

# *CURRICULUM VITAE*

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**HACKMET A JOER**

**DATE OF BIRTH:** 16 November 1959

**NATIONALITY:** Australian, Lebanese

**ACADEMIC BACKGROUND:** PhD, The University Joseph Fourier, Grenoble (UJF), France (1991)  
DEA, Institut National Polytechnique de Grenoble (INPG), France (1987)  
Maîtrise de Mécanique, Université Scientifique Technologique et Médicale de Grenoble (U.S.T.M.G.) (France)

**PROFESSIONAL AFFILIATIONS:** Chartered Professional Engineer  
Member, Institution of Engineers, Australia  
Member, College of Civil Engineers, Australia  
Member, Australian Geomechanics Society  
Member, Technical Committee for Micro-Geo-Mechanics (TC35)

**COUNTRIES WORKED IN:** Australia, France, India, South Africa, Indonesia

**EXPERTISE:** Calcareous Sediments, Offshore Geomechanics, Geotechnical Engineering, Research, Teaching

**GENERAL:**

Graduate of the University Joseph Fourier, Grenoble (France) with over ten years experience in Western Australia. Previously Senior Lecturer and Industry Projects Manager for the Centre for Offshore Foundation Systems at the University of Western Australia, where he was responsible for managing eight engineers and technicians and organising and supervising all industry projects. Specialities are in pile foundations, specially grouted techniques for driven piles and soil characterisation study. Particular expertise lies in the behaviour of calcareous sediments, new developments for foundation systems, grouted driven piles and determination of insitu shear strength using newly developed penetrometer devices. Experienced in the use of advanced numerical analysis software including finite element analysis programs such as FLAC and AFENA as well as offshore analysis software such as RATZ, LPILE, SPLICE, etc.

**MAJOR PROJECT EXPERIENCE:**

Industry projects:

- Client Representative of onshore geotechnical site investigation for Otway Gas Development, Victoria, Australia on behalf of Woodside.

- Client Representative of offshore geotechnical site investigation for APN Gas Development, West Java Sea, Indonesia on behalf of BP West Java Ltd.
- Client Representative of offshore geotechnical site investigation for Yolla Site Investigation, Bass Strait, Australia on behalf of Origin.
- Client Representative of offshore geotechnical site investigation for Angel field development, North West Shelf, Australia on behalf of Woodside.
- Client Representative of offshore geotechnical site investigation for Woollybutt field development, North West Shelf, Australia on behalf of AGIP.
- Client Representative of offshore geotechnical site investigation during trial of a novel site investigation tool (PROD), North West Shelf, Australia on behalf of Woodside.
- Client Representative of offshore geophysical and geotechnical site investigation for Sable field development, South Africa on behalf of Soekor.
- Re-evaluation of the capacity of the belled piles used for the foundation for the North Rankin “A” platform.
- Organisation and supervision of model test programme for assessing the causes of damage and remedial action for the Goodwyn “A” primary piles.
- Organisation and supervision of extensive laboratory test programmes for various fields in Australia and overseas such as Bayu-Undan, Laminaria, Gorgon, Legendre, Wandoo, East Spar, Gulf of St Vincent and Malampaya.
- Supervising and interpretation of pipeline geotechnical survey for Bayu Undan project on behalf of Racal.
- Revaluation of the geotechnical design approach for well conductors on behalf of Woodside.
- Analyses of drilled and grouted pile capacity and anchor pile behaviour during preliminary engineering for Gorgon.
- Organisation and supervision of centrifuge testing for validating the foundation for the Escravos Gas to Liquid plant in Nigeria.
- Responsible for design, fabrication and installation of model testing equipment for deep water foundation systems such as suction caissons, anchors or bucket foundations on behalf of ONGC, India.

Research:

A variety of research projects have been undertaken including:

- Rotation of principal stress and strain axes in granular materials
- Behaviour of uncemented and artificially cemented calcareous soils
- Crack propagation in rocks

- Crushability of calcareous soil
- Behaviour of grouted driven piles in calcareous soil
- Experimental modelling of damage to piles
- Experimental modelling of belled piles
- Experimental modelling for validating foundation design

Design of laboratory equipment:

A variety of laboratory equipment has been developed including:

- New plane strain shear apparatus
- New triaxial high-pressure cell
- Calibration chamber
- 2-D calibration chamber
- Miniature cone penetrometer
- Cone penetrometer for use in the triaxial cell
- X-ray device for sample inspection
- Model testing for deep water foundation systems

**EMPLOYMENT  
HISTORY:**

Advanced Geomechanics  
Principal Engineer 2001 – present  
Part time contract engineer 1997

The University of Western Australia  
Senior Lecturer & Industry Projects Manager 2000 - 2001  
Senior Research Fellow & Industry Projects Manager 1999 - 2000  
Research Fellow & Industry Projects Manager 1998 - 1999  
Research Fellow 1996 - 1998  
Senior Research Associate 1993 - 1996  
Research Associate 1991 - 1993

Université Joseph Fourier (U.J.F.), Grenoble, France.  
"Attaché Temporaire d'Enseignement et de Recherche (ATER)" 1990 - 1991  
PhD research student 1987 - 1991

**LANGUAGE  
PROFICIENCY:**

English, French, Arabic, Senegalese

**PUBLICATIONS:**

8 Journal publications  
31 Conference papers  
47 Consulting reports