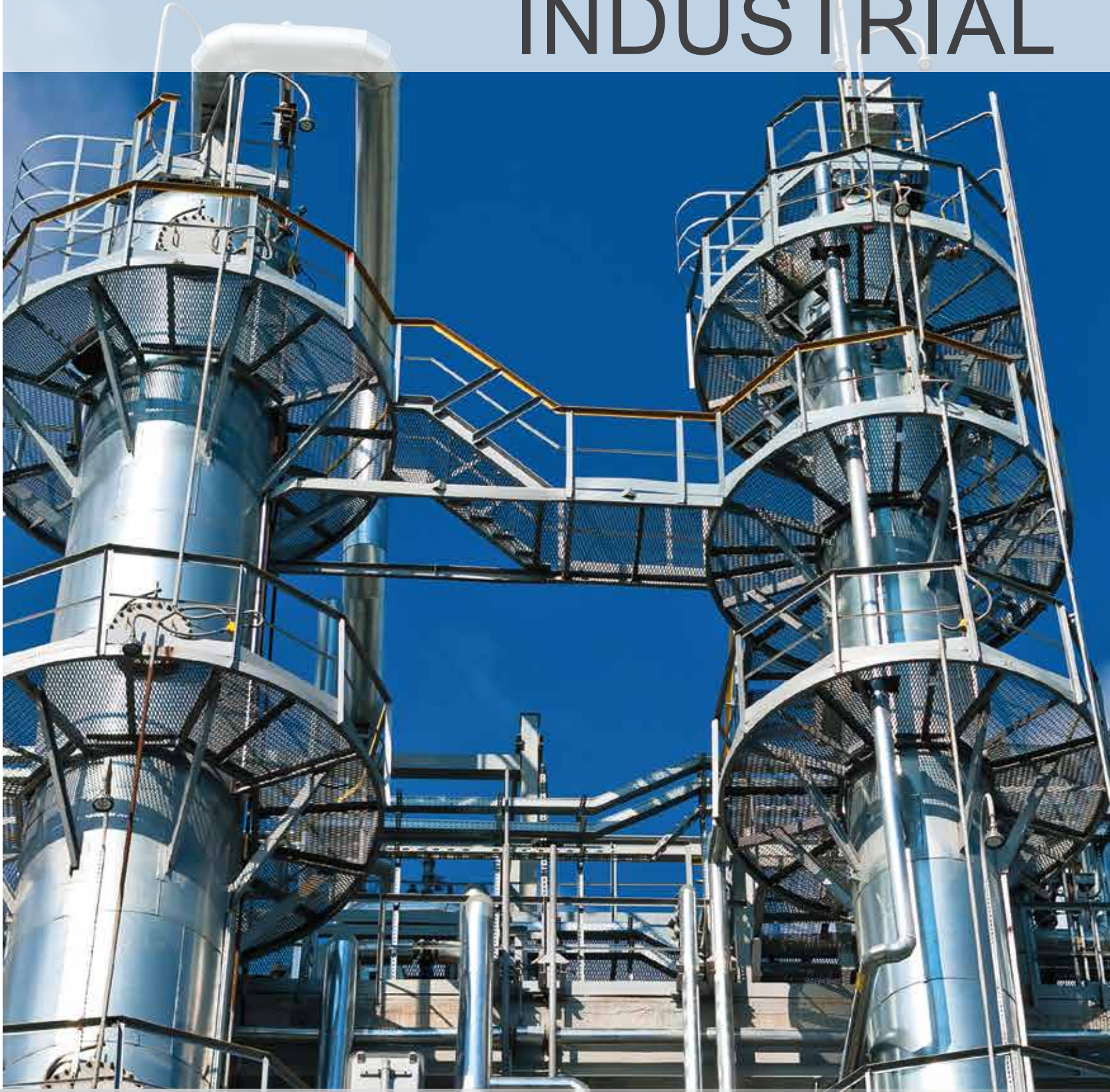


# INDUSTRIAL



*Architects • Engineers • Surveyors*



# Quality you can trust. Experience you can count on.

Pickering Associates' highly professional staff includes engineers, designers, and support personnel. Our sole focus is complete customer satisfaction. Our collaborative team specializes in project development, project management, and engineering services in the industrial, manufacturing, institutional, and commercial sectors.

