Geotechnical and Heavy Civil Engineering Design

Services:

- Geotechnical Investigations
- Geotechnical testing
- Geological and Geophysical Studies
- Shallow and Deep Foundations
- Retaining structures
- Soil–Structure Interaction Modeling
- Deep excavation Support and Shoring systems for soils and rocks
- Ground Improvement and Advanced Foundation Technology
- Groundwater Control and Construction Dewatering systems
- Foundation underpinning
- Earth and Rock Slope Stability Analysis and Stabilization
- Design of Earth and Rockfill Embankments
- Liquefaction Potential Studies and mitigation
- Site Grading studies
- Landfill design
- Dredging and Reclamation studies
- Topographical surveys and GIS Applications

Codes and Standards:

- AASHTO
- ASCE Standards
- ASTM Standards
- British Standards (BS)
- Canadian Design Manual
- Canadian Standards Association (CSA)
- Construction Industry Research and Information Association (CIRIA)
- Egyptian Code of Practice (ECP)
- EUROCODE 7 (EN)
- Federal Highway Administration (FHWA)
- UAE Codes
- USACE Engineering Manuals
- Saudi Building Code (SBC)

Software:

- Allpile
- AutoCAD
- ETABS
- GEO5
- Geo–slope
- GGU–Retain
- gINT
- GRLWEAP
- LiqSVs
- LPILE
- MacStars
- MSEW+
- MUDFLOW
- PLAXIS 2D and 3D
- SAFE
- SAP 2000
- Settle 3D
- Slide 2D
- SP Column
- StoneC
- WALLAP