

Thoughtful design
for Education



HLM
Architects



Lucy Plumridge
Head of Education

For over twenty years HLM Architects has been designing award winning education projects that respond to changes in student expectations, changes in approaches to teaching and changes in technology. Fundamental to all these projects is our belief that education architecture has the ability to inspire the next generation, nurture individuals and be the backdrop to life long experiences.

Our research and thought leadership helps us to inform briefs, challenge expectations and fully realise our clients visions, creating innovative, forward looking learning environments. To do this we have developed bespoke tools for stakeholder engagement 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 from new strategies for student living that support health and wellbeing to small scale learning spaces that embrace active learning approaches, bespoke designs for all types of special educational needs to zero carbon designs that help achieve sustainability targets, 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 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 400 modern student bedrooms and high quality common spaces that encourage interaction and engagement between students to enhance mental health and wellbeing.

Inclusive Design

Inclusive and supportive learning environments.



Gareth Woodfin
Special Educational
Needs Design Specialist
Cardiff studio

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.



Inclusive Design

**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.



Embedded Sustainability

Sustainable projects to inspire future generations.



Karl Brown
Specialist in Sustainable Design Strategies
Sheffield studio

On every project we consider the wider impact our designs have on climate, energy use, wellbeing and biodiversity. At concept stages our in-house sustainability experts assess orientation, climate, siting and passive measures to reduce energy demand, without relying only on specialist technology. As designs develop, we consider whole-life carbon emissions and prioritise sustainable, local materials with low embodied energy.

To improve user health and wellbeing we consider biophilic design strategies internally and externally, using landscapes to increase biodiversity, alleviate flood risk and reduce the Urban Heat Island effect.

To ensure we continually improve our designs, we have developed stakeholder engagement and post occupancy evaluation tools to assess user wellbeing and feedback their experiences into future designs. We also have BREEAM Assessors and WELL Standard professionals to optimise the sustainability of our designs.



Pen Rhos School, Wales

The scheme is an exemplar for how affordable, sustainable, inclusive new school buildings can be developed on challenging sites and act as a catalyst for regeneration. Working with children and staff to design spaces and select furniture HLM has created a truly 21st century multi-agency collaborative learning environment.



Embedded
Sustainability

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.

Embedded
Sustainability

“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

Learning Pedagogies

Developing spaces that help all students engage.



Patrick Clark
Specialist in Design
for New Learning
Pedagogies
Glasgow studio

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.



Heart of the Campus, Sheffield Hallam University, Sheffield

The Heart of the Campus creates a student-centred learning environment at the centre of the Collegiate campus that reflects Sheffield Hallam University's ethos and enhances teaching and learning through active learning approaches including TEAL spaces and social learning.



Learning Pedagogies

Jenner Wing, St George's University, London

The refurbishment of the Jenner Wing library creates reflective, creative and interactive learning spaces for the department of medicine, biomedical sciences and health and social care sciences. Spaces were reconfigured to support personalised learning and flexible resource storage, retrieval and solutions were developed to adapt to continually changing usage.



“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

Learning Pedagogies



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.



Maximising off-site
construction benefits.



Anne Daw
Specialist in Modern
Methods of Construction
Sheffield studio

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 multi-discipline component coordination from inception to formulate a comprehensive Project Information Model with embedded attributes. The model is used to inform both the construction and operation of the building.

We have refined our design processes accordingly, looking at ways to push the design within the margins of the technical and programmatic constraints to create thoughtful, innovative designs that push the public understanding of what modern methods of construction can deliver.

