

CAREER PROFILE

Pro-active & energetic honours graduate seeking a position within the Environmental Science / Engineering sector in areas of contaminated site investigation & remediation, risk assessment & water quality management. Utilising scientific research, expertise in petroleum hydrocarbon remediation & over 3 years' experience managing multiple projects for a client-based marketing organisation. Solid communication skills & project management capabilities contribute towards project outcomes & enhance company productivity.

EDUCATION

- 2015 **University of Technology, Sydney**
- **Masters of Environmental Engineering & Management**
- Subjects completed: - Engineered Natural Water Treatment Systems –Distinction
- Contaminated Site & Waste Remediation –High Distinction
- GPA: 3.75 / 4.0
- 2013 **Australian Catholic University, North Sydney**
- **Bachelor of Environmental Science (Honours)**
- Honours Thesis: Bioremediation of BTEX & ammonium in landfill leachate using a sequential degradation process through microcosm studies at Sydney Olympic Park, Homebush Bay NSW
- 2012 **The University of Sydney, Australia**
- **Bachelor of Science (Molecular Biotechnology)**
- Major areas of study: Chemistry, Molecular Biology & Microbiology

EMPLOYMENT

James Cook University, North Sydney

March 2014 – Present

Sessional Academic/ Research Assistant – Environmental Science

The job entailed working jointly with the Sydney Olympic Park Authority in developing a feasibility study (bench scale trial) for the remediation of hazardous leachates. The role also involved the preparation & implementation of laboratory sessions & tutorials for third year environmental science students in water & waste management units.

- Produced & implemented the experimental design, sampling plan & parameter monitoring schedule for preliminary & optimisation phases of the bench scale trial for the bioremediation of leachates
- Prepared project proposals, manuscripts, progress reports & application for research grants
- Conducted several sampling events for soil & water including parametric measurements in-situ
- Performed experiments, data analysis & maintained records of results & outputs regularly
- Maintained & calibrated laboratory equipment & performed laboratory material inventories & ordering
- Designed & produced appropriate written material to support the delivery of laboratory sessions
- Instructed laboratory technical officers regarding the proper delivery & setup of equipment, reagents & materials for the successful delivery of all laboratory sessions, tutorials & field trips
- Participated in formal & informal consultation with students with accurate & timely responses
- Performed administrative tasks in line with university guidelines & HSE regulations

Achievements:

- Awarded the ACU Faculty of Arts & Sciences Research Grant for the genetic characterisation of microbial communities capable of degrading BTEX & inorganic nitrogenous wastes in leachates produced by remediated landfills within the Sydney Olympic Park precinct.

National Project Coordinator – Jan 2013 – Dec 2013
NSW/QLD Project Coordinator – Aug 2012 – Jan 2013
NSW Sales Executive – Nov 2011 – Aug 2012

This position entailed the coordination & management of all operational requirements in national marketing projects across various blue-chip clients in the communication services industry to increase product branding, knowledge & sales in telecommunication stores & mass merchants.

- Developed, maintained & strengthen relationships with key stakeholders
- Supervised, trained & delegated responsibilities to project team
- Conducted training sessions for new team members in basic induction, reporting systems & HSE guidelines
- Coordinated & managed field team to drive state KPI's (sales targets & software activations)
- Maintained program focuses, team rosters, development & motivations
- Collated, analysed & prepared weekly sales & consumer trends reports
- Represented a range of clients including Optus, Nokia, Sony, MobileMuster, Boost & Virgin Mobile

Achievements:

- Received "The employee of the month award" for going over and above my call of duty & providing technical assistance to Optus customers experiencing client services difficulties.
- By analysing store sales trend reports & identifying top performing stores nationally, I proposed a re-organisation of store scheduled visits by promotional staff, which resulted in a 30% increase in sales nationally for the Nokia N-series campaign.

Company LtdJanuary 2010 – October 2011

Shift Process Operator

The job required an overall understanding of the chloride hydrometallurgy process, utilizing process control software to monitor & record process data, including representative sampling for visual & chemical analysis such as microscopy & atomic absorption spectrometry.

- Performed sampling techniques & sample processing for liquor & solid chemical analyses
- Conducted laboratory analytical techniques in wet chemistry & gravimetric analysis
- Managed chemicals inventory in the laboratory, updating material safety data sheets & maintaining good laboratory practise
- Developed hazard operations studies to identify risks & implement measures using the standard hierarchy of controls to mitigate hazardous events
- Trouble shooting problematic plant equipment & instrumentation errors
- Analysed trends & identified anomalies in plant operational data for the preparation of shift report summaries

PROFESSIONAL MEMBERSHIP

- 2015 – Student Member of Engineers Australia
- 2013 – 2014 Student Member of the Australian Water Association

SKILLS

Analytical Chemistry:

- Extensive Chromatographic experience with GC/MS & HPLC analysis
- Preparation of various solutions, dilutions & sample preparation
- Experience in Spectrophotometry & mass spectrometry techniques

Hydrogeology:

- Expertise with open channel flow hydraulics calculations in sizing method for treatment wetlands, ponds & irrigation systems for effluent treatment
- Analysing basic site stratigraphy & developing CSM from a risk assessment perspective
- Experience in contaminant plume contouring, contaminant fate & transport processes & the behaviour of NAPLs in the subsurface.
- Proficiency in contaminant partitioning calculations for quantifying contaminant mass in the subsurface, including knowledge of soil properties & classification.

Microbiology:

- Growth in culture & isolation of bacteria from the environment
- Staining & microscopic techniques, bacterial strain identification
- Expertise with microbes of environmental & clinical importance

Molecular Biology:

- Extraction & purification of DNA & RNA from environmental samples
- Extensive PCR work, including RT-PCR, qPCR & electrophoresis
- Phylogenetic analysis, bioinformatics & evolutionary theory

Ecology:

- Site assessment & sample collection from various environmental matrices
- Studies on ecosystem interactions of terrestrial, aquatic & marine systems

Environmental Policy:

- Knowledge of NSW environmental legislation & regulatory framework
- Understanding on the Contaminated Land Management Act 1997 & the POEO Act 1997
- Understanding on EMS & the international standard ISO14001

Software:

- Proficient in the use of Microsoft programs, including MS Project & MS Access
- Monitored Natural Attenuation modelling software BIOSCREEN & Visual Solute Transport VTS

INTERESTS

- Enjoy travelling, road trips, bushwalking, tennis, coffee, meeting new people & exploring new cultures

REFEREES

Available on Request