CAPABILITY STATEMENT

Civil Geotech Specialist Pty. Ltd.

Trusted engineering partner for safer, faster delivery of transport and civil infrastructure projects.

ABOUT US

CGS is a Queensland-based engineering consultancy providing integrated geotechnical and civil engineering services across transport, local government infrastructure, utilities, energy and development projects. Our expert engineers combine design capability with investigation management, construction-phase services, project management and public-sector delivery knowledge.

With over 50 years of combined experience across Australia and internationally, we support our clients through all phases of project delivery - from investigation and concept design through to detailed analysis, construction support, certification, monitoring, and risk management.



OUR PURPOSE

To reduce uncertainty early, resolve technical interfaces efficiently and deliver engineering outputs that are practical to procure, build, verify and maintain.

TARGETED VALUE FOR CLIENT

FOR COUNCILS

Scope definition and procurement support; roads, pavement and drainage design; geotechnical investigations; slope and asset risk assessment; technical review; construction-ready documentation; stakeholder and utility coordination.

FOR CONTRACTORS

Tender and constructability advice; working platforms and temporary works; foundation and earthworks verification; pile and socket inspections; design queries; monitoring; construction certification; practical remediation advice.

FOR DEVELOPERS

Pre-acquisition and planning due diligence; site classification and ground models; foundation, retaining wall and earthworks advice; landslide risk assessment; civil design coordination; authority response and construction support.

FOR DESIGN PARTNERS

Geotechnical interpretation, multidisciplinary design inputs, peer review, specialist analysis, RPEQ certification and surge capacity for complex packages.

CREDENTIALS REPRESENTED WITHIN THE CGS TEAM

RPEQ, CPEng, NER and Engineers Australia memberships are held by relevant personnel. Certification is provided only within the responsible engineer's demonstrated area of competency.

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INTEGRATED SERVICE CAPABILITY

ROADS AND PAVEMENTS

Urban and rural road geometry, intersection and roundabout upgrades, pavement design and rehabilitation, road safety treatments, signage and line marking.

FOUNDATIONS AND RETAINING STRUCTURES

Shallow and deep foundations, bridge piles, raft and footing systems, soil nail walls, gravity, cantilever, gabion and anchored retaining systems.

DRAINAGE AND STORMWATER

Network investigation, culverts, pits and pipes, outlet and erosion protection, floodway upgrades, rehabilitation planning and construction documentation.

EARTHWORKS AND SOFT GROUND

Material classification, subgrade assessment, settlement analysis, embankments, preloading, surcharge, ground improvement and site-won material reuse.

GEOTECHNICAL INVESTIGATIONS

Desktop review, investigation planning, boreholes, CPT, test pits, logging, field testing, laboratory coordination, factual reporting and interpretive ground models.

SLOPES, LANDSLIDES AND ROCKFALL

Hazard identification, slope stability modelling, risk assessment, remediation optioneering, stabilisation design and construction surveillance.



TEMPORARY WORKS AND WORKING PLATFORMS

Crane pads, piling platforms, excavation support, temporary slopes and retaining systems, staged assessments and verification.

CONSTRUCTION-PHASE SERVICES

Subgrade, earthworks and foundation verification; pile logging; hold and witness point support; RFIs; NCR technical input; surveillance and RPEQ certification.

INSTRUMENTATION AND MONITORING

Inclinometers, settlement plates and performance monitoring, including interpretation against design assumptions and trigger criteria.

INDEPENDENT REVIEW AND FORENSIC ASSESSMENT

Peer review, design verification, failure investigation, subsidence assessment, risk-based remediation and asset prioritisation.

DEVELOPMENT AND APPROVALS SUPPORT

Planning due diligence, site classification, civil reports, authority liaison, technical responses and review of externally prepared designs.

DESIGN AND PROJECT MANAGEMENT

Scope, programme and budget control; multidisciplinary interfaces; consultant and subcontractor management; design assurance and delivery coordination.

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RELEVANT PROJECT EXPERIENCE

The following experience demonstrates the type and scale of work undertaken by personnel currently at CGS.

SOMERSET COUNCIL LANDSLIP RESTORATION, QLD | 2026-PRESENT

Geotechnical assessment, temporary stability advice, construction surveillance, validation and RPEQ certification for flood-recovery landslip works.

CHURCH ROAD, EATONS HILL (2025)

Landslide hazard assessment and earthworks advisory for residential development within Moreton Bay Regional Council's Landslide Hazard Overlay. Delivered AGS-compliant risk analysis and engineering recommendations for safe hillside construction.



