GRAHAM HORNBY, Technical Director - Acoustics

ACOUSTICS, WSP | PARSONS BRINCKERHOFF

YEARS WITH WSP

10

YEARS TOTAL

15+

PROFESSIONAL QUALIFICATIONS

MIOA, 2003

AREAS OF PRACTICE

Acoustics

Vibration

CAREER SUMMARY

Graham is a Technical Director at WSP | Parsons Brinckerhoff and manages the acoustics team based in Leeds and the architectural acoustics team in the Manchester office.

He has over fifteen years experience in the field of acoustics, gained on a variety architectural, environmental and building commissions. These cover a wide range of projects and clients, including industrial, commercial residential and education sectors. Graham has experience of managing a team of consultants and project management of large and small projects in Australia, UK, US, Dubai, Qatar, Libya and across Europe.

- Over fifteen years' experience in acoustics, noise & vibration consultancy.
- Strong project management (including formal project management training), including client communication, financial and commercial control and reporting.
- Experience in architectural & room acoustics and building services noise and vibration control.
- Experience in projects around the World.
- Experience in Hi-rise schemes.
- Particular speciality in acoustic design of residential schemes, education and healthcare facilities.
- Good organisational skills and ability to operate individually and within a team
- Strong commercial awareness
- Able to act as an expert Witness

EDUCATION

BSc(Hons) Environmental Health, Middlesex University	2003
Post Grad Diploma in Acoustics and Noise Control (IoA)	1999
NEBOSH Level 6 Diploma in Occupational Safety & Health	2006

PROFESSIONAL MEMBERSHIPS

Corporate Member of the Institute of Acoustics (IoA)	2003

GRAHAM HORNBY, Technical Director - Acoustics

PROFESSIONAL EXPERIENCE

Educational Research Projects

- Factory 2050, University of Sheffield (2015 - 2016):

  Role on Project. Lead acoustic engineer for a new build Advanced Manufacturing & Research Centre (joint venture between Boeing and University of Sheffield). Due to the acoustically challenging shape (a large glass rotunda), acoustic design was critical to ensuring a fully flexible and useable space.

  Project Value: £43m Client: Interserve Construction

- LVV, RTC & iCAIR AMRC, University of Sheffield (2016 - present):

  Role on Project. Following the success of the Factory 2050 project, Graham has been appointed on three further projects within the same advanced manufacturing campus on Sheffield Business Park. The individual projects are the Laboratory for Validation & Verification (LVV), Royce Translational Centre (RTC) and Integrated Civil & Infrastructure Research Centre (iCAIR).

  Combined Projects Value: £20m Client: University of Sheffield

- The Research Hub, University of Glasgow (2016 - present):

  Role on Project. Lead acoustic engineer for a new build Research Hub at University of Glasgow, containing specialist vibration sensitive equipment. Currently undertaking detailed studies of groundborne vibration from adjacent underground Metro system, with a view to determining whether whole building requires isolation or localised parts of the building can be isolated. Resulted in extended vibration survey across entire masterplan.

  Combined Projects Value: £40m Client: University of Glasgow

- Green Skills Building, Central Institute of Technology, Perth, AUS (2013):

  Role on Project. Lead acoustic engineer for a new build college building, made entirely from sustainable materials, it's designed to operate without any power from the grid or water from the mains. The scheme included use of exposed soffits and natural ventilation labyrinth chambers to enable natural cooling whilst controlling noise break-in due to an adjacent and busy rail junction. Also included in the scheme were a number of wind turbines, close to adjacent residential areas. As part of the design process auralisations were made of the space to demonstrate that careful balancing of the reverberation time criterion and internal ambient noise levels resulted in identical levels of speech intelligibility whilst enabling the design team to deviate from the College's acoustic standards to enable the use of the exposed soffits.

  Combined Projects Value: AUD$17m Client: Central Institute of Technology