



**Name:**

Dr. Dileeka Jasinge

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**Areas of expertise:**

Deep foundation engineering, geotechnical engineering, foundation construction, foundation design and analysis, pile integrity testing, dynamic load testing, cross-hole sonic logging testing, bridge foundations, bored piles, pile sockets, driven piles, site investigation, slope risk analysis and retaining walls,.

**Qualifications:**

- Bachelor of Civil Engineering, 2002, University of Moratuwa, Sri Lanka.
- Doctor of Philosophy in Geomechanics, 2011, Monash University, Australia.
- RMS Full Accreditation on Slope Risk Analysis, 2014, Australia.
- Chartered Institute of Management Accountants (CIMA-Stage III), UK.

**Career Overview:**

Dr. Dileeka Jasinge is a Geotechnical Engineer with Australia's leading specialist consulting firm in design and construction of deep foundations, Foundation Specialists Group (FSG). His areas of expertise lie predominantly in foundations, ground geotechnical investigation, slope risk analysis and high-rise buildings. Dileeka is a disciplined and solutions-focused professional with accomplished skills and experience in supervision of: pile construction (bored piles and driven piles), pile design, pile testing, analysing results, numerical modelling and engineering report writing.

**Key Skills and Expertise:**

Dileeka has wide ranging and proven expertise in the following:

- Bored pile inspection and pile sign off
- Pile Design, Construction & Testing
- Working on-site & in professional offices
- Use of geotechnical field instrumentation
- Conducting complex technical investigations
- Geotechnical analysis, interpreting & design
- Geotechnical engineering report writing
- Engaging with clients & contractors
- Efficient management & organizational abilities
- Problem solving with analytic thinking
- C class drivers licence
- Defensive driving / advanced 4WD techniques



### Employment History:

#### 2013 –current:

##### **Geotechnical Engineer, Foundation Specialists Group, Brisbane**

Responsible for various bored pile inspections, pile testing (PDA, PIT, CSL and PDM), site investigations and geotechnical designs. Also, responsible to manage individual projects to complete.

#### 2012-2013:

##### **Geotechnical Engineer, South Queensland Soils, Chinchilla, Queensland**

Responsible for bored pile inspection, performing field investigations and engineering analysis for the pile foundation system, on-site geotechnical analysis and design of piles when necessary and provide technical recommendations and guidance in unforeseen circumstances.

#### 2011-2012:

##### **Geologist, Moultrie Geology, Brisbane**

Responsible for undertaking a range of on-site responsibilities including, supervision of borehole drilling, core logging, chip logging and use geophysics data to correct boreholes. Analysing geophysical data and historical data to identify coal seams.

#### 2008-2011:

##### **Geotechnical Engineer, Browns Piling, Melbourne**

Responsible for the preparation of pile foundation and pile retention system design computation packages, preparation of AutoCAD drawings and computer modelling using design packages such as Piglet and Ratz, reviewing and interpreting soil investigation reports and providing professional advice to onsite personnel and undertaking pile testing (PIT), analysing and simulating captured test results and preparing test reports.

#### 2003-2006:

##### **Civil Engineer, Central Engineering Consultancy Bureau (Sri Lanka)**

Responsible for developing and controlling long and short term plans for the civil engineering programs and directing their implementation to ensure the achievement of department and company goals, performing bored pile inspection, engineering analyses, construction monitoring and designing a shoring system for the excavation for basement construction, inspection of percussion and rotary boring, inspection of concreting of piles (265 piles), all pile tests, issuing instructions and guiding subcontractors and coordinating activities with the project office. Also coordinating, managing and developing civil engineering activities, which included meetings, field inspection schedules, monitoring and liaison with related clients and departments.

### Selected Major Projects:

#### **Foundation Specialists Group Pty Ltd, 2013 to Current:**

##### **Killymoon Creek Bridge, QLD**

Geotechnical Engineer. Responsible for bored pile inspection and socket logging and facilitate pile sign off process. Responsible for pile integrity testing of bored piles and submit test reports.