TOOWOOMBA SECOND RANGE CROSSING, QLD | 2016-2019

Geotechnical technical leadership and certification for cuttings, embankments, foundations, crane pads, slope treatments, RFIs and NCRs.

TOWNSVILLE CITY COUNCIL TECHNICAL PROGRAMS, QLD | 2022-2024

Civil and geotechnical design for marine access infrastructure, standardised pavement design, sustainable construction materials and internal stakeholder coordination.

COOMERA CONNECTOR STAGE 1 CENTRAL, QLD | 2022-2025

Investigation interpretation, bridges, retaining structures, embankments, cut and fill slopes, ground improvement, soil nail walls, multidisciplinary design management and construction support.

SPS 86 – TANBY ROAD, YEPPOON (2025)

Independent geotechnical review during caisson sinking for sewer pump station construction. Verified subsurface conditions, identified high-strength cobbles impacting excavation, and advised on construction risk mitigation.

IPSWICH CITY COUNCIL CIVIL INFRASTRUCTURE PROGRAM, QLD | 2021-2026

Road corridor and intersection upgrades, bus stop expansion, drainage rehabilitation, culvert replacement, embankment stabilisation, utility coordination and construction-ready documentation.

BRUCE HIGHWAY UPGRADES, QLD | 2020-2021

Working platforms, temporary cut and retention assessments, ground improvement monitoring, pile and socket inspections, design validation and RPEQ certification.

QUEENS WHARF, BRISBANE | 2021-2022

Investigation management, deep excavations, micropiles, anchors, ground improvement, slope stability, settlement and monitoring.

LOCAL ROAD AND BRIDGE PROJECTS, QUEENSLAND COUNCILS | 2014-2026

Bridge pile certification, rural road reconstruction, Black Spot upgrades, floodways, drainage renewal, slope risk and landslide remediation for multiple councils.

TECHNICAL SYSTEMS AND ANALYSIS TOOLS

Capability includes 12d Model, AutoCAD, ArcGIS, PLAXIS 2D/3D, GeoStudio/SLOPE/W, Settle3D, gINT, Geo5, AllPile, LPile, Wallap, GRLWEAP, BHPile and related industry tools. Software selection is matched to the problem, available data and verification requirements.

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CAPABILITY ALIGNED TO PROJECT OUTCOMES

ROADS, BRIDGES AND ACTIVE TRANSPORT

- Corridor and intersection design
- Bridge foundations and pile certification
- Pavements, subgrades and earthworks
- Culverts, floodways and roadside drainage
- Working platforms and temporary slopes

SLOPES, RECOVERY AND ASSET RESILIENCE

- Landslide and rockfall risk assessment
- Emergency and permanent stabilisation
- Flood-recovery geotechnical support
- Monitoring and trigger-action response
- Risk-based remediation prioritisation

URBAN DEVELOPMENT AND UTILITIES

- Site due diligence and classification
- Basements, excavations and retaining walls
- Foundations and settlement assessment
- Sewer, water and stormwater assets
- Authority coordination and technical responses

ENERGY, RAIL AND INDUSTRIAL

- Solar foundation investigation and design
- Rail formation and earthworks support
- Hydrogeological and groundwater advice
- Heavy-duty platforms and foundations
- Materials data and instrumentation management

ENGAGE CGS EARLY TO IMPROVE DELIVERY CONFIDENCE

The greatest opportunity to control geotechnical and civil risk is before scope, design and construction constraints become fixed. CGS can support a defined package or operate as an embedded technical partner across the project lifecycle.

STARTING POINT

Share the project brief, available drawings and reports, the decision or approval required, programme constraints and known site risks. CGS will frame a proportionate scope, deliverables, interfaces and information requirements.

WHY IT MATTERS (AND HOW CGS REDUCES RISK)

ALIGNED WITH AUSTRALIAN STANDARDS, CODES AND GUIDELINES

Designs and advice reference Australian standards, Austroads guides, and TMR specifications ensuring compatibility with state specifications and minimising queries/RFIs.

GOVERNMENT PROJECT PEDIGREE

Our experts have engaged with Tier 1 Nation building projects across SEQ including Coomera Connector Stage 1, Bruce Highway, Toowoomba Second Range Crossing leadership in design teams and construction certification.

DATA DRIVEN SLOPE RISK

Applying TfNSW slope risk analysis v4 and published risk frameworks to prioritise remediation and maintain network resilience.

ISO ALIGNED DELIVERY

Targets include zero non-conformance on site, on time milestones, worker participation in OHS, and environmental stewardship.

CONTACT US

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