

Thoughtful design
for Education

HLM
Architects

James McQueen Smith
Learning Hub



Claire Wakelin
Head of Education,
London Studio Director

Claire Wakelin

For over twenty years HLM Architects has been designing award winning education projects that respond to changes in student expectations, approaches to teaching and learning, and innovations in technology. Fundamental to all these projects is our belief that education architecture has the ability to inspire the next generation and nurture individuals to reach their full potential.

Our research and development initiatives across a range of education and built environment issues keeps us at the forefront of design thinking. It supports our ambition to create innovative, progressive learning environments where everyone can thrive. We have developed bespoke tools for stakeholder engagement, testing environmental performance and post occupancy evaluation. We are market leaders in off-site construction and have in-house sustainability advisors providing a comprehensive, design-led, integrated sustainability consultancy.

This knowledge and expertise is applied to all scales of projects, be those: new strategies for student living that support health and wellbeing; small scale learning spaces that embrace active learning approaches; bespoke designs for all types of special educational needs; zero carbon designs that help achieve sustainability targets; or modernising historic buildings and working with estates teams to shape the strategic development of campuses.

I am enormously proud of all the hard work, passion, and joy the education team brings to our projects.

Thoughtful design and the desire to make spaces that improve lives, sits at the heart of every discipline within HLM Architects.



Places of education that inspire and help transform the lives for people of all ages.

Our educational design specialists are driving research that is vital to understanding the current challenges facing the education sector.

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**Halls of Residence,
University of St Andrews, Fife**
Powell Hall and Whitehorn Hall provide over 700 modern student bedrooms and high quality common spaces that encourage interaction and engagement between students to enhance mental health and wellbeing.

Developing spaces that help all students engage.



Patrick Clark
Associate Director -
Specialist in Design
for New Learning
Pedagogies



Emma-Louise Hannigan
Associate - Specialist
in Design for New
Learning Spaces

HLM has been at the core of changing pedagogical design responding to new ways of teaching and learning that focus on student experience. We have invested in research to explore ideas that will benefit student outcomes and have developed a series of pilot projects with leading UK Universities to evaluate different environments and technologies that support evolving change in pedagogy. This is based on the taxonomy of learning where students first acquire knowledge, then comprehend and apply that knowledge to new situations, analysing and restructuring patterns to be able to make evidence-based judgements. These are all key skills needed in the modern workplace.

Our solutions for active learning areas encourage transition and interaction through student engagement and collaborative working. They articulate space to encourage confident, skilled and highly valued students equipped for a knowledge-based society.



James McCune Smith Learning Hub, University of Glasgow, Glasgow

The new learning and teaching hub will provide state of the art learning and teaching facilities for over 2,500 students in a highly sustainable BREEAM Excellent building that sits at the heart of a conservation area. The new learning and teaching hub, which forms the initial phase of this expansion programme, will create a signature gateway building at the heart of the expanded Campus based on active learning pedagogies.



Finalist - Scottish Design Awards 2021
- Architecture: Education Building
or Project

**Nominated - BD Architect of the
Year Awards 2021 - Public Building
Architect of the Year**

**Highly Commended - Education
Estates Awards 2021 - Inspiring
Learning Spaces**

**Winner - RICS Social Impact Awards
Scotland - Education Award**



**Pencoedre High School,
Barry, Wales**

New school providing modern facilities for up to 1,100 students including sixth form, with additional amenities to accommodate pupils with enhanced learning needs. The design incorporates state of the art music studios, science labs and a fitness suite, alongside a full-size sports hall that connects directly to the external sporting facilities which will be open to the local community outside of school hours.



“HLM’s design has maximised visual impact, created effective use of space matching the vision of all the business, university and local authority partners. Their team, working closely with all stakeholders, including English Heritage, helped to evolve the vision into reality.”

Nick Crew, Executive Principal, UTC



UTC Sheffield, Sheffield City College, Sheffield

Sheffield UTC offers a unique opportunity for education and business to come together and develop the skills that will be needed in the industry of the future by providing work-based learning for young people throughout the region. The combination of a remodelled historic mill building and a large new build block has created a visually striking, exemplary employer-led learning environment for creative and digital media and engineering.



Inclusive and supportive learning environments.



Catherine Ward
Associate - SEN Lead



Gareth Woodfin
SEN Design Specialist

For many students with special educational needs the educational environment presents a bewildering array of emotional, practical, social, communication and sensory challenges. Having designed or been technical advisors on over 2000 Special Educational Needs places we believe the lessons learnt from these projects should be applied to all educational buildings to provide greater inclusivity for all.

By understanding the impact of personal space on student movement and transitional points, the impact of colour and texture on the sensory experience, and the relationship between the internal and external environment, we can create sensory environments that support student wellbeing and create a sense of place. These principles are applied to all our education designs to create inclusive, supportive learning environments that consider the needs of all students.

