



SCIENCE AND ENGINEERING PRECINCT

2025



Project Budget £425 million

Client Uni of Warwick

Project Role Architect Director

The Science and Engineering Precinct is a £425million three phase investment into the faculty of science and engineering. This project creates a innovative 21st century teaching, learning, and research facilities that will improve interdisciplinary

collaboration and the quality of their environment.

Designed as a Passivhaus certifiable building, this 26,500m² Phase 1 building is a low-carbon, highly innovative building, proposed to have insulated CLT external facade which is designed to be manufactured off-site to improve quality and construction programme.

The building will be open to Students for the 2028/29 academic year.



RENEWABLE ENERGY CENTRE

2024



Project Budget £17.5 million
 Client Uni of Warwick
 Project Role Architect Director

This low-carbon energy centre utilises air-source heat pumps to link multiple university new-builds using an ambient loop system. This low-energy system shares heating and cooling between buildings and helps the university to deliver substantial operational savings.

A key part of the brief is to provide a flexible infrastructure that can be increased in capacity to suit future energy demands within the campus and giving the estates team the opportunity to fine tune their energy usage.

The building will deliver heat and cooling to buildings in the 2028 for witnessing and commissioning of two new buildings, including the Science and Engineering Precinct and the Social Science Building.



SCIENCE AND ENGINEERING, MANCHESTER

2023



Project Budget £115 million
 Client Manchester Met
 Project Role Architect Director

The new Science and Engineering building for Manchester Metropolitan University is a significant investment in 21st Century innovative teaching and learning. The project creates a new building for the staff offices, undergraduate teaching and research laboratories.

The retained estate is substantially refurbished to create a consistently high quality environment for all.

The project started in early 2013, following the appointment by B+K in January 2020 the building has been progressing quickly on site with the concrete frame now substantially complete.

The building opened to Students for the 2023/24 academic year.



INSTITUTE OF SPORT, MANCHESTER

2021



Project Budget £12 million

Client Manchester Met

Project Role Architect Director

The new Institute of Sport building substantially refurbished the old Student's Union Building at 99 Oxford Road.

This low-carbon, fast track project was completed in an 18-month period to enable the Sport Scientists

to decant from the John Dalton Campus and free space for it's sister project, Science and Engineering.

Working with the existing frame we inverted the old building, using external balconies to create dynamic internal spaces for collaboration and self-directed learning. These multi-storey atria bring light deep into the building.

The building opened to students in January 2022.



WARDLE ACADEMY, ROCHDALE

2021



Project Budget £1 million

Client Watergrove Trust

Project Role Associate Architect

An innovative refurbishment of an inherited 1970's leisure centre created a suite of much needed teaching and social spaces for the Academy.

The low-carbon, modular, simple technology approach to the project

enabled a fast track creation of new space to meet the Trust's urgent requirements for expansion.

Substantial use of timber creates a warm environment which supports the Health and Well-being of all occupants. The material choice enabled the team to design to material module sizes and reduce construction waste.

The space opened in January 2022.



