

### Federal Certification

Registered small business

### SAM UEI Code

CDWLDTF9CU49

### CAGE Code

6S2J4

### North American Industry Classification System (NAICS)

541330 – Engineering Services



# FROELICH

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## ENGINEERS

CIVIL • STRUCTURAL

## Our Mission

The mission of Froelich Engineers is to bring an innovative, comprehensive partnership to the engineering design experience. Whether the project is large or small, we achieve and maintain a trusted and valued role among our clients by providing quality services and personal respect.

We believe that an engineer's contribution to the building industry is to deliver solutions that come from a place of deep integrity and creativity. We always strive to offer solutions that present the best fit for our client's unique needs.



One North Portland, OR

## Core Capabilities/Services

Froelich Engineers cultivates a can-do culture that produces creative solutions to complex projects. Our inquisitive, positive attitude has made us a favorite of creative design professionals and forward-thinkers.

Froelich Engineers offers two major branches of engineering services:

- Civil
- Structural
  - Within structural engineering, we offer a variety of specialty services.

## Civil Engineering

Froelich Engineers offers expertise in civil engineering for urban, suburban, and master plan properties paired with unmatched client service.

Our services include:

- Site development
- Utility infrastructure
- Low impact development
- Stormwater management



Arrowrock Dam Elmore County, ID

## Structural Engineering

We have extensive design experience with a variety of materials:

- Structural steel
- Reinforced concrete
- Post-tensioned concrete
- Reinforced masonry
- Light and heavy timber

We have provided services to a broad range of building types, including:

- Adaptive Reuse / Seismic Retrofits
- Commercial
- Education
- Healthcare
- Hospitality
- Housing
- Hydropower and Utilities
- Industrial
- Public Works
- Recreation

## Specialty Services

We offer specialty services to owners, contractors, consultants, and manufacturers in different industries such as infrastructure, energy, mining, and transportation. In our decades of experience, we have built specialized knowledge in a number of engineering sub-disciplines, including:

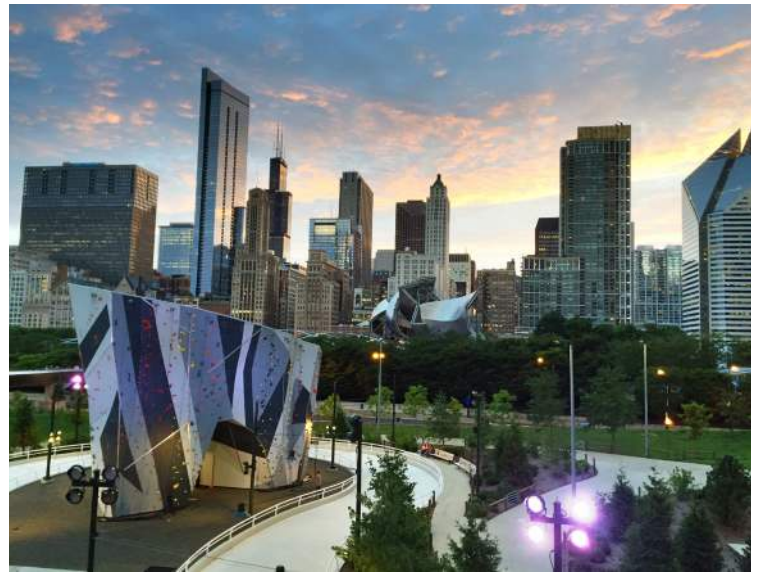
- Seismic Evaluation and Retrofit
- Performance-based Design
- Nonlinear Analysis and Design
- Dynamic Analysis (time-history, response spectrum, and vibration)
- Finite Element Methods
- SSI (Soil-structure Interaction)
- FSI (Fluid-structure Interaction)
- Base Isolation and Energy Dissipation
- Fatigue and Fracture Mechanics

We have also worked on a number of large multi-disciplinary projects for federal and municipal entities, including:

- Dams, Spillways, and Powerhouses
- Bridges
- Marine Structures
- Deep Shafts and Specialty Foundations
- Embedded Structures and Pipelines
- Unreinforced Masonry
- Structural Strengthening and Repair
- Timber Truss Assemblies
- Climbing Walls



Broadmoor Ropes Course Colorado Springs, CO



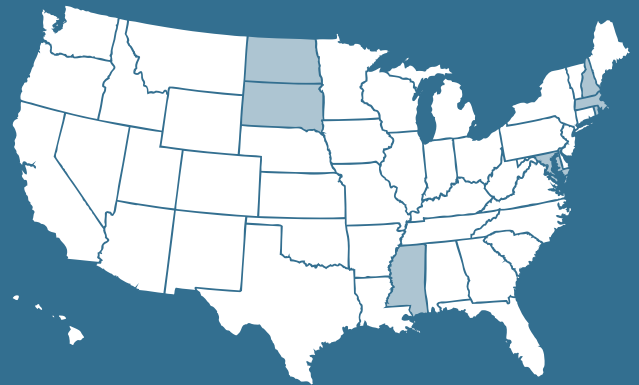
Maggie Daley Park Climbing Wall Chicago, IL

## Public Sector Clients

Bureau of Reclamation  
National Park Service  
US Forest Service  
Oregon Department of Transportation  
County Governments  
Municipal Governments  
Oregon State University  
University of Oregon  
Community Colleges  
School Districts

## Licensures

We are licensed in 44 states and the capital.



(503) 624-7005

froelich-engineers.com