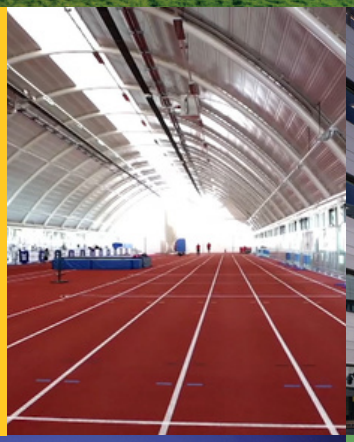
Hannan
Associates
MEP Design Solutions

# Education & Training




# Introductions

Hannan Associates was established in 1983 by Bill Hannan as an engineering consultancy to provide Building Services Design solutions to the construction industry.

We focus on providing **Building Services Engineering, Sustainability and Utilities Infrastructure Consultancy**, tailored around the unique requirements of each of our clients.

# What do we stand for?

**Our Mission** is To develop building services engineering solutions that help create happy, healthy, safe places to live, work and play that don't 'cost the earth!'

**Our vision** is to be known as the go to, independent MEP consultancy for innovative and dependable advice regarding high performance, low energy building services systems.

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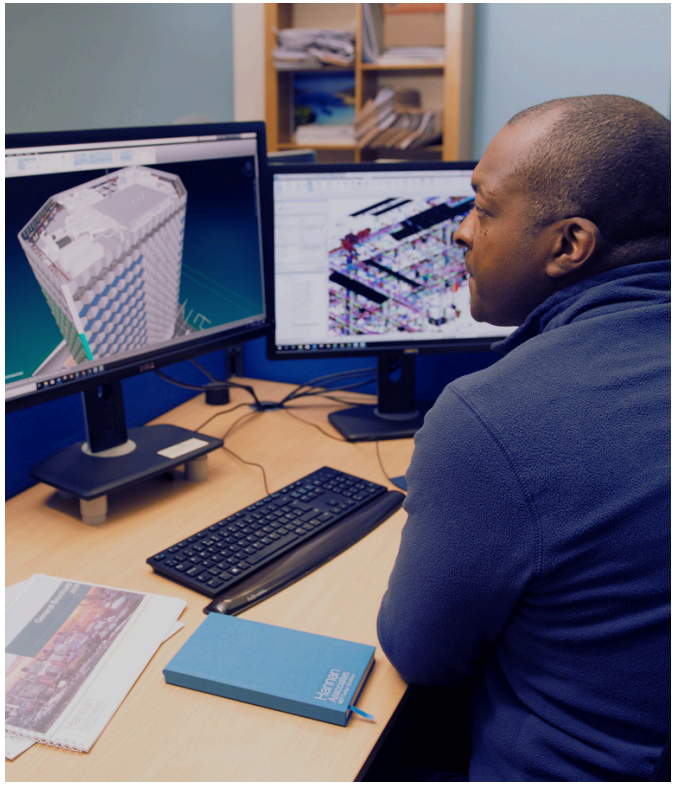
# Our Expertise



The services we provide are constantly evolving to meet new legislation and changing market needs.
We continue to focus on Building Services Engineering Design though today most projects have a Sustainability strategy and considered path towards Net Zero Carbon. We have in-house Sustainability and Energy Modelling teams and provide a wide range of sustainability related advice to our clients. We are at the forefront of change in relation to the way buildings are modelled to meet the demands of evolving Building Regulations and industry guidance.

## Infrastructure

- Masterplanning Support
- Infrastructure planning & design
- Construction Inspection & Supervision
- Value Engineering Reviews

## Building Services Design

- Electrical Building Services Design
- Mechanical Building Services Design
- Part L Compliance
- Acoustics
- AV Systems
- EPC Certification
- Fire Engineering
- Internal Environment Modelling
- IT Systems Design
- Planning Reports
- Public Health Building Services Design
- Dynamic Simulation Modelling
- Vertical Transportation Design
- Water Conservation & Compliance Audits
- Value Engineering Reviews

## Sustainability & Building Performance

- BREEAM
- LEED
- NABERS
- BREEAM Communities
- CEEQUAL / BREEAM Infrastructure
- Planning - Energy & Sustainability Reports
- Sustainability Strategy (Building and/or portfolio level)
- Net Zero Carbon Pathways
- Embodied Carbon Life Cycle Assessments
- Low Zero Carbon Renewables
- Life Cycle Costing
- Operational Energy Modelling
- Passive Design Analysis
- Dynamic Simulation Modelling
- Building Health Checks
- EPC - (Energy Performance Certificates)
- Acoustics

## Surveys, Reports & Monitoring

- Condition Surveys
- Energy Audits
- Feasibility Studies
- Construction Inspection & Supervision

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# Our Experience

Helping to take education to the next level.