ORDSALL CHORD, MANCHESTER

2018



Project Budget £132 million

Client Northern Hub Alliance

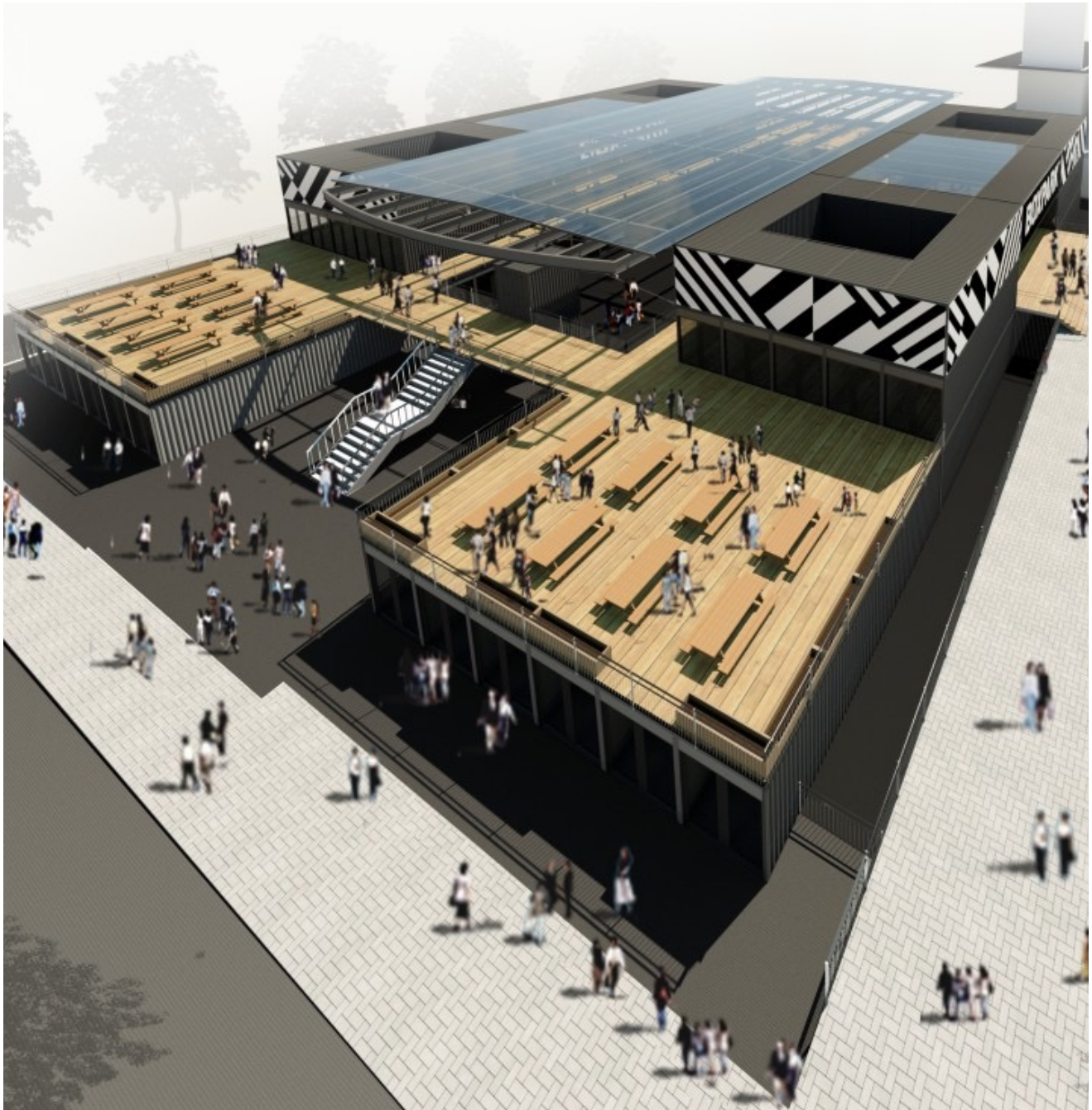
Project Role Associate Architect
Architect CRE

The Ordsall Chord is a significant infrastructure project which will connect Manchester Victoria Station with Deansgate, Oxford Road and Piccadilly stations for the first time in

nearly 200 years of railway development.

This dramatically improves the rail connectivity across the whole North West of England.

The site is adjacent to a number of Grade 1 and 2 listed structures indicating an area of historical importance and the project has subsequently won a number of design and collaboration awards.



BOXPARK, CROYDON

2015



Project Budget £2 million

Client Boxpark

Project Role Senior Architect

Boxpark is a company specialising in the 'pop up mall'. Their strategy is to create a shopping destination on undervalued land using a simple structure of shipping containers. Their first mall in Shoreditch, London and is very successful.

This scheme was prepared in association with Croydon council and announced at MIPIM in 2015.

The animation for the scheme can be found on Vimeo (<https://vimeo.com/121672378>) and was my primary task on this project.

The project is currently being prepared for a planning application and should be on site in late 2015.



OLDHAM TOWN HALL

2013-2015



Project Budget £33 million

Client Oldham Council
Morgan Sindall

Project Role Senior Architect

Oldham Town Hall is a Grade II listed building in the heart of Oldham Town Centre. Derelict for 30 years, the metropolitan borough council has been searching for ways to bring this historic building back into use.

