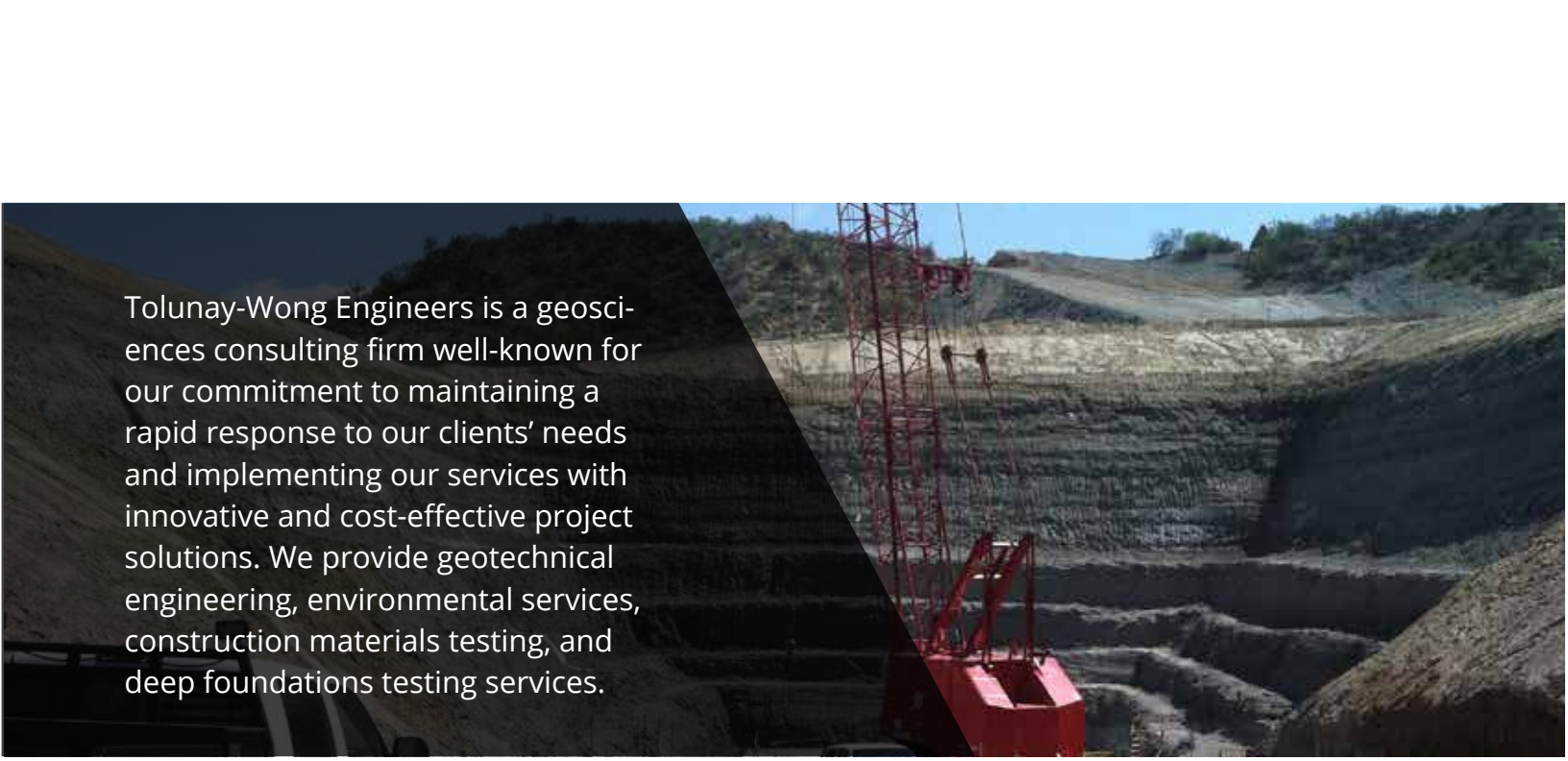




WE ARE A FULL-SERVICE
GEOSCIENCES
CONSULTING FIRM



TOLUNAY-WONG
ENGINEERS



Tolunay-Wong Engineers is a geosciences consulting firm well-known for our commitment to maintaining a rapid response to our clients' needs and implementing our services with innovative and cost-effective project solutions. We provide geotechnical engineering, environmental services, construction materials testing, and deep foundations testing services.

Tolunay-Wong Engineers, Inc. (TWE) was co-founded by Daniel O. Wong, PhD, PE, with the vision of becoming a premier, multi-disciplinary consulting firm in Houston, Texas.

Since our inception in 1993, we have grown from a small staff to more than 350 engineers, scientists, technicians, and support personnel located in offices throughout Texas and Louisiana. We have remained committed to our founding principles—to partner with our clients in providing high-quality, economical, and timely services. Our commitment is measured by more than 20 years of continuous service, investment in sustained growth, and continuity of key senior staff.

