



## **COMPANY PROFILE**

Engineering Geology & Geotechnical Solutions

**Understanding the Ground. Building with Confidence.**

## **1. COMPANY OVERVIEW**

Cornerstone Geosolutions is an engineering geology and geotechnical services company providing practical, reliable and technically sound ground investigation solutions for construction, infrastructure, housing and development projects.

Our services are focused on understanding ground conditions and providing clients with the technical information required to make informed decisions regarding foundations, earthworks, construction and overall site development.

The company is led by an Engineering Geologist with a Master's degree in Geology and professional experience in geotechnical investigations, fieldwork, laboratory testing coordination, data interpretation and geotechnical reporting.

## **2. OUR VISION**

To become a trusted and respected engineering geology and geotechnical services provider in South Africa, recognised for technical excellence, reliable service and practical ground engineering solutions.

## **3. OUR MISSION**

To provide high-quality geotechnical and engineering geological services that assist clients in understanding ground conditions, managing geotechnical risks and developing safe, economical and suitable construction solutions.

## **4. OUR SERVICES**

### **GEOTECHNICAL SITE INVESTIGATIONS**

- Desktop geological and geotechnical assessments
- Site reconnaissance and walkovers
- Geotechnical site investigations
- Trial pits / test pitting
- Dynamic Cone Penetrometer (DCP) testing
- Dynamic Probe Super Heavy (DPSH) testing
- Borehole investigations
- Soil and rock sampling
- Engineering geological profiling
- Groundwater observations
- Foundation assessments
- Site classification and founding recommendations

### **NHBRC & HOUSING DEVELOPMENTS**

- NHBRC-related geotechnical investigations
- Residential stand investigations
- Phase 1 and Phase 2 geotechnical investigations
- Foundation condition assessments
- Test pitting
- DCP testing
- Soil sampling

- Laboratory testing coordination
- Geotechnical reporting
- Foundation recommendations

## **FIELD INVESTIGATION & TESTING**

- Test pitting and soil profiling
- DCP testing
- DPSH testing
- Borehole investigations
- Core logging
- Soil and rock sampling
- In-situ testing
- Ground condition assessments
- Foundation investigations

## **LABORATORY TESTING**

- Foundation Indicator testing
- Particle size distribution
- Atterberg Limits
- California Bearing Ratio (CBR)
- Material classification
- Moisture content
- Corrosivity testing
- Other project-specific geotechnical tests

## **GEOTECHNICAL REPORTING**

- Project and site description
- Geological setting
- Investigation methodology
- Field investigation results
- Soil and rock profiles
- Laboratory test results
- Geotechnical interpretation
- Foundation recommendations
- Site classification
- Excavation conditions
- Earthworks considerations
- Drainage and groundwater observations
- Geotechnical risks
- Conclusions and recommendations

## 5. SECTORS WE SERVE

Residential developments • Housing projects • Commercial developments • Industrial developments • Civil infrastructure projects • Roads and transport infrastructure • Property developers • Construction companies • Engineering consultancies • Mining and quarrying projects • Private landowners • Municipal and public-sector projects

## 6. WHY CORNERSTONE GEOSOLUTIONS

**Technical Experience:** Practical experience in engineering geology and geotechnical investigations, supported by academic training and field experience.

**Practical Solutions:** We translate ground investigation data into practical recommendations that assist with project planning and construction.

**Client-Focused Service:** Clear communication from initial site assessment through fieldwork, laboratory testing and reporting.

**Quality & Professionalism:** High standards of fieldwork, documentation and reporting.

**Flexible Project Approach:** Investigation methods and testing requirements are selected according to project objectives, site conditions and client requirements.

## 7. OUR APPROACH

**01 — PROJECT BRIEF:** Establish project requirements, site information and objectives.

**02 — DESKTOP ASSESSMENT:** Review available geological, geographical and project information.

**03 — FIELD INVESTIGATION:** Undertake appropriate investigation methods such as test pits, DCP/DPSH testing, boreholes, sampling and geological profiling.

**04 — LABORATORY TESTING:** Submit representative samples for relevant testing where required.

**05 — DATA INTERPRETATION:** Assess field observations and laboratory results to determine geotechnical characteristics and potential risks.

**06 — REPORTING:** Prepare a technical report with findings, conclusions and recommendations.

## 8. QUALITY & SAFETY

Cornerstone Geosolutions is committed to conducting investigations in a professional and responsible manner, with emphasis on safe fieldwork practices, proper investigation procedures, accurate field records, representative sampling, reliable data collection, appropriate laboratory testing and clear technical reporting.

## 9. COMPANY VALUES

**INTEGRITY:** Honesty, transparency and accountability.

**PROFESSIONALISM:** Professional fieldwork, communication and technical deliverables.

**QUALITY:** Reliable and technically sound services.

**RELIABILITY:** Meeting project timelines and keeping clients informed.

**EXCELLENCE:** Continuous improvement of technical knowledge, services and project delivery.

## **10. COMPANY INFORMATION**

**Company Name:** Cornerstone Geosolutions

**Industry:** Engineering Geology & Geotechnical Services

**Specialisation:** Geotechnical Investigations & Engineering Geological Services

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## **11. OUR COMMITMENT**

At Cornerstone Geosolutions, we believe that every successful structure starts with understanding the ground beneath it.

Our commitment is to provide clients with dependable ground investigation services and practical technical information that supports better engineering and construction decisions.

### **CORNERSTONE GEOSOLUTIONS**

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