

# ***CURRICULUM VITAE***

---

**PATRICK CLANCY**  
**Senior Principal Engineer**

- DATE OF BIRTH** 1<sup>st</sup> October 1966
- NATIONALITY** Australian
- ACADEMIC BACKGROUND:** PhD (Geomechanics), University of Western Australia (1994)  
MSc (Geomechanics), Victoria University of Manchester (1990)  
BSc (Civil Engineering), Victoria University of Manchester (1988)
- COUNTRIES WORKED IN:** Australia, Singapore, Malaysia, Brunei
- EXPERTISE:** Geotechnical Engineering, Numerical Analysis
- MAJOR PROJECT EXPERIENCE (OFFSHORE):**
- Due diligence review of gravity base platform foundation, Yolla Field, Bass Strait
  - Geotechnical analysis of well conductors, Kuda Tasi & Jahal Fields
  - Geotechnical analysis of well conductors, Thylacine & Geographe Fields, Otway Development
  - Geotechnical analysis of well conductors, Laminaria Phase II
  - Preliminary foundation engineering for the Enfield Project including suction caisson design
  - Preliminary foundation engineering for the Sunrise Gas Project including suction caisson design
  - Pipeline geotechnical design, Tangguh Gas Project, Irian Jaya
  - Stability and settlement calculations for clump weight attached to sea-bed manifold at Lambert-Hermes Field
  - Detailed foundation design of seabed structures, Trunkline System Expansion Project
  - Detailed foundation design of mudmat foundation for subsea isolation valve, Nam Con Son Gas Project, Vietnam
  - Foundation design for mid-depth buoy gravity base, Bayu-Undan
  - Foundation design for mid-water arch gravity base, Belanak Field, Natuna Sea
  - Spud-can penetration study for Legendre project
- MAJOR PROJECT EXPERIENCE (NEAR SHORE):**
- Design of rip-rap shore protection works for MEGA LPG project, Argentina
  - Re-assessment of soil profiles for construction of Liquid Chemical Handling Jetty at Dahej, India
  - Pipeline shore approach geotechnical analysis, Tangguh Gas Project, Irian Jaya
  - Fabrication yard quay wall stability analysis for jacket loadout, Bayu-Undan
- MAJOR PROJECT**
- Assessment of tailings slope stability within thickener tanks, Murrin

**EXPERIENCE  
(ONSHORE):**

- Murrin nickel mine
- Development of cost estimate for tailings disposal options at Murrin Murrin nickel mine
  - Risk analysis of tailings dam at Argyle diamond mine
  - Mass balance, consolidation modelling and seepage modelling of tailings at Beenup titanium mine
  - Analysis of bearing capacity and settlement characteristics of ore stockpile on marine clay with stone column reinforcement at Pasmaico Century project, Queensland
  - Assessment of seismic liquefaction potential of a sand deposit for WAPET Gorgon onshore facility
  - Assessment of safe bearing capacity of rock fill for propane tank pad preparation at Woodside Liquids project
  - Prediction of pile group settlements for pipe rack at Singapore Gasification Hub
  - Provision of geotechnical consultancy services for winning tender submission, Narrows Bridge Duplication project
  - Analysis of diaphragm retaining wall for road cutting on Eastern Distributor Project, Sydney
  - Supervision of design of two-basement diaphragm retaining wall for 29-storey Singapore Exchange Centre, Singapore
  - Design of foundation bored piles and three-basement diaphragm retaining wall for Jurong Town Corporation Headquarters Building, Singapore
  - Supervision of design of foundation bored piles for Residential Development at Grange Road, Singapore
  - Supervision of design of foundation bored piles for Commercial / Residential Development at Robertson Quay, Singapore
  - Design of foundation bored piles for SATS Airfreight Terminal 6 at Changi Airport, Singapore
  - Design of foundation bored piles for Package E2 Four Secondary Schools, Singapore
  - Design of foundation bored piles for Package E1 Four Secondary Schools, Singapore
  - Design of foundation bored piles for 3-storey Factory at Woodlands Avenue 7, Singapore
  - Supervision of design of foundation bored piles and five-basement diaphragm retaining wall for Ministry of Home Affairs Building at Novena, Singapore
  - Supervision of design of foundation bored piles for Overhead Bridge Crane Structure at the New Container Terminal, Pasir Panjang, Singapore
  - Design of foundation bored piles for the Tuas Immigration Checkpoint at Jalan Ahmad Ibrahim, Singapore
  - Supervision of design of foundation bored piles for ten-storey Glendale Park Condominium Development at Hillview Avenue, Singapore