BDP were appointed in 2012 to create a feasibility study to provide a seven screen cinema along with retail units and an improved urban realm.

This project has been delivered completely using REVIT Architecture and is BIM Level 2 compliant.

The contractor is completing strip out work and is currently erecting the main steel frame. The project is due to be completed in 2016.



LANCASHIRE COUNTY CRICKET CLUB PAVILION

2012-2013



Project Budget £8 million

Client LCCC
Morgan Sindall

Project Role Senior Architect

The Lancashire County Cricket Club situated at Old Trafford Cricket ground in Manchester is a historic and significant site.

BDP were commissioned in 2005 to create a master plan for the site to

increase capacity of the ground and provide facilities to improve the financial viability of the club. Starting with 'The Point', a conference and events venue, this master plan was being realised over three phases.

The historic heart of the club, The Pavilion Building, was redeveloped as part of Phase 2B of this redevelopment plan.

Phase 2B was completed in 2013.



LANCASHIRE COUNTY CRICKET CLUB GRANDSTANDS

2013



Project Budget	£6 million
Client	LCCC Morgan Sindall
Project Role	Senior Architect

The Lancashire County Cricket Club situated at Old Trafford Cricket ground in Manchester is a historic and significant site.

BDP were commissioned in 2005 to create a master plan for the site to

increase capacity of the ground and provide facilities to improve the financial viability of the club. Starting with 'The Point', a conference and events venue, this master plan was being realised over three phases.

The Players and Media Building and Grandstands were part of Phase 2A of this redevelopment plan.

Phase 2A was completed in 2013.



ABRAHAM DARBY SPORTS AND LEARNING COMMUNITY 2008-2012



Project Budget £40 million

Client Telford Council
Kier (Central)

Project Role Project Architect

Abraham Darby Sports and Learning Community is the bid winning scheme for the Telford and Wrekin Council Building Schools for Future programme.

The £40 million scheme incorporates Abraham Darby Academy, Woodlands Nursery and Primary School and a local authority leisure centre.

The existing site is located on a steeply sloped site with the Primary School at the top of the hill and the Academy and Leisure centre dug into the hillside to reduce their scale in comparison to the Primary.

Completed in 2012.