The best learning environments invigorate and engage, whilst improving an institutions reputation. We understand that purpose, performance and future use, are important aspects in the consideration of educational design.

Taking into account the constant change in technological advances, as well as the individual needs each space requires, we aim to create inspiring workspaces for students and faculty alike.

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# PROJECT: Tameside One, Ashton-under-Lyne

> **Client:** Tameside Council and Robertson

> **Architect:** Ryder

> **Project Value:** £36 M

> **Project Duration:** 2014 – 2019

We were part of the team who delivered Phase 2 of the 'Vision Tameside' master plan, transforming Ashton-under-Lyne Town Centre. We undertook the detailed design of the MEP Services and Infrastructure, as part of which we assisted the Council with their environmental services strategy to help them meet their aspirations to create a sustainable building.

The Tameside One development includes a new Advanced Skills Centre for Tameside College alongside a new Joint Service Centre for the Council and others partners.

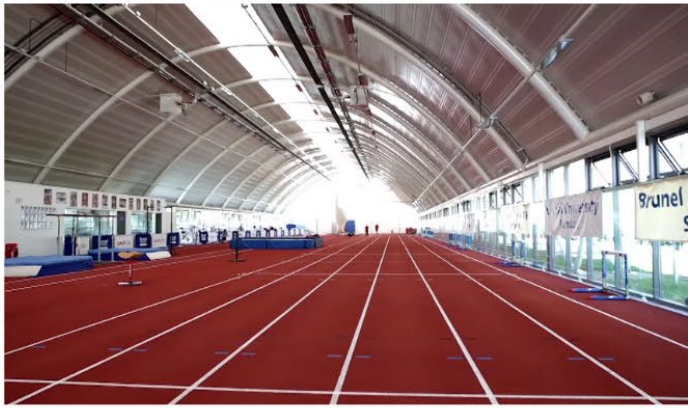
The 7,000sqm Advanced Skills Centre provides a new learning and skills centre for students studying vocational subjects including: hair and beauty, hospitality and catering, bakery and confectionery, travel and tourism and business skills.

The 6,000sqm Joint Service Centre incorporates a library, customer service centre, committee and training rooms and office accommodation for the Council and partners.

This phase of the development also includes a 2,150sq.m retail space.

# PROJECT:
# Brunel University Framework, London

> **Client:** Brunel University
> **Architect:** Various
> **Project Value:** £100M+
> **Project Duration:** 2002 – 2009




This £100m framework master plan included the appraisal, upgrading and enhancement of the campus utilities, security and IT infrastructure, to improve reliability and enable the new development on the site, as well as the formation of a statement gateway to access the site. The project included the evaluation of a range of sustainability measures; including biomass fuelled heating, micro CHP and Solar heating, and the replacement of the campus central heating system which provides heat to all buildings on the campus.

A new indoor 130m running track with support conditioning/science facilities and a new netball hall was created. Hannans designed the M&E Services so that both buildings were naturally ventilated. We also created building models to maximise the use of natural daylight in the buildings. Alongside the new indoor athletics centre development, the existing sports centre was refurbished and upgraded for student and community use.

Existing laboratory and workshops were converted to IT workshops and support areas, together with the alteration and refurbishment of the Engineering Complex to provide a range of facilities for departments being relocated from another campus. These included laboratory facilities, engineering workshops, display spaces, IT workshop and storage facilities.

Other works included the installation of an 80kw combined heat and power unit for experimental purposes, scenic passenger lifts, audio visual facilities, interactive study space, and the refurbishment of the front of house areas incorporating internet café at the central lecture hall.

# PROJECT:
# MUFC Training Ground Carrington

> **Client:** Manchester United Football Club
> **Architect:** Marshall Kypriandis Associates
> **Project Duration:** 2010 – 2014


Having successfully completed the academy building and full-size indoor pitch at Manchester United's Carrington training complex, Hannans were appointed to design the building services and infrastructure diversions for a series of alterations, extensions and new buildings.

