

Curriculum Vitae

Name: Sean Moran
D.O.B: 27/06/62
Designation: Director
Qualifications: B.Sc., D.U.C., M.Sc., C.Eng, M.I.Chem.E.

Work Experience

1999-Date **Expertise Limited** www.expertise-limited.co.uk
Director-Carried Out Freelance work for:
Weir Pumps- Bid Management, Process Design and Production, AMP3 Bid to Yorkshire Water.
Entec- Principal Process Engineer, Design of Effluent Treatment and Boiler Feed Water Plant.
Lurgi Invent- I led the hydraulic design of extensive new water features for Alnwick Castle.
Geo Delft Environmental. I was responsible for Site Management, Commissioning and Troubleshooting of two Groundwater treatment plants. I was also responsible for commissioning, operating and analysing the performance of a number of additional pilot plants testing alternative process options. I have completed plant commissioning and staff training for an cyanide containing industrial effluent treatment plant. I have carried out hydraulic design of a drainage diversion scheme, installed and commissioned oil water separators to remedy a contaminated groundwater problem at a railway location. I was responsible for design and commissioning of substantial upgrades of the groundwater treatment plants previously commissioned. I provide day-to-day technical support and occasional problem troubleshooting for three groundwater treatment plants.
MEL- I designed an in-situ regenerable GAC system for removal of chlorinated solvents from groundwater. I also designed a number of unit processes, including API 421 Oil Water Separators, Sand Filters and GAC Filters for MEL.
Transcore- I carried out the design of modifications to a packaged sewage treatment plant and associated sludge treatment by digestion and drying.
Euromatech-I delivered a 5-day course on Plant Commissioning in Dubai.
IIR- I gave a 3-day course on Sewage Treatment Plant Design in Dubai.

1996-1999 **M.P.S**

Technical/Commercial Director- I carried out the Design and Commissioning of Industrial Effluent Treatment Plant, Environmental Consultancy and Troubleshooting work. I was responsible for Design of Effluent treatment Plant for a Major Pharmaceuticals manufacturer, and Consultancy for Design of a £1.5M Industrial Effluent treatment Plant. I produced a study for one of the water plc's for Process Selection at a large new STW, commissioned sludge thickening centrifuges, and carried out a hydraulic and process check for a refurbished STW. I produced technical reports, and appeared in court as an expert witness in the case of a prosecution for exceeding consent to discharge.

- 1995-'96 **Birtley Engineering**
Senior Proposals Engineer - Water, Sewage, Industrial Effluent Design, Commissioning, Process support, Proposal preparation. Commissioning of Sewage Sludge Thickening Plant (Minworth STW).
- 1993-'95 **Purac (Scotland)**
Proposals Engineer - As above. Largest project won: Jellyholm WTW £5.4M- Refurbishment of existing Filter Station to Two stage DAF and RGF. Won projects in Digestion, Thickening, and Drying of Sewage Sludge, Potable water treatment, etc. Commissioning of SAS Thickening DAF plant. Contract stage Process Design of Potable water, Sewage treatment plant. Total Contract Value Successfully Tendered approx. £22M.
- 1991-'93 **Water Engineering (Now WABAG)**
Projects Engineer - Water, Sewage, Industrial Effluent Design, Proposal preparation. Largest Tender: Riva STW, Turkey \$1.8Bn.
- 1990-'91 **Viridian Bioprocessing**
Industrial effluent R&D, Tendering, Process Design.
This small Biotech firm, based in Kent, gave me my first practical experience in Industrial Effluent Treatment.

Keywords:

Primary treatment, Secondary treatment, Tertiary treatment, Pilot, Design, Commission, Contractor, Consultant, Odour, Water, Effluent, Sewage, Groundwater, Industrial, Potable, Boiler, Ultra Pure, Pump, Scraper, Detritor, Centrifuge, Dosing, DAF, Filtration, Settlement, SBR, Activated Sludge, Digestion, Membrane, UF, RO, GAC, Proposals, Process, Tendering, Staff Management, Hazop Chair, Sales, Negotiation, Design, Hydraulic.