##### **Mudgeeraba Creek Bridge, QLD**

Geotechnical Engineer. Responsible for bored pile inspection, socket logging and anchor installation inspection and facilitate pile sign off process.

##### **Lewisham Street Bridge, QLD**

Geotechnical Engineer. Responsible for bored pile inspection and socket logging and facilitate pile sign off process.

##### **Pacific Highway Upgrade (OH2KU), NSW**

Geotechnical Engineer. Responsible for carrying out cross-hole sonic logging testing and pile integrity testing on several bridge piles, analyse test data and submit test reports.



**Pacific Highway Exit 54 - Coomera Interchange Upgrade, QLD**

Geotechnical Engineer. Undertake and report on site investigation for a bridge and a retaining wall. Responsible for bored pile inspection and socket logging and facilitate pile sign off process. Responsible for pile integrity testing of bored piles and submit test reports.

**Wiggins Island Rail Project (WIRP), QLD**

Geotechnical Engineer. Responsible for bored pile inspection and socket logging and facilitate pile sign off process. Responsible for pile integrity testing of bored piles and submit test reports.

**Pacific Highway Upgrade (N2U), NSW**

Geotechnical Engineer. Responsible for carrying out pile integrity testing on a pile with defective concrete to investigate and correlate the defects observed in core samples and cross-hole sonic logging test results. Responsible for carrying out pile integrity testing on several piles to confirm the pile length.

**Yeppen Floodplain Upgrade, QLD**

Geotechnical Engineer. The 2.8km long Bruce Highway crossing of the Yeppen Floodplain, south of Yeppen roundabout. 500mm octagonal prestressed driven piles for two bridges. Responsible for conducting PDA testing (full drive monitoring and two piles per each pier) and PDM testing (all piles). Ensure PDM reports are submitted to the client soon after finished driving the pile. In cases where piles don't reach the required load capacity, provide technical guidance on resolving the issues on client's request.

**Guanaba Creek Bridge, QLD**

Geotechnical Engineer. Responsible for bored pile inspection and socket logging and facilitate pile sign off process. Responsible for pile integrity testing of bored piles and submit test reports.

**Moreton Bay Rail, QLD**

Geotechnical Engineer. Responsible for carrying out pile integrity testing on several railway bridge piles and railway station piles and submit test reports.

**Lockyer Creek Bridge, QLD**

Geotechnical Engineer. Responsible for bored pile inspection and socket logging and facilitate pile sign off process. Responsible for pile integrity testing of bored piles and submit test reports.

**Fraser Coast Council Bridges, QLD**

Geotechnical Engineer. An investigation of unknown lengths of timber bridge piles and there integrity using Pile Integrity Test. Pile integrity testing of timber piles of eleven bridges was carried out. A different technique was used to test these piles as pile top was not accessible for most of the piles. Piles were tested with a side mount bracket and the accelerometer was attached to the side of the pile below the side mount bracket. Pile integrity test reports including an assessment of pile integrity and an approximate length was sent to client.

**NCIG Flyover, NSW**

Geotechnical Engineer. Pile integrity testing of CSCs (Controlled Stiffness Columns). CSCs were 350mm diameter (reinforced and non-reinforced). Train KGE site personal on how to use the PIT testing gear. Analysis the data and report the integrity of tested piles (CSCs).

**New Farm Riverwalk, QLD**

Geotechnical Engineer. Replace the New Farm Riverwalk damaged that was damaged in the January 2011 floods. Piles were cast with a permanent steel liner and pile diameters were 900mm, 1200mm and 1500mm, pile length vary from 20m to 35m. Responsible to carry out Pile integrity testing of bored piles and submit test reports.

**Bauhinia Electrification Project, QLD**

Geotechnical Engineer. Electrification of the existing 107km Bauhinia rail spur, from Rangal South to Rolleston Mine, to harness the operations and cost benefits of electric trains. Responsible for carry out pile integrity testing on several piles along a section of the railway line and submit a test report.