The scheme included:

- Refurbishment alteration and extension of the first team building
- A new sponsors building
- A new parents and spectators building
- Relocation and additions to the side courts
- New car parking surfacing
- Temporary accommodation and lighting
- A new feature linking glazed walkway and water feature with illuminated signage.

The works included an enabling diversions and drainage improvements package and working on a live site environment with the first team, academy teams and team management remaining on site during the works. This required careful planning and phasing of the works to protect all staff but particularly the valuable players and management team while maintaining privacy and completing the project in a short timescale.

# PROJECT:
# Heinz Wolff Building, London

> **Client:** Brunel University
> **Architect:** Sheppard Robson
> **Project Value:** £5.5 M
> **Project Duration:** 2008 – 2010

This scheme consisted of the part refurbishment of the two storey Heinz Wolff Science Building at the Uxbridge Campus of Brunel University to provide new heating, ventilation and laboratory services whilst the building remained part occupied by PHD research students.

Study spaces and research laboratories were brought up to modern standards to provide new fume cupboards, high quality lighting and IT/Data services throughout.

# PROJECT:
# Whiteknights Campus, Reading

> **Client:** University of Reading

> **Architect:** ACR

> **Project Duration:** 2008 – 2009

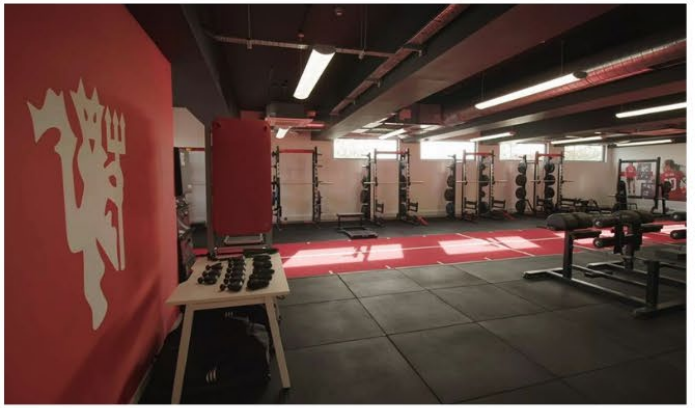
The University of Reading enlisted our help with de-commissioning part of a 1960's built research faculty at their Whiteknights campus.

As well as designing the refurbishment of the basement, ground and first floors, duties also included a survey of the existing structure which brought about the recognition of high levels of asbestos.

All works were carried out whilst retaining the existing services and infrastructure to the Bio-science lab, science museum, refectory, lower floors, roof area and all fire escapes.

# PROJECT:
# MUFC Carrington Training Centre – Women and Academy

> **Client:** Manchester United Football Club
> **Architect:** Fairhursts Design Group
> **Project Duration:** 2023
> **Project Value:** £7M



Our Stadia team produced the MEP performance specification and concept drawings for this new training base for Manchester United Women and Academy, at Carrington.

The new prefabricated building is part of the ongoing improvement work to enhance training facilities at Carrington.

Facilities include a gym, rehabilitation areas, changing facilities, kit and boot rooms, a women's first team restaurant, meeting rooms and a players' lounge.

Our duties on the project included:

- Building Services Engineering consultancy
- Utilities Infrastructure consultancy

We joined Fairhursts Design Group and Curtins on the design team.

# PROJECT:
# Hartford Art Studios, Cheshire

> **Client:** Mid-Cheshire College
> **Architect:** Studio Plan
> **Project Value:** Approx £2.5M+
> **Project Duration:** 2005 – 2008

The project incorporated the construction of a new build 2 storey Art Block within the existing college campus. Developed as a bespoke art studio complex, this 21st century learning environment consolidates specialist art provision within the Hartford Campus.

Offering a mix of specialised spaces which include ceramic workshop space, graphics and general art space, the development has resulted in a step change in perceptions for the college. For Hannans the work package included the complete design and installation of new systems within the building, and involved providing a performance duties service.

# PROJECT:
# Blackpool FC
# Training Ground & Academy

> **Client:** Blackpool Football Club & Walker Sime

> **Project Duration:** 2022 – ongoing

> **Architect:** AFL Architects

Hannan Associates are pleased to be working on the Training Ground and Academy for Blackpool FC.

The scheme includes six grass pitches, a full size artificial pitch and a covered artificial area as well as changing, medical, coaching, fitness and education areas.

Our role on the project includes Sustainability Services, Infrastructure and MEP Design.

