



INDUSTRIAL PROCESS ENGINEERING

Our multi-discipline team of professionals are customer focused and have the experience to get the job done right. We have experience in various industrial/process industries such as: Power, Petroleum and Chemical, Mining, Iron Processing, Manufacturing, Pharmaceutical, and Food Processing.

Our industrial and process capabilities draw on the broad expertise from all of Ulteig's sectors to ensure that solutions become a reality. Our industrial and process engineering services are described below.

MECHANICAL SERVICES

- Biogas utilization systems
- Geothermal heat pump systems
- Heat/energy recovery systems
- Chilled water systems/distribution

ELECTRICAL SERVICES

- Design of control systems
- Start-up and commissioning
- Design maintenance
- Monitoring systems
- Trouble shooting
- Design of site and security lighting
- Design of wireless
- Design of switchgear
- Design of VFD and MCC's
- Arc flash hazard analysis
- Emergency power system design

CIVIL/STRUCTURAL SERVICES

- Analysis of existing structures
- Design and analysis of new structures
- Foundation design for structures
- Steel, masonry, concrete, wood, prestressed concrete, and aluminum design.

FIRE PROTECTION SERVICES

- Water supply design and analysis
- Alternative suppression system design
- Automatic sprinkler system design
- Specialized fire safety design
- Permitting for HAZMAT and certificate of occupancy
- Explosion analysis
- Fire modeling
- Code analysis
- AHJ coordination
- Outdoor storage area and tank farm evaluation
- Fire safety inspections

ENVIRONMENTAL SERVICES

- Corridor studies
- Working with local governmental agencies to fulfill permitting requirements
- State and federal environmental documents (PCRs, CATEXs, EAs, EAWs, EISs)
- Decision-making documents (FONSI, RODs)
- Agency coordination to meet the requirements of state and federal laws and regulations
- Wetland permits

Our staff understands the challenges of the current market and knows how to deliver electricity, fossil fuel and renewable energy resources, as well as communications. Our full service practice offers comprehensive planning, routing and permitting, engineering, surveying and right-of-way acquisition services.