Penarth Learning Community, Wales

Penarth Learning Community brings together spaces for special educational needs alongside those of a mainstream secondary school. This 23,500 sq m development in the Vale of Glamorgan creates a fully inclusive learning community that enables students and staff to thrive in this award winning, specialist facility.



Greenmead and Ronald Ross Schools, London

The design for Greenmead and Ronald Ross schools integrates a 72 place SEN Primary School for pupils with primarily physical disabilities and a 1FE mainstream primary school to foster inclusion whilst maintaining each school's need for identity and unique teaching and support spaces.



Illogan and Curnow Schools, Cornwall

The newly adapted and expanded Illogan Primary school facility for 242 pupils in Cornwall, aims to provide an enhanced contemporary learning environment and SEN facilities for the newly co-located Key Stage 1 and 2 pupils of the nearby Curnow school; improving upon the efficiencies at Illogan whilst enhancing internal teaching accommodation and delivering a more dynamic outdoor learning/play environment.



Sustainable projects to inspire future generations.



Karl Brown
Associate - Head of Sustainability



Russell Whitby
Associate - Specialist in Sustainable Design Strategies

On every project HLM consider the wider impact our designs have on climate, energy use, wellbeing and biodiversity. At concept stages our inhouse sustainability experts use orientation, climate and massing to optimise passive measures that reduce energy demands without relying only on specialist technology.

As designs develop we consider whole lifecycle costings and carbon emissions and prioritise sustainable, local materials with low embodied energy. To improve user health and wellbeing we incorporate biophilic design strategies internally and externally and create landscapes to increase biodiversity, alleviate flood risk and reduce the Urban Heat Island effect. Using our inhouse BREEAM Assessors and WELL Standard professionals and the bespoke stakeholder engagement and post occupancy evaluation tools we have developed we ensure sustainability and user wellbeing is at the heart of all our designs.



Nominated - BCIA Awards 2021 - Carbon Net Zero Initiative of the Year

Nominated - Offsite Awards 2021 - Best Use of Volumetric Technology

Dinton Activity Centre

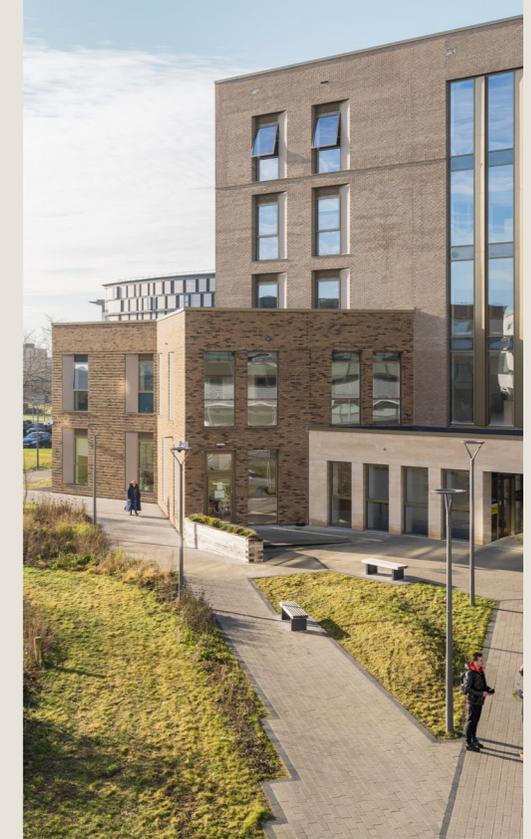
The new centre will be a modern, fit-for-purpose replacement of the current venue that places the community's needs at the front and centre. We have worked closely with the centre's leadership team and other key community stakeholders to provide a design that celebrates the nearby natural surroundings, while creating a sense of place and having a positive impact on future users.





Lincoln University Medical School, Lincoln

The new medical school will be the most sustainable building on the Lincoln University campus. Designed to meet the BREEAM Excellent environmental standard, it features photovoltaic panels to generate electricity for the laboratories as part of its aspiration to be a carbon neutral scheme. The £21m facility will deliver comprehensive teaching facilities, lecture theatres, clinical suites, a dedicated science library and mock consultation rooms, enabling medical students to explore the latest technology developments in healthcare. Woven through the building are social areas, group study and learning spaces to promote positive student interaction and wellbeing.



**Social Sciences Hub,
University of Sheffield, Sheffield**

In a competitive global educational marketplace Universities need to provide world-class facilities to attract the best students. The social sciences hub reflects a growing trend for centralising teaching spaces to enhance space utilisation through a low energy BREEAM Outstanding building that encourages collaboration and enhances the Faculty's reputation for excellence in teaching and research.

