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Engineering Services

Protecting, Enhancing, and Restoring our Environment

Creating solutions and delivering results since 1976

CTI AND ASSOCIATES, INC. (CTI) is a multi-disciplinary engineering and construction project-delivery firm specializing in Engineering, Environmental Compliance and Remediation. We integrate planning, analysis, engineering design, construction, and operations services to provide total project solutions that consistently meet and exceed client expectations. CTI's more than four decades of proven performance in the federal, state, municipal, and commercial market sectors is a true testament to our ability to deliver safe, reliable, and cost-competitive services, on schedule and within budget. Over the past decade, CTI has successfully executed 100's of projects for US DOE NNSA, EM, and Office of Science Sites, and for IDIQ Task Orders and project-specific contracts in support of the USACE, NAVFAC and AFCEC. CTI's engineering services include:

WASTE CONTAINMENT DESIGN AND ENGINEERING

- Low Level Radioactive Waste, HazWaste, Mixed Waste, Demolition Debris, and Coal Combustion Residual (CCR)
- Site Characterization, Hydrogeologic Investigation, and Permitting
- Liner and Geosynthetics Engineering, Final Cover Design, Leachate Management and Surface Water Management
- Complete D/B Capabilities including Construction Management, Engineering, Self-Performed Construction, Quality and Quality Control
- Treatment / Removal of PFAS in Landfill Leachate
- Compliance, Operations and Post-Closure Care
- Construction Planning for Mass Earthwork, Geosynthetics, Pumps/Piping and Site Infrastructure

GEOTECHNICAL ENGINEERING

- Intrusive and non-intrusive (geophysical) investigation
- Ground Improvement Engineering
- Foundation Engineering
- Groundwater, Slope Stability, and Settlement Analyses
- Reinforced Slope and Earthen Retaining System Design

RADIOLOGICAL AND GENERAL SAFETY

- Radiological Facility Feasibility Study, Design, Characterization, D&D & Final Closure Verifications
- Radiological Program Assessments and Continuous Improvement Evaluations
- Radiological Modeling and Dose Assessments
- Radiological Performance Assessments, Technical Specifications and Transportation
- Technical Training and Instruction
- General Safety: Radiological, Confined Space, Hazard Assessments, Field Oversight for Construction
- Emergency Response and Management
- Safety Assessments and Safety Basis
- Environmental and Ecological Assessments

Corporate Headquarters

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Farmington Hills, MI 48331

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Engineering Services Representative Experience

PennDot I-99 Slope Protection

Designed/inspected construction of unique geosynthetic system, covering 1.5M ft² of steep exposed acid rock slope preventing rainwater from leaching acid and metals into local drinking water and wildlife habitat.



Geotechnical Evaluation at Y12 National Security Complex

Performed a geotechnical evaluation of the geosynthetic components of the multi-layer system for landfill bottom liner system and leachate collection system.



Landfill Closure Design at Lone Star Army Ammo Plant

Performed geophysical and intrusive investigations, engineered a RCRA-compliant landfill cap, developed closure plans consistent with TECQ requirements.



Representative Clients



Office Locations

- Farmington Hills, MI (Headquarters)
- Aiken, SC
- Akron, OH
- Knoxville, TN
- Los Alamos, NM
- Idaho Falls, ID
- Oak Ridge, TN
- Sheboygan, WI

CTI's Federal Footprint

