## **Curriculum Vitae – Fred Higham**

Year of Birth 1980 Nationality British

Qualifications MEng. (Hons) Civil Engineering, 2002

CEng Chartered Engineer, 2011

MIStructE Member of the Institution of Structural Engineers, 2011

Position Director

## **Career Summary**

Over 18 years' experience in structural engineering and construction design, working on a variety of building types with project values ranging from £300k to over £100m. Fred has worked on projects in many sectors, and has particularly detailed experience in industrial/waste, residential, education/research, healthcare, sports/leisure, transport and international development sectors.

- Industrial: Avonmouth Polymers 2: Lead civil engineer for new plastics recycling facility on the site of the new EfW plant. <u>Dundee EfW</u>: Lead designer for civils works and the new Energy from Wase plant. <u>Louvolite</u>: Lead structural engineer for warehouse extension and new automation wing for manufacturing plant in Manchester.
- Education/Research: NAMRC: circa £20m structural design engineer for new 20,000 m² Nuclear Advanced Manufacturing Research Centre (NAMRC) for Sheffield University, along with 5,000 m² Knowledge Transfer Centre and extension to the existing AMRC. Netherwood ALC, Barnsley (Foulstone Wombwell): circa £40m Structural design engineer for a new Advanced Learning Centre using a hybrid in-situ and pre-cast concrete frame from the Laing O'Rourke production facility at Steetley.
- Healthcare: Aga Khan Hospital, Dar Es Salaam, Tanzania: circa US\$70m Lead designer for the Phase 2 development of the hospital. 15,000 m² extension to the existing 10,000 m² hospital. Concrete frame hospital in tropical coastal environment. Sunderland Royal Hospital Emergency Department: circa £20m refurbishment and extension to the Sunderland Royal Hospital Emergency department. New steel frame extension and strengthening to the existing concrete structure.
- Sports/Leisure: London Olympic Stadium Transformation: refurbishment of the London 2012 Olympic Stadium, working with the original stadium design team, including Populous architects to convert the stadium into a combined International Athletics and Premier League football facility. Including cable net-supported solid deck roof, moveable seating and strengthening of the existing structure. Redcar Leisure & Community Heart: circa £30m mixed use development including three swimming pools, a "flow rider" (artificial surf riding machine), sports hall, community spaces, debating chamber and "enterprise centre" to encourage local businesses. Steel frame building, shortlisted for the Institution of Structural Engineers global award for regional development projects 2015.
- Transport: HHR, Makkah Station, Saudi Arabia: overall project value circa US\$1bn Haramain Highspeed Rail (HHR) project in Saudi Arabia. Lead structural designer on Makkah station, the largest of the four stations, working with Foster & Partners architects.
- International development: Orphans and Vulnerable Children (OVC) Housing and Construction Support to HIV/AIDS projects: circa €600k, Construction manager for GOAL Malawi, an international NGO. 12 month secondment from Buro Happold, managing construction projects for GOAL Malawi.

## **Brief Career Overview:**

2015 – to date	Director, Melia, Smith & Jones Ltd, Consulting Civil and Structural Engineers, Leeds
2006 - 2015	Senior Engineer, Buro Happold Consulting Engineers Ltd, Leeds
2003 - 2005	Engineer, White Young Green, Consulting Engineers, Leeds
2002 - 2003	Graduate Engineer, Australian Consulting Engineers (ACE), Sydney, Australia

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