We join AFL Architects, Walker Sime, MJMC, PWA Planning, AEC Ltd, ERAP and O'Neil & Partners on the design team.

# PROJECT:
# West Cheshire College, Ellesmere Port

WEST CHESHIRE COLLEGE

> **Client:** West Cheshire College

> **Architect:** Bond Bryan Architects

> **Project Value:** Approximately £6.0M.

> **Project Duration:** 2013 – 2015

Our duties involved the construction of a new nursery block, the refurbishment and expansion of an existing arts block, demolition of existing teaching buildings, construction of a new teaching building, and renewal of the site utilities infrastructure.

The project was centred on a fixed budget and space requirement, with very tight deadlines that has to adhere to secure funding. Speed of response by the team as a whole and value engineering were a very important aspect of the project. Natural ventilation with minimum mechanical assistance where necessary was a major feature of the design.

# PROJECT:
# Mesivta High School, Prestwich

> **Client:** Manchester Mesivta High School
> **Architect:** Bernard Joseph Associates
> **Project Value:** £4.5 M
> **Project Duration:** 2003 – 2005

This project involved the construction of a new build 3 storey Boys Secondary School and 6th form block.

Acting as Principle Services Designers, our work included providing the design of all new mechanical, electrical, public health and lift systems within the new building.

These systems included mains distribution, lighting, general power, fire and security systems, communications, heating, ventilation and comfort cooling.

# PROJECT:
# Leeds United Training Ground

> **Client:** Leeds United Football Club

> **Project Value:** £6.5 M

> **Architect:** Riverside Architects


New training academy with state-of-the-art medical facilities for Leeds United Football Club.

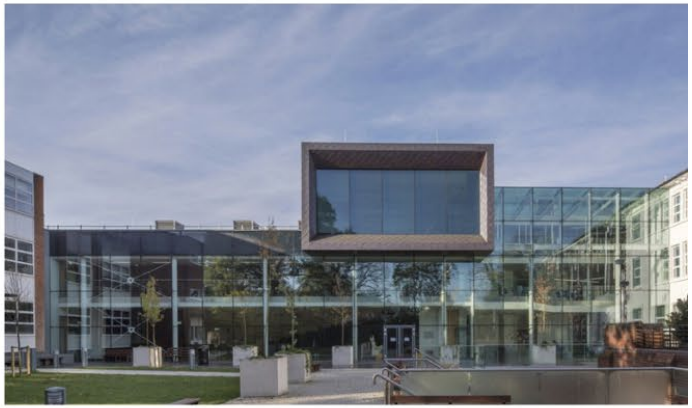
Facilities included a 73m x 48m indoor Field Turf pitch, 25m x 15m hydrotherapy pool, sauna, steam room, gymnasium and a rehabilitation area. Hannan Associates were responsible for the design of all the Building Services associated with the development.

# PROJECT:
# Notting Hill & Ealing School, London

Notting Hill & Ealing High School GDST

> **Client:** Girls Day School Trust
> **Architect:** Various
> **Project Value:** £11M
> **Project Duration:** 2008 – 2010





This venture was a complex new build and remodeling project all set within a live school environment.

Works consisted of the demolition of the existing gymnasium and assembly hall located at the heart of the school, and the construction of a new six storey extension. The new west wing includes an underground sports hall built to Sport England standards, a large double height multi-functional hall, a 100-seat theatre complete with state of the art lighting and sound, and a second floor dance studio that is one of the feature architectural elements.

Remodelling and refurbishment works are also being carried out to improve the existing main entrance building at ground floor level with the reconfiguration of the existing entrance, reception, library and portrait room to form a clear, welcoming, light and open route leading seamlessly to the feature three storey high foyer space of the new extension.

Notting Hill and Ealing High School was 'Highly Commended' in acknowledgement and recognition of the positive, and beneficial contribution to the amenity of the London Borough of Ealing, in the 2014 Ealing Civic Society Awards.

# PROJECT: Stratford-upon-Avon High School

> **Client:** Ballast Construction

> **Architect:** Corstorphine & Wright Ltd

> **Project Value:** £14M

> **Project Duration:** 2000 – 2003

The project involved the construction of a ground, first and second floor school, separate sports hall, external all weather pitch, a caretaker's house and car parking facilities.

There were existing school buildings, which were demolished upon the completion of the new school complex. The building was designed in a way that would ensure the end result was environmentally friendly, energy conserving and maintenance minimising.