Our core areas of service include geotechnical engineering, environmental services, construction materials testing, and deep foundations testing.

Within each of these core service areas, we provide a wide range of consulting and testing services for projects located throughout the Gulf Coast, the United States, and the world. Our hallmark is seeking innovative and unique solutions to challenging problems that have economic and scheduling benefits for our clients.

TWE recognizes the benefits of a corporate commitment to employee health and safety and fosters a culture of safe working practices. It is our policy to provide a safe and healthy workplace for our employees and to observe all state and federal laws and regulations. We are committed to training our employees to follow safe practices and to recognize and correct unsafe working conditions.



QUALIFICATIONS

Tolunay-Wong Engineers strives to provide the best quality services to our clients through safe work practices and superior technical capabilities, demonstrated by a quality system compliant with ASTM E329 and ISO Guide 17025. The American Association for Laboratory Accreditation (A2LA) has accredited TWE's Houston and Corpus Christi offices' quality system for technical competence in the fields of geotechnical testing and construction materials testing. In addition, our Baton Rouge and New Orleans laboratories have been audited and validated by the Corps of Engineers Material Testing Center. The Baton Rouge laboratory facility is also AASHTO-accredited and TWE's QA program has been found to be compliant with ASME NQA-1-2008.

TWE also realizes the importance of security at our clients' project sites. Our goal is to always provide quality, timely, cost-effective, and customer-focused services. TWE is very proactive in our pre-qualification process, and we are currently **approved** by several pre-qualification entities, such as ISNetworld and Avetta, as well as many major owners and EPC firms.

GEOTECHNICAL ENGINEERING

Soil Borings and Cone Penetrometer Tests (CPT)

Geotechnical Instrumentation and Monitoring

Slope Stability and Slope Remediation

Marine and Dock Structures

Erosion and Groundwater Control

Groundwater Improvement

Shallow and Deep Foundations

Geological Fault Hazards

Levee/Embankment Design and Evaluation

Earth Structures and Retention Systems

Laboratory Testing

Finite Element Analysis

Soil Dynamic Properties

Soil Liquefaction

Geophysical Services (GPR, EM)

Forensic Studies



ENVIRONMENTAL SERVICES

DRILLING

Monitoring Well Installation
Well Plug and Abandonment (P&A)
Soil Sampling
Construction Dewatering
Sludge Sampling
Sediment Sampling

SAFETY

Safety Consulting
Safety Training
Project Safety Services

REMEDIATION

Phytotechnologies
Monitored Natural Attenuation
Groundwater Recovery and Treatment Systems
Soil/Sediment Remediation
Regulatory Compliance
Wetlands Determinations/Delineations/Stream Condition Assessments
Phase I and II Environmental Site Assessments (ESA)
Environmental Impact Assessments
Environmental Compliance Audits
Leaking Petroleum Storage Tanks (LPST)
Human Health and Ecological Risk Assessments
Permitting
SWPP Plans/SPCC Plans/Contingency Plans
Threatened and Endangered Species
ACM/LBP/Mold Surveys
Indoor Air Quality/Exposure Assessments



ENVIRONMENTAL FIELD SERVICES

Injection of Biological/Chemical Treatment Agents
Recovery Well Installation
Single and Multiple Cased Monitoring Well Installation
Soil Gas/Vapor Sampling
Vapor Extraction Wells
Nested and Cluster Well Installation
Sparge Point Installation
Low Clearance, Angle, and Vertical Drilling
Drilling Waste Management
Well Rehabilitation, Maintenance and Development
Undisturbed Sampling
Utility Locating Services Using Electro-Magnetic Ground Penetrating Radar and Vacuum Excavation (aka Air-Knife) & Hydro Excavation



CONSTRUCTION MATERIALS TESTING

- Construction Monitoring
- Material Qualification
- Roadway Materials Qualification
- Shallow Foundation Installation Monitoring
- Deep Foundation Installation Monitoring
- Fireproofing Monitoring and Testing
- Treatability/Stabilization Studies
- Subgrade and Fill Monitoring and Testing
- Soil and Synthetic Liner QA
- Asphalt Monitoring and Testing
- Concrete Monitoring and Testing
- Concrete Mix Design
- Pre-Cast Concrete Monitoring
- Post-Tension Monitoring
- Reinforcing Steel Monitoring
- Mortar and Grout Monitoring and Testing
- Polymer/Epoxy Monitoring and Testing
- Controlled Low Strength Materials (CLSM)
- Masonry and Brick Monitoring and Testing



DEEP FOUNDATIONS TESTING

- Installation Monitoring
- Static Load Testing
- Instrumented Load Test
- Vibration Monitoring
- High-Strain Dynamic Testing Using PDA Equipment
- Low-Strain Dynamic Testing Using PIT Equipment
- Cross-Hole Sonic Logging
- Single-Hole Sonic Logging
- WEAP Analysis
- Drivability Analysis
- CAPWAP Analysis
- Thermal Integrity Profiling





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