

❖ GEOTECHNICAL ENGINEERING SERVICES

Triad was originally formed in 1975 as a geotechnical engineering firm, and our expertise in this discipline is superior. Many of Triad's engineers have advanced degrees in geotechnical engineering. The combined education and professional experience of our staff provides our clients with cost-effective and practical solutions for the most difficult soil, rock and groundwater problems. Our clients include industrial and mining companies, governmental agencies, contractors, architects, engineers, developers, owners and commercial organizations. Geotechnical projects have included investigations for hospitals, churches, hotels, schools, shopping centers, communication towers, wind turbines, water and petroleum product storage tanks, coal and mineral processing facilities, landslides, bridges and highways, parks and recreation facilities, river docks, and impoundments of all types. Let Triad's experience and capabilities in geotechnical engineering help bring your project to a successful conclusion.

Our Geotechnical Engineering Services Include:

- **Shallow and Deep Foundation Evaluations and Recommendations**
- **Landslide/Slope Stability Analysis and Remedial Design**
- **Earth and Earth/Rock Dam and Embankment Design**
- **Retaining Wall Evaluation and Design**
- **Mine Subsidence Investigations**
- **Flexible and Rigid Pavement Evaluations and Design**
- **Groundwater and Seepage Analysis and Design**
- **Shored and/or Braced Excavation Evaluations**
- **Foundation Underpinning Recommendations**
- **Forensic Investigations and Expert Witness Testimony**
- **Hydrogeologic Studies**
- **Fracture Trace Analysis**
- **Karst Investigations**
- **Geophysical Investigations**
 - 2-Dimensional Electrical Resistivity Imaging
 - Ground Penetrating Radar (GPR) Testing
- **Laterally Loaded Pile Analysis**
- **Pile Driveability Studies**
- **Seismic Site Classifications**