# PROJECT:
# St Mary's College, Blackburn

> **Client:** AA Projects & St Mary's College
> **Project Value:** £1M
> **Project Duration:** 2003 – 2005


This development involves the erection of a two storey build which will provide modern and well needed teaching and student accommodation.

This building became the new Social Science block for the college, and was designed to meet the requirements of an ever increasing student population and an important collaboration with Liverpool Hope University.

# PROJECT:
# BSF MBC Projects, Halton & Warrington

Currie & Brown

> **Client:** Currie and Brown Group
> **Architect:** Various
> **Project Value:** £360M
> **Project Duration:** 2009– 2010

The Building Schools for the Future (BSF) program was a scheme to see every state secondary school in England rebuilt or remodeled. Launched by the Department for Education & Skills in February 2004, BSF was the largest and most ambitious scheme of its kind anywhere in the world.

The redevelopment of the sites were designed to accord with saved policies of the Halton Unitary development Plan. The proposed schools were to be of a high quality in keeping with the surroundings and providing modern facilities, to enable sufficient standards for provision of educational accommodation. New BSF schools needed to be completely relevant to the immediate requirements for the delivery of the curriculum, but also be sufficiently flexible internally to respond to future changes in methods of education delivery.

Hannan associates provided a client side role assessing the bidders M&E Services designs. The program included 17 schools throughout the Halton and Warrington area.

# PROJECT: Blackburn Rovers Training Ground

> **Client:** Blackburn Rovers Football Club

> **Architect:** Riverside Architects

> **Project Value:** £8M


Training Academy and indoor pitch with facilities and accommodation for Blackburn Rovers Football Club.

Hannan Associates were responsible for the MEP and infrastructure design for the for the Blackburn Rovers Football Club Academy development.

The scheme included a full size indoor pitch, training facilities including swimming pool, changing facilities, medical facilities, accommodation and external pitches both grass and artificial.

# PROJECT:
# Centre Of Excellence, Bradford

LIGHTHOUSE GROUP
FINANCIAL SOLUTIONS

> **Client:** Brunel The Lighthouse Group
> **Architect:** JS Design Partnership
> **Project Value:** £3.2M
> **Project Duration:** 2006 – 2008

Hope Park Business Centre is the headquarters of award winning Social Enterprise and registered charity The Lighthouse Group. As part of their vision to transform the lives of young people, a new four storey Centre of excellence was built in Bradford. The building includes a sports hall, gymnasium, teaching spaces, offices, sub-let offices, an onsite cafe, and apartments that were all fully fitted out.

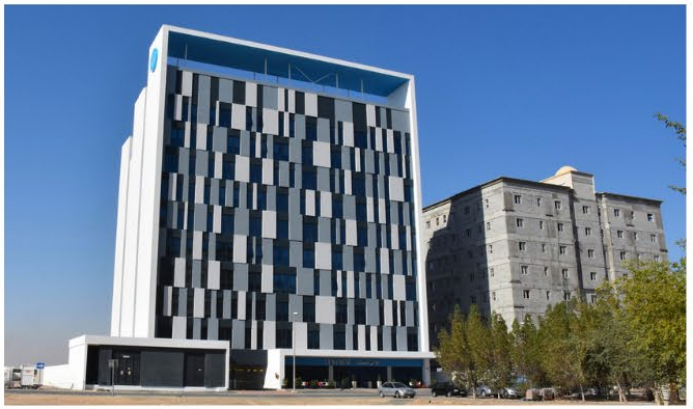
The innovative scheme takes the income generated by the rental spaces, and uses it to develop and provide alternative teaching programmes to children who have been excluded from school, or who are at a crisis point in their education.

Part of the design was to have a low carbon footprint which is achieved by providing renewable energy to the development, by wind turbines and solar panel hot water systems.

It won Corporate Social Responsibility Project of the Year at the 2010 Charity Times Awards, due to being “A unique partnership based on real sustainability and benefits”.

# PROJECT:
# Uninest, Dubai

> **Client:** Global Student Accommodation
> **Project Duration:** 2014 – 2015
> **Architect:** Stride Treglown Architects


As part of the Spectrum MEP Consortium and our Dubai partner office our engineers have undertaken the LEED assessment, detailed design and tender drawings for Stride Treglown Architects and their client Global Student Accommodation Group for this student accommodation development in Dubai.

We have also been engaged to undertake post contract site supervision duties.