“This is a really significant development for us and we’re really pleased with the way we’ve been able to work with HLM to achieve a design which looks fantastic, provides superb teaching and learning space for our students and underpins our efforts to continue to develop a more sustainable campus.”

Keith Lilley, Director of Estate and Facilities Management, University of Sheffield

Re-envisioning existing estate



Lucy Plumridge
Associate Director –
Specialist in Estate
Rationalisation



Matthew Morrish
Heritage Architect

HLM understands the importance of delivering distinctive and expressive facilities that will attract and support the highest calibre of staff and students. Often this entails re-envisioning existing estates to respond to changing academic needs or to meet rising student expectations. Combining design flair with pragmatism we celebrate heritage assets, bringing buildings up to modern building and sustainability standards to enhance their lifespan and future flexibility.

Through strategic masterplans, HLM also develops frameworks for future campus development, looking at how existing facilities can generate value and act as catalysts for redevelopment. We analyse space usage to optimise estate rationalisation and create more cohesive facilities while ensuring integrated infrastructure and striking public realm.



King Edward VII School, Sheffield

The Grade 2* Listed school building by William Flockton needed a comprehensive refurbishment and extension to enable the continued use of the site and buildings as a school, maintaining its presence in the local community and providing a long term future use for this important Listed Building. Our approach has been praised by English Heritage as an example of best practice.



“The Arts Tower is a hugely significant building, but it required major investment to make it fit for today’s requirements. We’re delighted with the work that has been done to bring it up to date whilst preserving its unique characteristics”

Keith Lilley, Director of Estate and Facilities Management, University of Sheffield

Arts Tower, University of Sheffield, Sheffield

Restoration of the iconic 22 storey Grade II* listed building, Arts Tower has brought this remarkable building up-to-date while preserving its light, confident and optimistic 1960s design ethos. Our bespoke solutions have enhanced operational flexibility, while maintaining the key elements and simplicity of the original design.



HLM developed an unprecedented replacement of the Grade II* façade, retaining the narrow curtainwall proportions, while incorporating energy efficient glazing with integrated solar control.

London Institute of Healthcare Engineering, London

The London Institute of Healthcare Engineering will create a new, multi-disciplinary research and teaching laboratory facility embedded in St Thomas' Hospital - part of England's leading NHS Trust for patient recruitment to clinical studies. This dedicated space will allow academics, clinicians and medtech companies including SMEs and start-ups to co-locate in a shared space.



Living environments that define the University experience



Ross Barrett
Design Director



Andrew Nicholl
Specialist in Student Living Design

Student accommodation has an essential role to play in the student experience. Student living environments will define the University experience for many and will have a profound effect on feelings around wellbeing, mental health, and security.

HLM's goal is always to design and deliver a range of living accommodation that creates a diverse and vibrant student community; an enriching 'home from home' experience that offers value for money, is adaptable, accessible and promotes wellbeing and enables students to thrive both personally, socially and academically.

Our Thoughtful Design Toolkit underpins our work in this sector and allows us to work closely with students, academic institutions, and providers to ensure designs respond to student needs and expectations around the key themes of community, connection and adaptability.



Student Residences, University of St Andrews, St Andrews

HLM's finely crafted design solution for the new student residences at St. Andrews University (Powell & Whitehorn Hall) creates a striking addition to the unique landscape setting on Scotland's east coast, the graceful proportions and fine detailing sitting comfortably alongside mature tree specimens. In addition to seeking to achieve an elegant visual outcome and a positive contribution to the sense of community within the campus, both buildings also aim to deliver a new socially driven and environmentally sustainable model for student accommodation.