A broad client base reflects our highly diversified approach to meeting the challenges of each project. By integrating our expertise in process, mechanical, civil, structural, and electrical engineering, and automation & controls with extensive experience in project management and safety inspection and training, we are able to bring innovative thinking to design and execution of every project. We also have a dedicated BIM specialists group to fulfill needs for schematics and diagrams for everything from electrical and piping systems to steel construction.

What sets us apart is our ability to conceptualize, plan, and deliver all phases of our clients' projects. Whether you are looking for small scale electrical or mechanical design installations, large scale process renovations, or complete commercial facility construction, Pickering Associates will bring state-of-the-art engineering, tools, and techniques to your project.

## Project Management

- Project Management Professionals (PMP)
- Project Scope Definition & Development
- Budgeting & Scheduling
- Permitting

## Process Engineering

- PFD and P&ID Development
- Mass & Energy Balances
- Equipment & Piping Specification

## Process Safety Management (PSM)

- Process Hazard Analysis (PHA)
- Mechanical Integrity
- Incident Investigations

## Mechanical Engineering

- Dust Collection
- Heating, Ventilation, & Air Conditioning (HVAC)
- Cooling Towers

## Civil Engineering

- Site Layout & Grading
- Water/Sewer Layout & Design
- Pavement Design

## Structural Engineering

- Foundation & Building Design
- Bridge Design & Load Rating
- Blast Wall Design

## Environmental Science

- Wetland & Stream Delineations
- 404/401 Permitting
- On-Site GPS Survey Grade Utility Mapping

## Electrical Engineering

- Site Electrical Design
- Substations
- Arc Flash Analysis

## Automation & Controls

- Authorized Rockwell Systems Integrator
- DCS & PLC Control System Design
- Start Up, Commissioning, & Call-Out Services

## Construction Administration

- On-Site Construction Observation
- Change Order Management
- Final Inspection & Punch List

## Other Services

- 3D Scanning, Drafting, & Printing

## Manufacturing

Pickering Associates has decades of experience serving the manufacturing sector and offer full service support to an array of manufacturing industries. We are very experienced with the Front-End Engineering Design (FEED) process and routinely implement these steps in our project execution, from concept to start-up of operations. Relying on our significant manufacturing experience balanced with our roots in construction, our team of design professionals provides detailed fieldwork required to prepare the construction drawing package needed to turn the vision into reality.

## Chemical Industry

Pickering Associates is a trusted resource to the chemical industry of the Mid-Ohio Valley. Our multi-discipline engineering staff enable us to follow a project from concept through preliminary and then detailed design to the construction and commissioning of the final product. We are a fully integrated EPCM (Engineering, Procurement, Construction, Management) firm. We use the FEED process to establish the cost viability of the project. All of this work will be accomplished using your standards and preferences.

Our Process Safety Management (PSM) experience allows us to ensure the completed project is in compliance with OSHA 29 CFR Part 1910.119. Our certified facilitators can lead the Process Hazard Analysis (PHA) or revalidation required for covered processes.

## Metals & Other Industries

Pickering Associates experience extends beyond basic manufacturing and chemicals. The procedures and tools we use for the manufacturing and chemical industry sectors allow us to successfully completely projects in other sectors as well. Whether it is a small maintenance project or a multi-million dollar capital project Pickering has the skill and experience to deliver it to successful completion.

We have direct project experience in:

- Aluminum Smelting & Reduction
- Electric Arc Furnaces
- Carbon Black Processes

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We look forward to partnering with you.

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