

# Alistair Marshall

MEng CEng MIChemE

## Process & Control Engineer

### Areas of Expertise

Oil and Gas  
Risk assessments  
Continuous operations  
Procedure writing  
Advanced Process Control  
Process safety  
Food production  
Food safety  
Advanced IT skills

### Professional

Chartered Engineer  
Member IChemE  
NEBOSH National General Certificate  
IChemE Applied HAZOP  
IChemE Practical Distillation Technology  
Foundation Certificate in Food Safety

### Contact

M: 07910 243 812  
E: cv@thatscottishengineer.co.uk  
W: www.thatscottishengineer.co.uk

### Personal Summary

As a highly-motivated chartered chemical engineer currently working in the oil and gas industry, I enjoy learning and quickly grasp new processes and systems. I am flexible and can respond to unexpected and changing situations that regularly arise in my different roles.

I have led in roles requiring economic optimisation, safety considerations and direct line management.

### Recent Employment

#### Process Control Engineer

Petroineos Manufacturing Scotland Ltd.  
May 2015- Present

I work in the Automation and Modelling Team at Grangemouth refinery to make updates to the Distributed Control System (DCS), improving the controllability of the plant including Loop Tuning, Alarm Management, Graphics, and Advanced Process Control.

#### Area Specialist (Operations Engineer)

Petroineos Manufacturing Scotland Ltd.  
November 2011- May 2015

I ensured the safe and efficient operation of my designated process units at Grangemouth refinery, the catalytic reformer and cryogenic units. I also provided leadership, direction and guidance to the shift operating teams through provision of operational engineering support.

#### Graduate Operations Trainee (Operations)

British Su'gar PLC  
September 2009-October 2011

This was a factory-based position, working on shift to gain hands-on experience while learning the full production lifecycle.

In my second year, I took on the role of *Acting Shift Team Leader*. I was responsible for the safe operation of the factory during my shift whilst continuing to achieve the best economic performance of the plant, balancing the factors that affect the profitability of the plant (throughput, extraction and energy usage). During my time as *Acting Shift Team Leader*, I was also the direct line manager for the members of my shift.

## Academic & Professional Qualifications

University of Edinburgh 2004-2009

MEng Chemical Engineering (1<sup>st</sup> Class Honours)

Salters Graduate Prize 2009

Institution of Chemical Engineers

Chartered Engineer (CEng)

Member of the Institution of Chemical Engineers (MIChemE)

## Previous Employment

Summer Vacation Student

ExxonMobil Chemicals Ltd.

June-August 2008

This eight week course was based in the butyl polymers unit of the Fawley refinery, near Southampton. My project was to determine the suitability of an ultrasonic flow meter for use in a process line and present my findings to the rest of the butyl polymers process support group. With attention to safe working practices, this project involved daily site visits using the work permit system. This placement also gave me the chance to familiarise myself with the other units on the refinery and develop a greater understanding of the industry.

## Software Projects

Final Year Research Project: Impress

My final year research project was to build a web application that aids the chemical engineering design process.

Fourth Year Project: Generating Ternary LLE Data

This program is a ternary phase diagram generator to aid the development of Liquid-Liquid extraction processes. The graphs are generated using the mutual solubilities of the components and applying the two- parameter Margules equation.

## Personal Interests

In my spare time, I enjoy endurance running, coding and technical theatre.