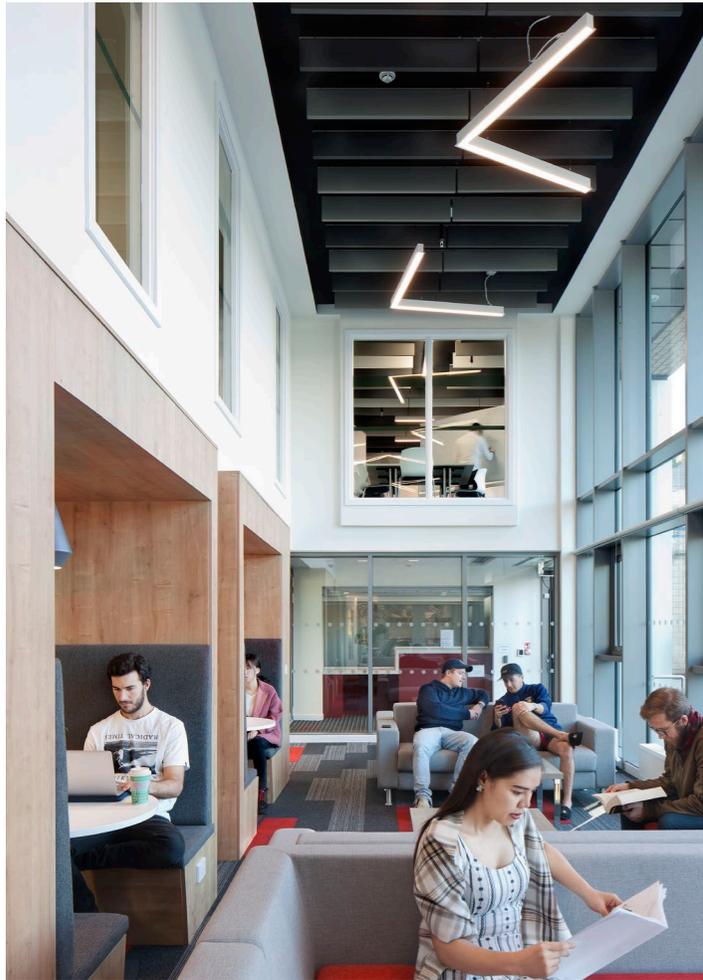
Nominated - BD Architect of the Year Awards 2021 - Social Impact Award

Shortlisted - RICS Social Impact Awards Scotland 2020 - Student Accommodation Category

Finalist - AJ Architecture Awards 2019 - Higher Education Category

“We’re absolutely delighted with both residences. When we look at it in comparison with previous projects, the mix of social space and bedrooms is excellent, the design of social space is in keeping with [the wider] environment, [and] you know you are in St Andrews because of the interior graphics [e.g. wallpaper]. It is well used, [and] well looked after, so clearly students appreciate the space.”

Operational Manager, University Residences and Business Support



GAP Site 3, St Andrews

Our proposed response to the site, seeks to develop a new high quality student residence which aims to promote the student experience with a focus on shared and common spaces and make a positive contribution to the campus area, creating a new active quad space to provide amenity and identity for the new building.



Maximising off-site construction benefits.



Anne Daw
Head of MMC Delivery



Alex Pullin
Specialist in MMC

Designing for manufacture and assembly requires architects to adopt a different approach from the outset, incorporating the design requirements inherent to the factory process into the DNA of the design alongside our expertise in education design and compliance. BIM is a catalyst for this integration with multidiscipline component collaboration to formulate a comprehensive Project Information Model with embedded attributes. The model is used to inform design, construction, and operation of the building. We have refined our design processes accordingly, imbedding a DfMA mindset into our approach while continuing to identify opportunities within the technical and programmatic constraints to create thoughtful, innovative designs that push the public understanding of what modern methods of construction can deliver.



Winner - Offsite Awards 2021 -
Education Project of the Year

Nominated - Offsite Awards 2021 -
BIM/Digital Construction Award

Nominated - Building Awards 2021 -
Offsite Project of the Year

Nominated - BD Architect of the Year
Awards 2021 - Social Impact Award

Addington School, Wokingham

Winner of the Education Project of the Year category at the Offsite Awards 2021, the design pushes the boundaries of off-site construction to provide highly serviced educational spaces, for post-16 pupils with complex learning difficulties in a dedicated, unique building with a low carbon footprint.

