

Rachel H Broome graduated from the School of Manufacturing and Mechanical Engineering with upper second class degree (2.1) with diploma in Industrial studies in 2002.

Senior Mechanical Engineer at Mott MacDonald, Cambridge



Engineer Rachel Broome next to a large diameter valve during a factory acceptance test in the USA for the Disi –Mudawarra to Amman water conveyance project in Jordan.

Since graduating in 2002 I have worked in the field of Engineering Consultancy with a focus on Water and Wastewater Infrastructure. I have worked on major projects in the UK, Libya, United Arab Emirates, Jordan and Qatar, which have involved further project team meetings, factory tour and testing visits in Japan, South Korea, Germany and the USA.

I acted as the lead mechanical design engineer on one of the largest deep shaft pumping stations in the world; the STEP Pumping Station in Abu Dhabi UAE. This is a 100m deep, 50m diameter shaft pumping over 30tonnes of wastewater per second into nearby wastewater treatment works.

I have acted as the lead mechanical assurance engineer for a raw water extraction and conveyance project in Jordan, this involved reviewing the design, produced by others, of an aquifer water extraction system comprising 55 borehole pumps, plus two large pumping stations, and three flow control stations required to convey the extracted water 325km to the capital Amman.