

Data Center Services Across the Project Lifecycle

Data center developers face significant hurdles when getting new facilities up and running — from siting and permitting delays, community perception and impact concerns, and understanding complex regulations and compliance requirements.

With expertise in environmental, geotechnical, facilities, and materials testing services, paired with over 20 years' experience serving data center clients, Terracon moves data center projects quickly, safely, and sustainably, from due diligence to operations.

Terracon guides data center developers through site selection, grant processing, permitting, regulatory and NEPA

compliance, and more, helping make informed decisions at every step. We partner with architecture and engineering design firms on site development and building design, and with general contractors on construction quality control and monitoring.

In an industry where speed to market is critical, our ability to mobilize the nation's largest fleet of subsurface exploration equipment and a network of 150 testing laboratories is a significant competitive advantage. With 200 offices and over 8,000 professionals, Terracon's nationwide resources mean we can quickly deliver services to meet project needs — in any U.S. location.



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Terracon Services | Data Center Project Lifecycle



Select Site

Site Acquisition and Selection Due Diligence

- Site Selection ([Pivvot](#))
- Siting and Routing ([Stage1](#))
- Stage1 Assessments
 - Soil/Site Conditions - Geological Hazards
- Historical Records
- Desktop Reviews
 - Wetlands - Cultural
 - Environmental - Regulatory Compliance
 - Threatened and Endangered Species
- PFAs Assessments
- Permitting
- Funding
- Environmental Site Assessments, Phase I and II
- NEPA Assessments/Impact Statements
- Natural and Cultural Resource Studies
- Wetlands Delineation and Mitigation
- Air Emissions and Water Permitting
- Preliminary Geotechnical Site Exploration
- Property Resilience Assessment
- Asbestos and Hazardous Building Materials
- Due Diligence Assessments
- Sustainability Consulting
- Water and Wastewater Assessments

Design/Mitigate

Environmental Services

- Natural and Cultural Resource Compliance
- Stormwater Planning and Compliance
- Air Permit Planning and Compliance
- Code Compliance and Specifications Review
- Acoustical Consulting and Sound Analysis
- Water and Wastewater Design/Engineering

Facilities Services

- Design Peer Reviews
- Building Enclosure Consulting
- Commissioning Cx/BECx/RetroCx
- Roof Consulting/Design

Geotechnical Engineering

- Field Exploration and In-situ Testing
- Site Specific Laboratory Testing Program
- Geologic and Geotechnical Hazards
- Evaluation & Mitigation
- Geophysical Surveys
- Thermal and Electrical Resistivity
- BIM 3D Modeling (Bedrock and Other Surfaces)
- Geotechnical Consulting, Analysis, Design Recommendations
- Permanent and Temporary Pavement Designs
- Sustainable Pavement Designs

Construct

Environmental Compliance

- Remedial Management and Oversight
- Air, Dust, Noise and Vibration Monitoring and Analysis
- Stormwater Monitoring
- Noise Compliance/Noise Wall Design

Facility Services

- Building Enclosure Oversight/Testing
- Commissioning Oversight
- Energy Code Inspections
- Construction Quality Assurance
- Roof Observation/Testing

Geotechnical Engineering

- Geotechnical Engineering Construction Support
- Geotechnical Observation and Testing
- Energy Code Compliance
- Haul Road Planning and Optimization

Materials Services

- Construction Quality Assurance/Quality Control
- Special Inspection and Materials Testing
- Observation and Monitoring
- Materials Engineering
- Laboratory Testing and Analysis
- Construction Administration

Manage Assets

Environmental Compliance

- Industrial Hygiene/Indoor Air Quality
- Hazardous Materials Management
- Conduct Compliance Audits

Facility Services

- Asset Management Programs
- Building Enclosure Consulting
- Facility Condition Assessments
- Roof and Pavement Management
- Repair/Maintenance Design and Construction
- System Performance/Diagnostics Consulting
- Property Condition Assessments
- Adaptive Re-Use Assessment
- Sustainability Consulting

Geotechnical/Materials Engineering

- Diagnostic Investigations
- Pre- and Post-Roadway Condition Surveys

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