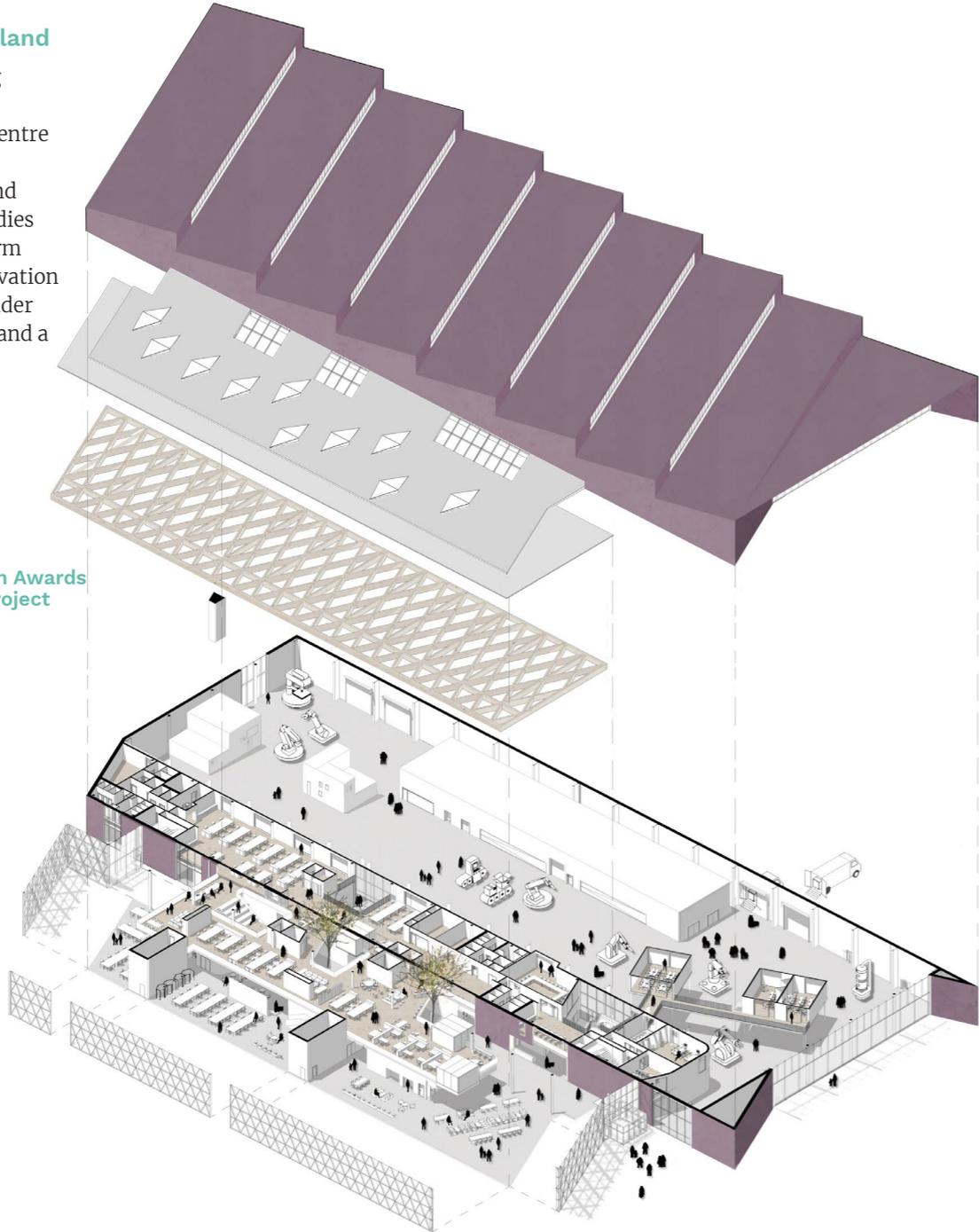


National Manufacturing Institute Scotland, Scotland

The National Manufacturing Institute Scotland is an industry-led international centre of manufacturing expertise where industry, academia and the public sector support bodies working together to transform skills, productivity and innovation making Scotland a global leader in advanced manufacturing and a magnet for investment.



Nominated - Scottish Design Awards 2020 - Future Building or Project



MMC1 Framework (with Reds10)

HLM as partners to Reds10 were successful in gaining a place on the £3bn DfE MMC Framework in 2019. The tendering process was highly competitive and required close collaboration with the Reds10 team to design an off-site solution that demonstrated to the DfE the quality and adaptability of the design whilst maximising the pre-manufactured value (PMV) to both minimise time and on-site disruption and increase the cost efficiency. A key strategy of the bid was to show that our solution can deliver the DfE baseline design without any derogations to either statutory or the DfE output specification requirements in all areas including, room adjacencies, the area schedule, daylighting and ventilation.

We have designed 7 new schools via the framework; 4 Primary schools and 3 SEN schools. Each design is an evolution of the framework solution to satisfy all the school specific requirements as well as the varied and contextual planning parameters for each school. The school engagement process led by HLM is all done virtually from start to sign-off of design proposals, including the planning consultation with officers and other stakeholders, using our consultation skills and digital tools. Our designs are fully compliant with the DfE's budget offering exceptional value for money, with layouts that optimise the off-site manufacture to provide the best educational settings for the school and embrace sustainability to achieve the new Spec 21 environmental standards.



Designing healthy landscapes



Izzy butcher
Senior Landscape Architect
Sheffield studio

HLM's landscape team design educational establishments that encourage interaction with nature - boosting wellbeing. We promote the integration of outdoor spaces into the masterplan, through early engagement with the design team to inform and enhance the design. Incorporating educational facilities where suitable such as sport pitches, playing fields, horticulture zones and social areas.

We are careful to consider the context of development, the needs of our client and wider user groups, and the potential impact on global climate change. Taking this holistic approach, we are able to deliver thoughtful solutions to complex problems using natural systems, while at the same time seeking to delight the students, staff and the local community who experience these places.

We are passionate about enhancing the heart of our communities, encouraging and enabling everyone to thrive through the places and spaces we design. Using the principles of healthy landscapes and sustainability to placemaking and public realm design has a dramatic and positive outcome for all.



