

CLIENT

University of Portsmouth

LOCATION

Portland Building, Portland Street, Portsmouth

VALUE

£5.3M

DATE

July 2016
January 2018**CASE STUDY**

Future Technology Centre.

About the project.

A four-storey in-situ concrete framed extension to the existing Portland Building to create a new Future Technology Centre providing a central hub for simulation, visualisation and modelling applicable to digital engineering and applied sciences for students.

The design and construction of the four-storey, (five with mezzanine) reinforced concrete frame provided a mixed-use extension for presenting, recreational, workstations and production facilities.

Construction included CFA piling with pile caps and strip foundations, after UXO surveys and underground service diversions were undertaken.

The envelope was of mixed construction combining Sto render to the concrete with infills of ribbon windows, punched windows, full height curtain walling units and structural glazing incorporating Romag photo voltaic panels in a Trom Wall System (stacked natural ventilation), to cool the building.

The internal fit-out was devised to show exposed services partially obscured by suspended acoustic ceiling panels and radiant heating panels.

The building services were controlled by Schneider BMS Controls interlinked with Velux roof lights controlled by window master actuators.

Floor coverings were a mix of carpets and vinyl dependent on room requirements and End User use e.g. vinyl flooring where the laser sintering machine was housed that forms 3D models out of solid materials.

The site was constrained on all four elevations and due to the nature of the project and it being within a live campus, deliveries were scheduled to suit low peak pedestrian / student traffic movements. With only one way in and one way out on a narrow road, a traffic marshal was required to assist vehicles to reverse safely.

The Future Technology Centre achieved the required BREEM rating of "Excellent" with a credit score of 73.

