

David Rafferty MEng (Hons) CEng MIStructE

Structural Engineer

Position

Associate Director

Qualifications

MEng (Hons)
Chartered Engineer

Professional memberships

Member of Institution of Structural Engineers



Years of experience

>19 years

David has a wide range of experience as a Structural Engineer on a variety of building projects, including historic and new construction.

Relevant experience

David's duties have included client and professional team liaison, concept and detailed design, work planning and site supervision. At the Royal Academy of Arts, his experience has reinforced a strong interest in unusual structures, including glass and sculpture.

Project experience

The Royal Academy of Arts, London: The RAA carry out regular works to restore, improve or extend their listed buildings and a large scale masterplan has been produced for the linking of their buildings. David's work included the formation of a new basement beneath the courtyard, adjacent to the historic foundations.

The Royal Observatory Greenwich: The National Maritime Museum's Planetarium was in need of replacement. David's initial feasibility study and structural survey showed that there was insufficient space to house a new modern facility in the existing south building and so a new, partially underground, structure was developed and constructed, topped with a landmark cone in the new courtyard above.

The University Arms Hotel, Cambridge: The existing buildings hotel built between the 1890's and the 1960's is undergoing a major re-build, with the 1960's fabric demolished and replaced with a new concrete framed structure over an new deeper and enlarged basement. The more historic elements are being retained, and refurbished, with a new level of bedrooms constructed above. David is responsible for the overall design of all aspects of the project.

Wetherby Gardens: An existing 19th century townhouse, which was in a dilapidated state, has been replaced with 3 duplex apartments. The project retained the façade of the original building and formed a new steel framed structure behind to accommodate the modern spaces. The building included an extended basement to accommodate both new living accommodation and the services required for the development. David was responsible for the overall design of all aspects of the project.

Cross Rail – Electra House: David provided support to CrossRail contractor BBMV with respect to the installation permeation grouting beneath a Grade II listed building. The installation of the grout required a large number of holes to be drilled in close proximity (or through) the existing foundations and he advised on acceptable sequences and methods to minimise the risk of damage to the building above.

The Bhavan Centre, West Kensington, London: The Indian arts and cultural centre is located in a former church building. As part of the works to redevelop and extend the auditorium David designed a new basement beneath the existing ground floor to accommodate toilets and back of house facilities.