The Concourse, University of Sheffield

This scheme was to regenerate a 1970's-designed public open space located at the centre of the University's campus, which has been long underused. The brief was to bring it back to life as a vibrant, social and meaningful space, and has included over 3000m sq of new paving, a dynamic lighting scheme, bespoke seating and seasonal interest through the planting scheme.



The Concourse, University of Sheffield

The Concourse for the University of Sheffield has been a showcase of this approach to public realm design, which has been demonstrated through the feedback from the University, users, and our own observations. The transformation of the area has brought vibrancy to the Campus. Which has also proven to be an invaluable space through the pandemic.

The design turned an underutilised area and brought life back into the heart of the campus, as per the original 1970's design intended. We worked with lighting designers at Arup, to ensure that the daytime offer also continued into the evening and the campus provided a safe and thriving environment for students and staff.

The scheme had underlying sustainability principles; using bespoke off-site construct for seating and raised planters, locally manufactured suppliers, and introducing waste recycling into the public realm, which has now been rolled out across the campus.

The planting was an integral part of the landscape design and consultation was undertaken on the species selection with the Landscape Architecture department and the Estates team, to ensure the planting was aligned with the whole campus approach to greening and biodiversity goals.



Euler Academy, Hull

The Euler Academy scheme consists of the construction of a 56 place Hybrid Special School co-educational establishment, for pupils ages 5-11 years old in Hull.

Working collaboratively with Watson Batty Architects, our landscape team developed a scheme that integrates the building function with the landscape seamlessly providing a diverse and engaging space for the children to learn in.

Cohesive and combined design

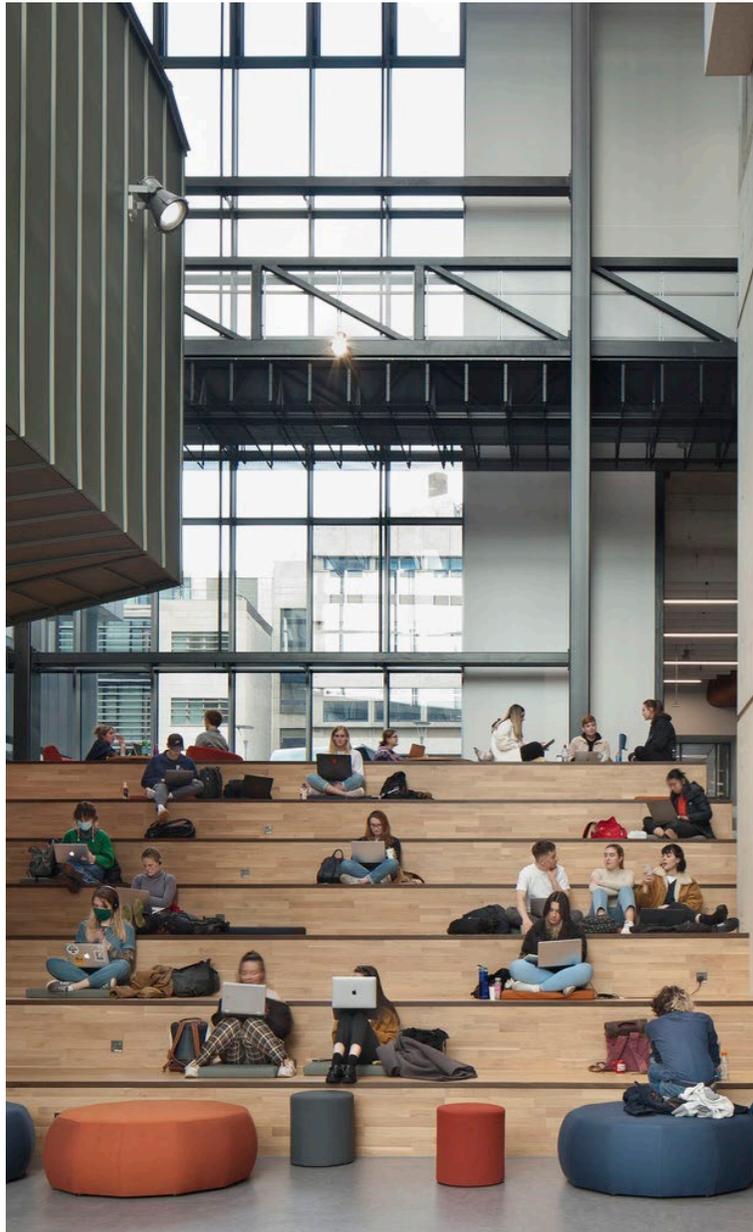


Amy Hipwell
Interior Designer
Sheffield studio

All our interior design schemes begin with an understanding of the client, the users and their needs and aspirations for the project. Through this we bring a tailored, focused approach to the design process and resulting interior scheme. From the early concept stages we develop the design through a series of interior workshops, gaining an understanding of the users' needs and depending on the project, the existing spaces. We create sketches, 3D models, walk-throughs, samples and mock ups to convey our ideas, we listen to the feedback and encourage a collaborative approach. We stay true to the brief but understand the need that sometimes this needs to be challenged and re-visit ideas if this is for the benefit of the project.

