Introduction to Our Key Staff

Shou Ting Hu, M.S., P.E.  
President
Mr. Hu is an accomplished geotechnical/civil engineer with 30 years of extensive experience in the fields of geotechnical, civil, structural and environmental engineering. His geotechnical background includes site investigation, In-situ testing and geophysical methods, soil laboratory testing, foundation analyses for buildings/bridges/industrial structures/lift stations, retaining wall design, settlement analysis, building repair and renovation, deep foundation excavation support system design, slope stability analysis for embankments/detention basins/channels, failed slope stabilization, erosion evaluation and control, seepage analysis, pavement design and subgrade stabilization, ground storage tanks, underground utilities, shoring and tunneling, soft soil improvements, groundwater numerical modeling, and project management.

Ronald E. Ortwerth, P.E.  
Senior Vice President -  
Manager of Construction Materials Testing
Mr. Ortwerth has 38 years of experience in Engineering Consulting and Management in Construction Materials Testing and Inspection Services in the Houston Metro Area. Mr. Ortwerth has extensive experience in consultation, testing and inspection of excavation, fill and backfill, soil stabilization, installation of tie-backs and retention systems, waterproofing, reinforcing steel, large mat placements, high strength and normal strength concrete, fabrication and erection of structural steel and curtain wall. Services on numerous major projects in the Houston area include Reliant Stadium and Exposition Center, Enron Center South and the Harris County Criminal Justice Center. He has extensive experience in providing constructability support to engineering reports and in the management of day to day operations.
GEOTECHNICAL PROFESSIONAL SERVICES

- Complete Geotechnical Services for subsurface investigations, drilling and in-situ testing and monitoring of related construction activities.
- Three Geotechnical P.E.s, one E.I.T. and three Laboratory Technicians capable of testing to typical standards.
- A2LA Accredited for competence in Geotechnical Laboratory testing.
- Capable of performing testing for ASTM, TxDOT, AASHTO, and COE.
- Experience includes recommendations for pavements and subgrade stabilization, building/ bridge/ structure foundations, settlement analysis, retaining walls, slope stability analyses and slope stabilization, underground utilities, excavation shoring, tunneling, airports, wharf, seepage analysis and soft soil improvements.

Project Highlights

⇒ George R. Brown Convention Center
⇒ METRO Light Rail University Corridor, East End Corridor, and Fannin South to UH Downtown
⇒ Undergraduate Housing Complex (Cougar Way)-Phase I, University of Houston
⇒ Academic Building and Parking Lots at the University of Houston, Sugar Land Campus
⇒ North Fort Bend Water Authority various water lines
⇒ San Jacinto River Authority Water Transmission Line, Conroe
⇒ Grand Parkway- North of I10 to South of US 290, Houston

CONSTRUCTION MATERIALS TESTING AND INSPECTION SERVICES

- Comprehensive testing and evaluation of materials and construction procedures being used on a project.
- Two Professional Engineers and 4 Project Managers to review and monitor materials testing and inspection on projects.
- A2LA Accredited for competence in Construction Materials Laboratory testing.
- 24 technicians capable of performing testing to ASTM, TxDOT and AASHTO Standards.
- Our experience includes highways, airfields, bridges, port facilities, a wide variety of building projects from tilt-up slab to multistory buildings, power plants, parks and recreation trails and amenities, and typical public works infrastructure construction.

Project Highlights

⇒ Independent Assurance for the Grand Parkway GEC
⇒ Bayport Terminal Complex Phase 1 Wharf, Houston
⇒ METRO Light Rail North, East, Southeast and Downtown
⇒ Corridors for Houston Rapid Transit (HRT)-JV, Houston
⇒ Testing Support Services for TxDOT, Houston District
⇒ Undergraduate Housing Complex (Cougar Way)-Phase I, University of Houston
⇒ North Fort Bend Water Authority (Segments 0, 1A, 1B, 2, 4A and 5), BCMUD No. 2 Connection, Kingsbridge MUD Water Service Lines, North Mission Glen MUD
⇒ Connection, Water Plant Modifications
⇒ IH 610 Northeast, Houston

AEC is one of an elite group of materials testing laboratories in the Houston area. AEC’s laboratory is accredited for technical competence in accordance with ISO17025 in construction materials testing and geotechnical testing by the American Association for Laboratory Accreditation (A2LA) and is one of only a few firms in the Houston area that is also accredited by the AASHTO Accreditation Program (AAP) for testing of construction materials in accordance with AASHTO R18 and is inspected on normal tours by AMRL and CCRL. These qualifications allow AEC to offer a large scope of services to our clients.

Our Certifications

- City of Houston Minority / Disadvantaged Business Enterprise (M/DBE)
- Historically Underutilized Business (HUB) through the State of Texas
- Disadvantaged Business Enterprise (DBE) through the Texas Department of Transportation (TxDOT)
- Certified METRO Small Business Enterprise (SBE)
- Port of Houston Small Business Enterprise (SBE)
- City Business (CB) / Local Business (LB) through the Hire Houston First Program
- City of Houston Special Inspector Certification
- City of Beaumont Minority Business Enterprise

AEC is an independently owned engineering and construction company in Houston, Texas, with a rich history of providing comprehensive, quality services in the greater Houston area. Since 1986, AEC has been a trusted partner to local, state and federal clients, engaging in a wide variety of projects that often involve innovative solutions to complex problems. With a focus on civil engineering, architectural services, construction management, and environmental restoration, AEC offers a comprehensive suite of services that is second to none.

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