Nexus is the preferred engineering firm of choice when seeking integrity and expertise.



Nexus performs best when faced with complex and demanding projects in the refining, petroleum midstream, chemical, and manufacturing and utilities industries. Our teams have the talent and moxie to tackle all sizes of projects for local and international clients seeking to design, build, and construct highly technical and functional facilities.

With more than 100 professionals that you will enjoy working with, Nexus is more than just your typical engineering firm. Clients come to us for our expertise, creativity, passion, and relentless focus on their goals.

## MISSION

Linking today's strategies to tomorrow's competitive advantage with skilled engineering and project management services.

### Safety.

Design through construction and into operations.

### Integrity.

Unwavering personal and professional ethics.

### Quality.

Define and meet project requirements every time.

### Service.

Be responsive, agile and timely to client's request.

### Value.

Continuous focus on driving delivery costs down.

VALUES



## CAPABILITIES

The high-energy staff at Nexus is made up of experienced process, instrumentation and controls, structural, electrical, mechanical, and piping professionals with decades of hands-on conceptual and detailed system design and construction and project management experience. Many Nexus professionals are industry recognized thought-leaders in their fields.

Nexus extends our clients' capabilities by providing the vital engineering, design, project management, and support services needed to effectively deliver individual projects and entire investment programs.

### BUSINESS CASE DEVELOPMENT & CONCEPTUAL PROCESS DESIGN

#### Refinery Processes

- Crude and Vacuum Units
- Hydrotreating
- Hydrocracking
- Alkylation
- Light Ends Recovery and Treatment
- Amine Systems
- Sulfur Recovery Units (SRUs)
- Catalytic Reforming including CCRs
- Catalytic Cracking (FCCs)
- Coking
- Distillation
- Flare System Evaluation
- Flare Gas Recovery

#### Chemical Processes

- Continuous and Batch Processing
- Solids Processing
- Material Handling
- Pigging Systems
- Logistical Assessments

#### Process Safety

- Process Hazard Assessment (PHA) Participation
- Layer of Protection Analysis (LOPA) Participation
- Risk Identification, Assessment and Mitigation
- Relief Valve Assessment
- Critical Alarm System Analysis
- Inherently Safer Design (ISD)

#### Utility Systems

- Electrical Supply, Substations and Distribution
- Steam Systems
- Fuel Gas
- Energy System Balances and Optimization
- Plant and Instrument Air Supply and Distribution
- Cooling Water Towers and Distribution
- Process and Wastewater Sewers
- Firewater
- Nitrogen
- Hydrogen

### CONSTRUCTION COMMISSIONING & TURNAROUND SUPPORT

- Construction Management
- Construction Administration and Support
- TAR Planning and Scheduling
- Environmental Health and Safety Programs
- Commissioning Planning
- Procedure Development
- Completions Planning
- Close Out Documentation and Turnover

### PROJECT SERVICES & CONTROLS

- Scheduling
- Estimating
- Status Reporting
- Risk Assessment and Mitigation
- Information and Document Management
- Lessons Learned Capture
- Quality Assurance

### ENGINEERING & DETAIL DESIGN

- Project Management
- Project Services and Controls
- Full Service Engineering
- Process Modeling
- Design Services
- Laser Scanning
- 3D Modeling and Design Development
- Conceptual Project Development (FEL-1 Studies)
- Option Identification & Economic Assessment (FEL-2)
- Definitive Engineering & Economic Assessment (FEL-3)
- Execute Engineering
- Process Safety
- Utility Systems



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## At Nexus, we think differently.

We feel that engineering firms shouldn't focus on maximizing hours, or be the task-oriented businesses of the past. An engineering firm should be easy to work with and share the same passion and drive for project goals as the client. Engineers should be aligned and engaged with the client from the very start, which is critical to the success of complex projects.

Nexus is not your typical engineering firm. Our professionals bring decades of experience, skill, and expertise to every project. Teams of creative and talented professionals focus on customers' goals as if they were their own. No one else brings the passion and moxie to the table to tackle challenging projects like the people at Nexus do.

If you are looking for an engineering firm that thinks differently, performs better, and has your best interest at heart, look to Nexus. Not only will our teams get the job done right, we think you will genuinely like working with us, too.

1422 Euclid Ave., Suite 1400  
Cleveland, OH 44115

**216.404.7867** | [nexusegroup.com](http://nexusegroup.com)

CLEVELAND TOLEDO HOUSTON