CULCHETH HIGH SCHOOL

2007-2010



Project Budget £28 million

Client Warrington Council

Project Role Project Architect

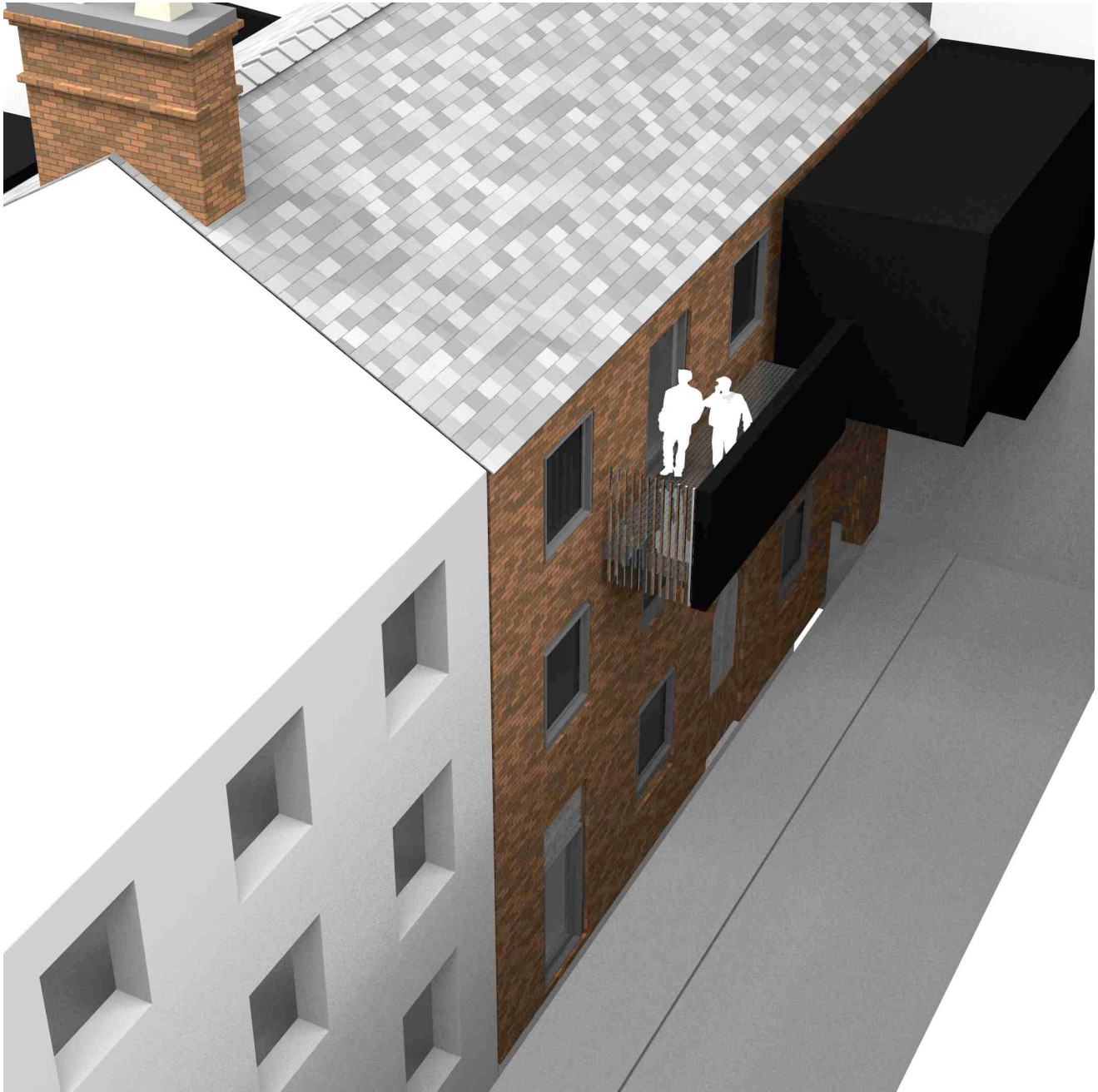
Culcheth High School is a one school Pathfinder project for Warrington Borough Council.

The building is arranged along a central spine called 'The Street' with teaching wings projecting outwards. These wings are oriented to take

advantage of the views towards Winter Hill and the area of green belt land to the North.

Each of the teaching wings has a graphic identity to help staff and students orient themselves along the 145m length of the street. The wings are called Brunell, Curie, King and Shakespeare.

The initial scheme started in 2007 and was completed in May 2010.



CORNERHOUSE MANCHESTER

2007-2008



Project Budget £650,000
 Client Cornerhouse
 Project Role Project Architect

Cornerhouse is Manchester's international centre for visual arts and film. Arca won a competition to renovate an adjacent Victorian warehouse building owned by the city council. We completed three sketch schemes; the competition winning design that installed a series

of ramps through the main Oxford Road building, a golden wasps nest that mediated between the differing floor levels (left) and the final rubber box scheme that has recently been submitted to the local authority (above). The rubber box is intended to be an alien addition to the street behind the Oxford Road building.

We developed the detailed design for tender in May 2008.



CONCESSIONS BUILDING MORECAMBE

2007-2008



Project Budget £300,000

Client Lancaster Council

Project Role Architect

A regeneration unit of Lancaster City Council called Winning Back Morecambe commissioned Arca to provide a landmark building that expressed their enthusiasm and aspirations for Morecambe.

The building occupies a prominent location on the Morecambe sea front with commanding views of the bay and the promenade.

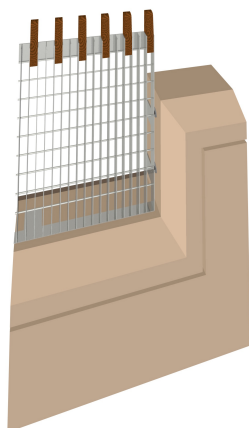
Arca's design is an unashamedly modern stainless steel picture frame that wraps around two large plate windows offering extensive views of the bay.

The scheme was completed in 2008 and won 'Best Small Commercial Building' in the 2009 MSA Awards.