- Supervision of design of foundation bored piles and two-basement diaphragm retaining wall for 21-storey Apartment Block at Draycott Drive, Singapore
- Supervision of design of foundation bored piles for Dover Rise Condominium Development at Dover Crescent, Singapore
- Supervision of design of foundation bored piles and two-basement diaphragm retaining wall for Haw Par Centre Redevelopment, Singapore
- Supervision of design of foundation bored piles and single-basement contiguous bored pile retaining wall for Lian Shan Shuang Lin Monastery, Singapore
- Supervision of design of foundation bored piles and two-basement contiguous bored pile retaining wall for Causeway Point Commercial Development, Singapore
- Supervision of design of foundation bored piles for ten-storey Montrosa Condominium Development at Hillview Avenue, Singapore
- Supervision of design of foundation bored piles for Commercial and Residential Development at Balestier Road, Singapore
- Supervision of design of foundation bored piles for eight-storey Industrial Development at International Business Park, Singapore
- Supervision of design of foundation bored piles for Outram Secondary School, Singapore
- Supervision of design of foundation bored piles for four-storey Condominium Development at Changi Road East, Singapore
- Supervision of design of foundation bored piles for Merawoods Condominium Development at Hillview Avenue, Singapore
- Design of foundation bored piles and two-basement diaphragm retaining wall for Hotel Rendezvous at Bras Basah Road, Singapore
- Supervision of design of foundation bored piles for 18-storey Hock Lee Centre at Jalan Tun Abdul Razak, Kuching, Malaysia
- Design of foundation bored piles for 18-storey Office Development at Philip Street, Singapore
- Supervision of design of foundation bored piles for ten-storey Merawood Condominium at Hillview Avenue, Singapore
- Design of foundation bored piles for Cement Plant at Pulau Damar Laut, Singapore

**EMPLOYMENT  
HISTORY:**

**Advanced Geomechanics, Perth**  
2003 – Present: Principal Engineer  
2000 – 2003: Senior Engineer

**University of Western Australia, Perth**  
2000: Casual Lecturer

**GHD, Perth**  
1999 – 2000: Senior Professional

**Dames & Moore, Perth**

1998 – 1999: Project Geotechnical Engineer

**BBR Geotechnic (S) Pte Ltd, Singapore**

1997 – 1998: Senior Engineer

**L&M Foundation Specialist Pte Ltd, Singapore**

1997: Assistant Design Manager

1996: Senior Executive Engineer

1995: Executive Engineer

1994: Engineer

**AWARDS:**

Geomechanics Studentship (1992 – 1993)

Overseas Postgraduate Research Studentship (1990 – 1993)

Postgraduate Research Scholarship (1988 – 1990)

A H Gibson Prize (1987)

Concrete Society Award (1987)

Gilbert Cook Bequest (1986)

Ashbury Scholarship (1986)

**PUBLICATIONS:**

Clancy P (1993): ‘Numerical Analysis of Piled Raft Foundations’, PhD Thesis, University of Western Australia

Clancy P (1990): ‘Computer Analysis of Pile Groups’, MSc Thesis, Victoria University of Manchester

Clancy P & Randolph MF (1996): ‘Simple Design Tools for Piled Raft Foundations’, *Geotechnique*, Vol. 46 No. 2 pp 313-328

Randolph MF & Clancy P (1994): ‘Design and Performance of a Piled Raft Foundation’, ASCE Geotechnical Engineering Division Specialty Conference, Texas

Clancy P & Randolph MF (1993): ‘An Approximate Analysis Procedure for Piled Raft Foundations’, *International Journal for Numerical & Analytical Methods in Geomechanics*, Vol. 17 pp 849-869

Randolph MF & Clancy P (1993): ‘Efficient Design of Piled Rafts’, 2<sup>nd</sup> International Geotechnical Seminar on Bored and Auger Piles, Belgium, pp 119-130

Griffiths DV, Clancy P & Randolph MF (1991): ‘Piled Raft Analysis by Finite Elements’, 7<sup>th</sup> International Conference on Computer Methods & Advances in Geomechanics, Queensland, Vol. 2 pp 1153-1157

Clancy P & Griffiths DV (1990): ‘Finite Element Analysis of Pile Group Interactions’, 2<sup>nd</sup> European Specialty Conference on Numerical Methods in Geotechnical Engineering, Spain, pp 381-397

Clancy P & Griffiths DV (1990): 'A Spurious Zero-Energy Mode in the Numerical Analysis of Piled Raft Foundations', *Computers & Geotechnics*, Vol. 11 No. 2 pp 159-170