Our team work closely with the architects, landscape and sustainability designers to create a cohesive and combined design. Understanding the wider picture in terms of external materials, space, light, heat, acoustics and access to outside spaces is fundamental to providing an inspiring, enjoyable and comfortable place to learn.



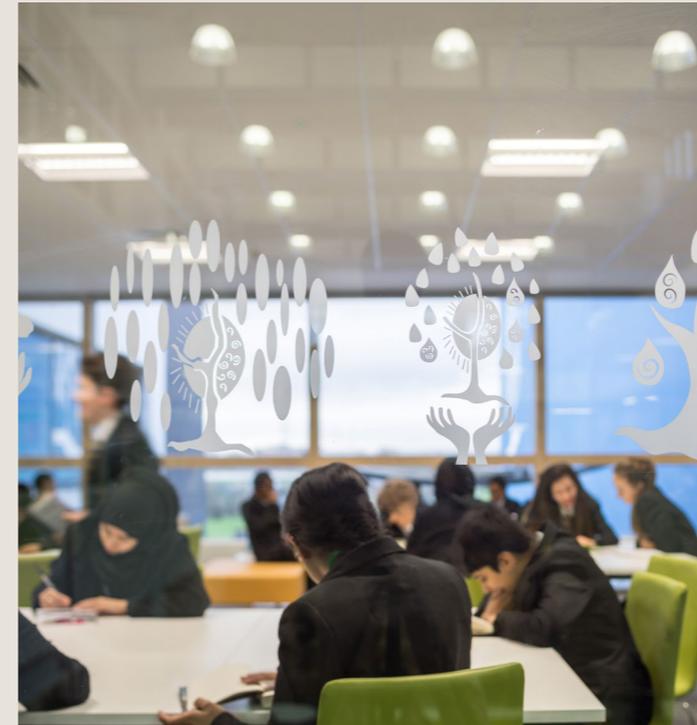


James McCune Smith Learning Hub, Glasgow

Fronting onto University Avenue, the new hub creates a signature gateway building that sits at the heart of a conservation area. The site was pivotal in the connectivity between the existing Gilmorehill campus and the Western campus expansion.

Rust coloured metal panel cladding inspired by Glasgow's maritime heritage/ shipbuilding encapsulates the building. The new building reflects the local Glaswegian architecture of strong, carved textures but in a new, modern way.

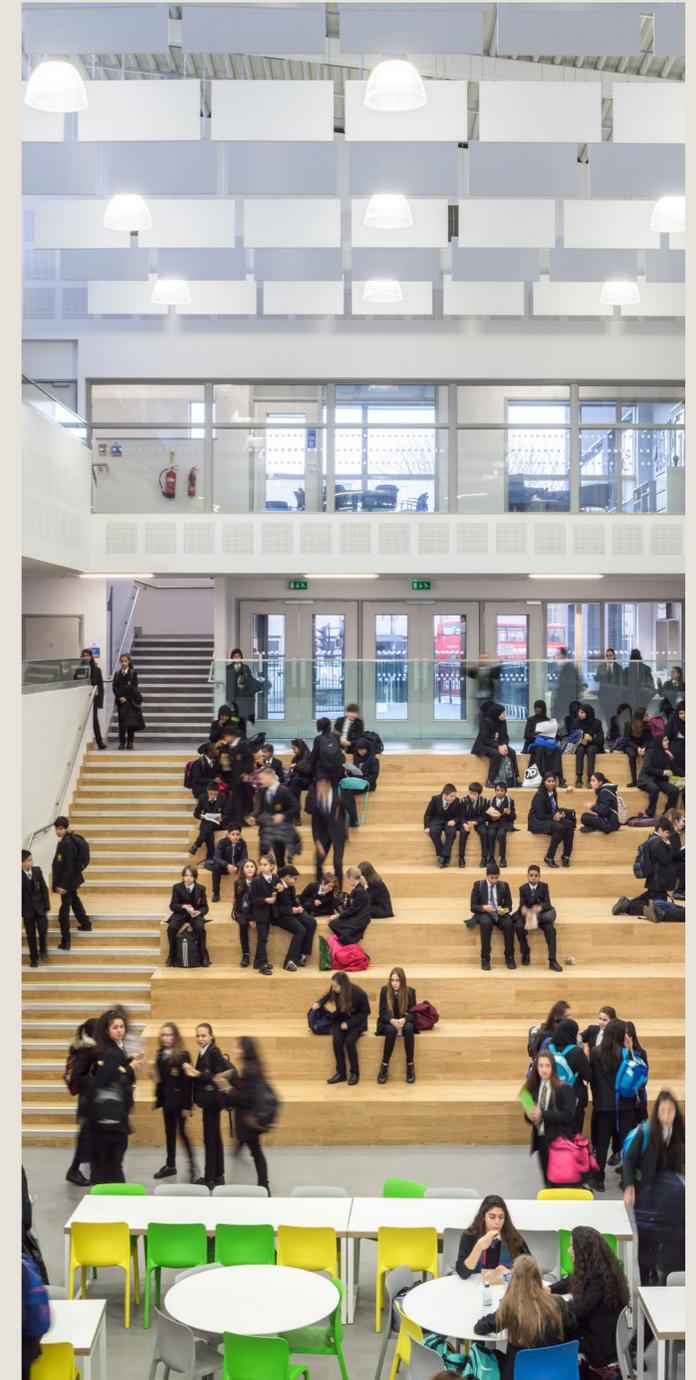
The interior design also has a unique and distinct character – one that reflects the design philosophy of the building... People, Place, Purpose.