EUSTON ROAD MORECAMBE

2007-2008



Project Budget £300,000

Client Lancaster City

Project Role Project Leader

A local regeneration unit of Lancaster City Council called the Neighbourhood Task Force appointed Arca to create a vision for a series of sixteen properties on the main road leading into Morecambe town centre. The proposed scheme includes elevation refurbishment,

upgrading the front gardens and installation of a bespoke fencing system.

The bespoke fencing system was designed as a kit of parts using orosgril metal grating and oak timber profiles fixed between the metal plates of the orosgril. the oak profiles match the material used for the new front doors to each property.

The project was completed in June 2008.



CANOPUS GREENGATE SALFORD

2008



Project Budget £100 million

Client BSC Group

Project Role Architect

The greengate development is a commercial, residential and hotel scheme in the centre of the Salford Exchange Masterplan. sited opposite Manchester Cathedral the building will be prominent visual link between the two cities.

Granted planning approval and was commended in the 2007 Manchester Society of Architecture annual awards.

The scheme consists of two forty-six and thirty-one stories high built on a podium six storey building clad with an interwoven system of panels. A central courtyard knits the buildings together and provides a receptions for the hotel.



TATE LIVERPOOL

2006-2007



Project Budget £750,000

Client Tate

Project Role Project Leader

Arca were invited to submit proposals in a limited competition that aimed to provide the gallery with an improved ticketing system, education facilities and special event facilities. The new spaces were to provide better connection with the refurbished shop and cafe, whilst expressing the

gallery more effectively towards the visitors to the albert dock.

This scheme is structured to communicate the physical extent of the gallery through a simple series of windows lit by LED lights that are intended to draw visitors to the gallery and differentiate the gallery from the adjacent residential units.

Internally a series of vessels were installed to improve the operation of the foyer spaces.



WEST END ROAD FLATS MORECAMBE

2006-2007



Project Budget £450,000

Client Lancaster City

Project Role Architect (2007) & Part III Student

A regeneration unit of Lancaster City Council called Winning Back Morecambe commissioned a series of residential refurbishment projects to rejuvenate the dilapidated West End of the town. The area had a predominance of single bed rooms

and hotels which were becoming associated with antisocial behaviour.

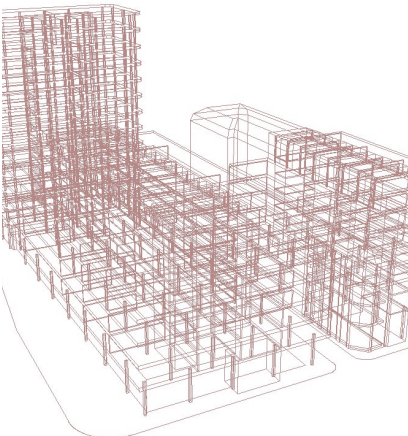
Arca completed a series of single family dwellings and flats. The schemes all demolished large outriggers and reconfigured the flats into lateral conversions. The scheme installed distinctive cumaru timber cladding to the rear balconies of the properties.

The four apartment schemes were completed in 2008.



GUN STREET MANCHESTER

2005-2007



Project Budget £15 million

Client BSC Group

Project Role Part III Student

The gun street development is a residential project with over one hundred luxury apartments. The building consists of a twelve storey tower and two five storey courtyard blocks, one of which integrates an existing Grade II listed warehouse.

The brief was to adapt an existing planning consent whilst allowing the client to procure the building through a management contract. This enabled packages to be out sourced in China and as a result wet trades were replaced with prefabrication.

Arca ended their involvement with this scheme after producing the required tender packages for the internal and external elements.

This project completed in 2015



MATHS TOWER PROJECT UNIVERSITY PROJECT

2005



Project Manchester University

Year Sixth Year

Course B(Arch)

The redevelopment and merger of Manchester University and UMIST was being discussed and procured during my final year of the B(Arch) studies. These events inspired my final year project to redevelop a master plan for the Maths Tower area of Manchester University.

This scheme investigated the theories of reuse of existing buildings in architecture. This project was a culmination of a dissertation into the strategies and techniques into the reuse of existing buildings and a campus masterplan. These theories were examined in detail and the project proved that a new structure could be integrated into the Maths Tower allowing the building to meet modern requirements.