

Expert Services to Advance Nuclear Energy

As a reliable, zero-emission source of baseload power, nuclear energy is poised to play an increasingly important role in meeting future energy needs, supported by continued federal investment and policy initiatives. Utilities, energy developers, engineers, and contractors need a trusted partner who can identify risks early, support critical decisions, and keep complex projects moving forward.

Early project decisions can significantly influence schedule, cost, and long-term performance. Using proprietary data tools, Terracon helps identify environmental and geotechnical constraints before fieldwork begins, allowing project teams to evaluate alternatives, reduce uncertainty, and make informed investment decisions. Through environmental due diligence, geotechnical risk assessment, and site characterization, we help establish a strong foundation for successful project execution.

As projects advance, our multidisciplinary teams provide environmental investigations, geophysical studies, subsurface exploration, groundwater evaluation, foundation testing, materials testing, and construction support services to reduce risk and inform engineering decisions.



For geotechnical exploration and materials testing services that support nuclear facilities, Terracon's NQA-1 quality program provides the documentation, traceability, and quality assurance required for many nuclear projects. This quality-focused approach helps clients meet stringent requirements while maintaining confidence in critical project data and testing results.

Backed by more than 60 years of engineering consulting experience, a nationwide network of offices and laboratories, and over 15 years supporting nuclear projects, Terracon delivers the technical expertise, geographic reach, and quality-driven approach needed to support the next generation of nuclear energy development.

CONTACTS

Maryline Daviaud Lewett
National Client Manager
Emerging Power Markets
(510) 469-2025
maryline.daviaudlewett@terracon.com

Mike Heller
National Director
Power Generation & Transmission
(860) 306-4718
mike.heller@terracon.com

SERVICES ACROSS THE PROJECT LIFECYCLE

Terracon delivers environmental, geotechnical, and materials consulting services throughout the nuclear project lifecycle to support planning, design, construction, and regulatory compliance.

Site Selection, Planning & Permitting

- Desktop site screening (Pivvot)
- Environmental and geotechnical risk identification (Stage1)
- Feasibility studies
- Environmental and geotechnical risk assessment
- Environmental compliance and permitting
- Environmental site investigations

Design & Mitigation

- Geophysical investigations
- Subsurface exploration
- In-situ testing
- Groundwater monitoring and evaluation
- Foundation engineering support
- Regulatory risk management

Construction

- Deep foundation testing
- Foundation and slope monitoring
- Vibration monitoring
- Materials testing and inspection
- Structural steel testing

Regulatory Compliance & Operations

- Radiological monitoring and waste management
- Groundwater and soil contamination assessment
- Air quality and emissions support
- Environmental impact assessments
- Ongoing environmental compliance monitoring

Our nuclear project experts combine environmental, geotechnical, and materials consulting services with 15 years of NQA-1 quality program experience to support compliance requirements, reduce risk, and advance complex nuclear projects.



Learn more about
our nuclear
energy services