Local approval has been received to develop a 424 bed scheme in Dubai, located within the Dubai Land Residences Complex.

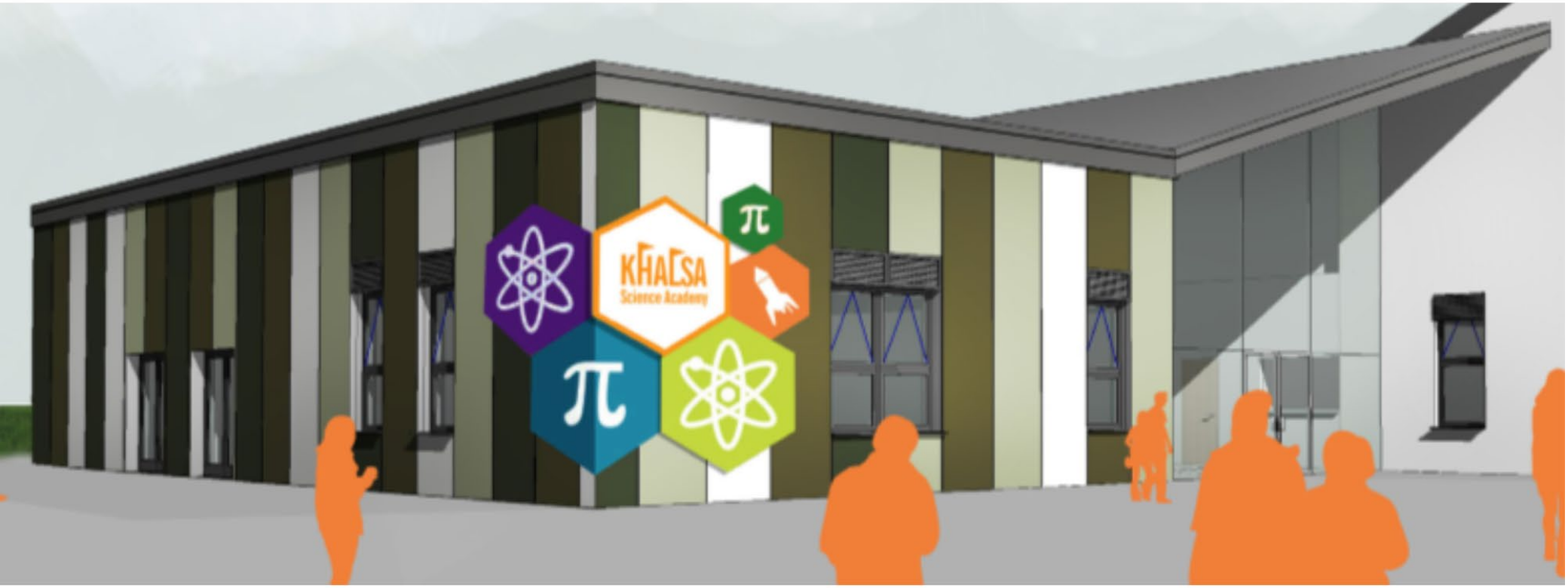
This development will represent GSA's and Stride Treglown's first student living scheme in the Emirates.

The building, called Uninest Dubai Land, is 10 storeys high and includes two basement levels providing car parking facilities.

Communal facilities include a swimming pool, quiet rooms, study areas, a coffee shop and two roof terraces.

# PROJECT:
# Khalsa Science Academy, Leeds

> **Client:** Khalsa Science Academy & EFA
> **Architect:** JM Architects
> **Project Value:** £22M
> **Project Duration:** 2015 – 2018




This project involved the adaption of an existing vacant education facility (a 1950s predominantly single storey accommodation) to create a new two form entry, 420 place primary school for children from foundation stage to key stage 2. The works include demolition of obsolete areas and major refurbishment of existing premises and a part new build two storey extension to increase the size of the premises to accommodate 420 pupils plus staff (2,072m2 GIFA), plus associated external works to the car park, landscaping, playground and sports field.

The works are intended to include but not limited to new roof coverings, masonry repairs, structural alteration, new glazing/curtain walling, replacement of M&E, new internal partitions, new joinery, new finishes, and a new build extension.

The premises are expected to be used outside of normal school hours for a wide range of community uses and consideration should be given to the provision of flexible spaces for a variety of uses and access arrangements outside of school hours to limit community access to specific parts of the school only.

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## MEP Design Solutions

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