

Birmingham Dental Hospital & School of Dentistry



Project name:

Birmingham Dental Hospital & School of Dentistry

Location:

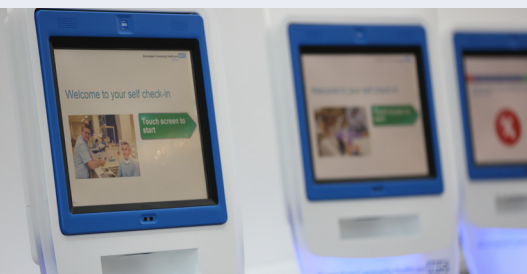
Pebble Mill, Birmingham

Value:

£33m new build project

Services:

Architecture
Interior Design
Structural & Civil Engineering
Landscape Architecture
Town Planning
CDMC
Arts Co-ordination
BREEAM



The Brief

One was appointed by Local Improvement Finance Trust, BaS LIFT, to design and deliver a pioneering new dental hospital and dental school for Birmingham Community Healthcare NHS Foundation Trust and the University of Birmingham.



Project Overview

The Birmingham Dental Hospital and School of Dentistry is the UK's first new combined dental hospital and school of dentistry for 40 years.

The development of the 1.23-hectare (3.05-acre) site into a new four-storey dental hospital and school of dentistry was constructed in 3 years, with a build cost of £33m. Totalling 15,465sqm, it houses a range of services for the public including walk-in emergency dental care, Restorative, Oral Surgery, Oral Medicine, Orthodontics and Paediatric Dentistry.

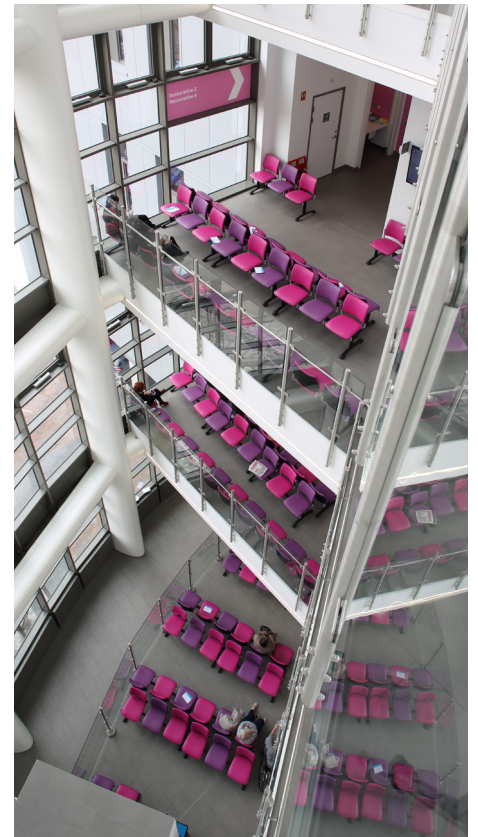
The public are now able to access all dental services in one wing of the building with a second wing providing world-class research facilities and a modern learning environment for more than 600 undergraduate and postgraduate students and trainees.

Using BIM from the outset has allowed collaboration between the whole development and design team, while involving clients and contractors throughout – achieving a well-designed, cost effective facility.



The design of the building is innovative and will provide a great opportunity to integrate dental treatment, learning and research in a modern, state-of-the-art environment.

Barry Cockcroft, Chief Dental Officer for England



The Benefits

- **Meeting a tight budget and time constraints** – The team at One recognised how the project design would need to move quickly in order to secure NHS funding.
- **Users and consultees were able see a virtual building at an early stage allowing them to 'buy into the design'** – The scheme could be visualised at an early stage, giving owners, operators and users a clear idea of the design and the opportunity to feed into it to achieve the clinical outcomes required. This was of particular benefit to non-technical clinical users, giving them the opportunity to interact more enthusiastically with the design process, particularly as the brief evolved.
- **Early detailed design results in accurate designs and reduced costs** – Taking advantage of intelligence and automation within the model environment to check design integrity, ensures co-ordination between all project documents. By reducing human error and the opportunity for conflicts between documents, this offers a greater degree of confidence in both the design and cost, with a higher quality of design output.



For further information
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