Willowfield Humanities College, London

The new Willowfield Humanities College is a 900 place secondary school with 6th form entry. The brief for the new school was for a light and airy building with a clear identity that would encourage civic pride in learning, help local community regeneration and celebrate the school ethos and history.

HLM's design response is a building made up of two linear teaching wings, both orientated on an East West axis with a central atrium. One wing accommodates the highly serviced areas including the main hall and support spaces and acts as an acoustic buffer to the adjacent railway line. The second naturally ventilated south facing wing houses the general teaching. These two wings are connected by a central hub which forms the 'heart' of the school and focus for community engagement accommodating the main entrance, multi-functional terracing and dining hall area.



About Us



Delivering

World-class architecture with a social purpose

We operate a

One team culture

Seven Sectors

- Asset & Workplace
- Defence
- Education
- Healthcare
- Hospitality, Leisure & Culture
- Justice & Emergency Services
- Living & Communities

Employing over

170 people

Enabling us to

Collaborate across

Five Disciplines

- Architecture
- Interior Architecture
- Landscape Architecture
- Masterplanning
- Environmental Sustainability

Since

1964

Five Studios

- Belfast
- Cardiff
- Glasgow
- London
- Sheffield

Our Clients

Abu Dhabi Education Council
 AECOM
 Aldar Academies
 American Community School
 Arcadis
 Archdiocese of Cardiff
 BAM Construction
 Barnsley Metropolitan Borough Council
 Bodmin College
 Boole Technology Park
 Bouygues
 Caledonian Modular
 Charterhouse
 City of Plymouth
 Cornwall Council
 Council for Catholic Maintained Schools
 De Montfort University
 Department for Education and Skills
 East Riding Of Yorkshire Council
 Education Funding Agency
 Elliott
 Forth Valley College
 G F Tomlinson Building
 GallifordTry
 GRAHAM Construction
 Hall Construction Group Ltd
 Interserve
 ISG
 Isle of Wight Council
 Keele University
 Kier
 King's College London
 Lady Manners School

Lancaster University
 Lincoln Science & Innovation Park
 London Borough of Brent Council
 London Borough of Croydon
 London Borough of Lambeth
 London Borough of Lewisham
 London Borough of Tower Hamlets
 McAvoy Group
 Meraas Healthcare
 Millfield School
 Morgan Sindall
 Mott MacDonald
 Mubadala
 Multiplex Construction Europe Limited
 Newport City Council
 Nottingham Trent University
 Plymouth College of Art
 Plymouth University
 Premier Modular
 REDS10
 Ridge Property and Construction Consultants
 Rotherham Metropolitan Borough Council
 Royal Borough of Windsor and Maidenhead
 RSAW
 Saltash Community School
 Serco
 Sheffield City Council
 Sheffield Hallam University
 Skanska
 Slough Borough Council
 Sodexo
 Southern Regional College
 St George's University of London

St Mary's University
 Surrey County Council
 Teesside University
 Torquay Girls Grammar School
 TTPM
 Univeristy of Glasgow
 University College London
 University of Edinburgh
 University of Exeter
 University of Glasgow
 University of Gloucestershire
 University of Hull
 University of Lincoln
 University of Sheffield
 University of St. Andrews
 University of Strathclyde
 University of Surrey
 UTC Sheffield
 Vale of Glamorgan Council
 Vinci Construction
 Wakefield Grammer School Foundation
 Wandsworth Council
 Watts Group Plc
 Welsh Government
 Westminster Kingsway College
 Wokingham Borough Council
 Woodhead Construction
 WYG Group

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Thoughtful design



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