### **Lockyer Creek Bridge, QLD**

Geotechnical Engineer. Replacement of the existing eastbound bridge at Helidon over Lockyer Creek. Bored pile diameter was 1500mm and depth varies from 7m to 11m. Responsible for bored pile site inspection and socket logging and facilitate pile sign off process.

### **South Queensland Soils Pty Ltd, 2012-2013:**

#### **LNG Gas Processing Facilities; Laing O'Rourke, QLD**

Geotechnical Engineer. Responsible for bored pile inspection, ensure bored piles have required load capacity, on-site geotechnical analysis when necessary and slope stability assessment.

### **Browns Piling, Melbourne, 2008-2011:**

#### **Various residential projects, VIC**

Involved with several residential piling projects during the design and construction process. Responsible for the preparation of pile foundation/retention system design, pile schedules, AUTOCAD drawings, Pile integrity testing and reporting.

### **Academic Awards:**

#### **2011:**

Monash University, Civil Engineering Department: Best PhD Thesis

#### **2007-2010:**

Postgraduate Departmental Scholarship, Monash University, Australia

### **Publications:**

D. Jasinge (2011), An investigation of the effect of carbon dioxide sequestration on the behaviour of brown coal, PhD Thesis.

### **Technical papers:**

- 1) Jasinge, D., Ranjith, P.G., Choi, S.K. and Kodikara, J. (2007). A comparison of stress strain behaviour of reconstituted and natural black coal. 11th International Society for Rock Mechanics (ISRM) Congress, Lisbon, Portugal, July 9 – 13, 2007.
- 2) Jasinge, D., Ranjith, P.G., Choi, S.K., Kodikara, J., Arthur, M. and Li, H. (2009). Mechanical properties of Australian reconstituted black coal. Journal of Geotechnical and Geoenvironmental Engineering, ASCE, vol 135(7) – pp 980-985.
- 3) Ranjith, P.G., Jasinge, D., Choi, S.K., Mehic, M. and Shannon, B. (2010). The effect of CO<sub>2</sub> saturation on mechanical properties of Australian black coal using acoustic emission. Fuel. vol 89 (8) – pp 2110-2117.
- 4) Jasinge, D., Ranjith, P.G. and Choi, S.K. (2011). Effects of Effective Stress Changes on Permeability of Latrobe Valley Brown Coal, Fuel, Volume 90(3) – pp 1292-1300.
- 5) Jasinge, D., Ranjith, P.G. and Choi, S.K. (2011). Development of a Reconstituted Brown Coal material Using Cement as a binder, Journal of Environmental Earth Sciences, 64(3) – pp 631-641.
- 6) Jasinge, D., Ranjith, P.G. and Choi, S.K. (2012). Investigation of the Influence of Coal Swelling on Permeability Characteristics via Natural Brown Coal and Reconstituted Brown Coal Specimens, Energy, 39(1) – pp 303-309.
- 7) Ranjith, P.G., Jasinge, D. and Choi, S.K. (2007). A study of the effect of displacement rate and moisture content on the mechanical properties of concrete: Use of acoustic emission. Mechanics of Materials, vol 40(6) – pp 453-469.
- 8) Quy, N.M., Ranjith, P.G., Choi, S.K., Giao, P.H. and Jasinge, D. (2009). Analytical Assessment of Horizontal Well Efficiency with Reference to Improved Oil Recovery of the South-East Dragon Oil Field Southern Offshore of Vietnam. Journal of Petroleum Science & Engineering. vol 66(3-4) – 7582.
- 9) Ranjith, P.G. and Jasinge, D. (2007). Soft ground tunnelling and associated settlements. Proceedings of the Sri Lankan Geotechnical Society's First International Conference on Soil & Rock Engineering, Colombo, Sri Lanka, August 5-11.

### **Referees:**

Upon request