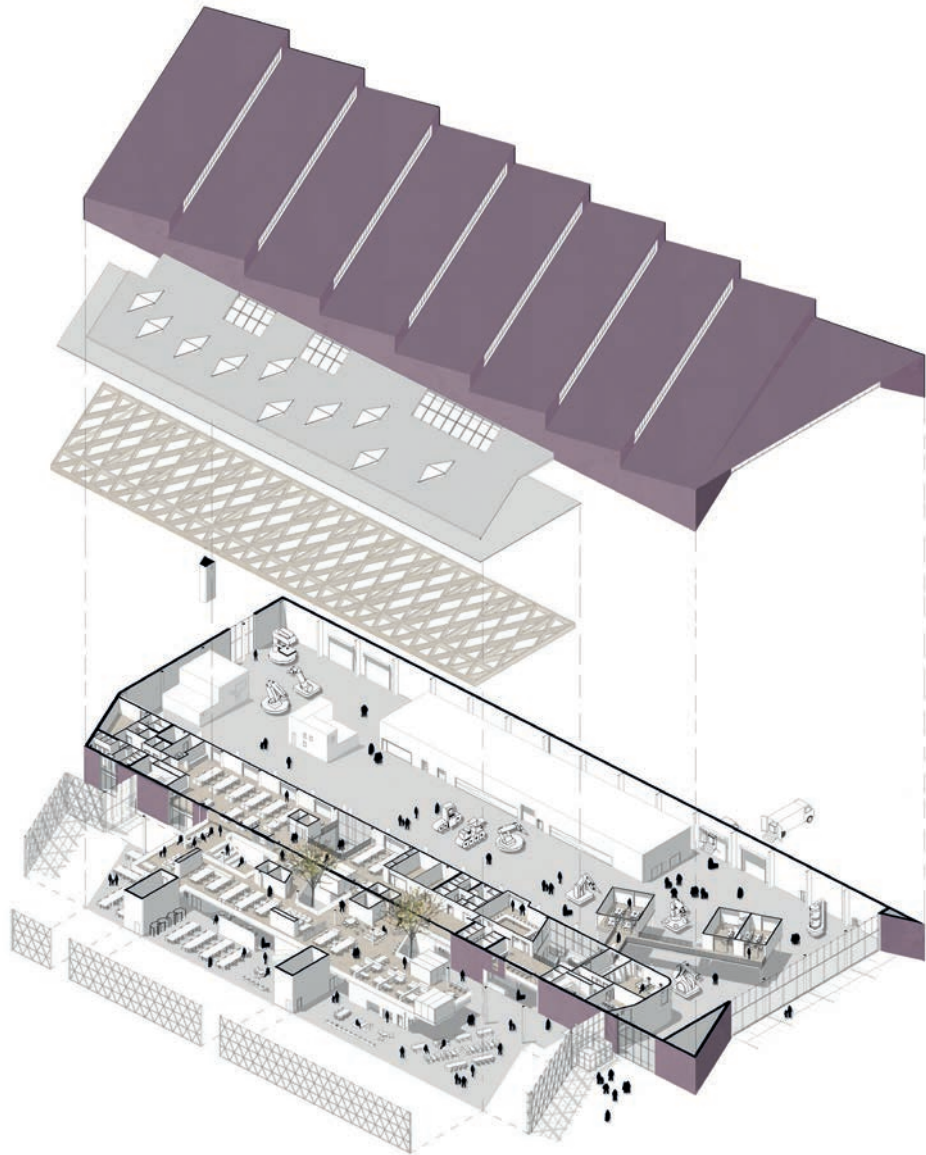


Kensington Avenue Primary
School, London

This volumetric modular expansion of an existing primary school allowed the project to be installed and finished over an eight week summer break to minimise disruption to the school. The project was so successful, it was used as a prototype and benchmark for off-site construction.

**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.



**Modern Methods
of Construction**



“We’ve come so far and the building looks great. It’s been such an exciting project and the kids absolutely love it here.”

Mr Lantos, Head Teacher Preston Manor Upper School

**Preston Manor Upper
School, London**

This award winning 2FE primary school uses cross laminated timber construction to achieve significant environmental benefits, reduced installation time and an overall cost savings. The design demonstrates what can be achieved in a tight timescale and shows that the architecture of the building, as well as the excellent environmental sustainability, need not suffer during a fast-track process.



Transforming Estates

Attracting the highest calibre of students.



Claire Wakelin
Specialist in
Transforming Estates
London studio

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

Transforming Estates

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.



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.



**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.

Transforming Estates



About Us

Delivering
World-class
architecture
with a social
purpose

Employing over
170
people

Since
1964

We operate a
One team culture

Enabling us to
Collaborate across

Seven Sectors

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

Five Disciplines

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

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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