



**London
South Bank
University**

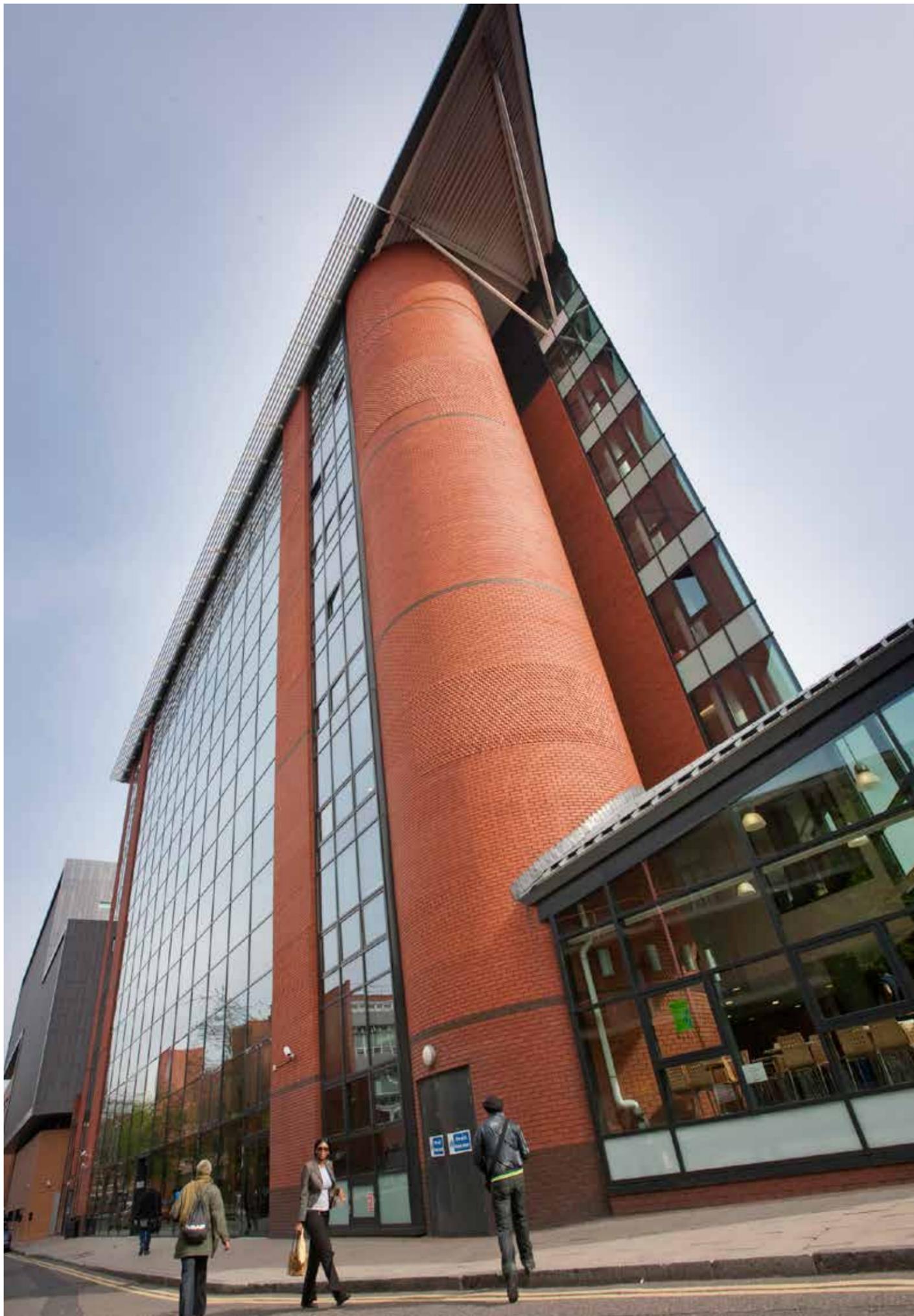
EST 1892

**School of The
Built Environment
and Architecture**

Welcome to

The School of The Built Environment and Architecture

Become what you want to be

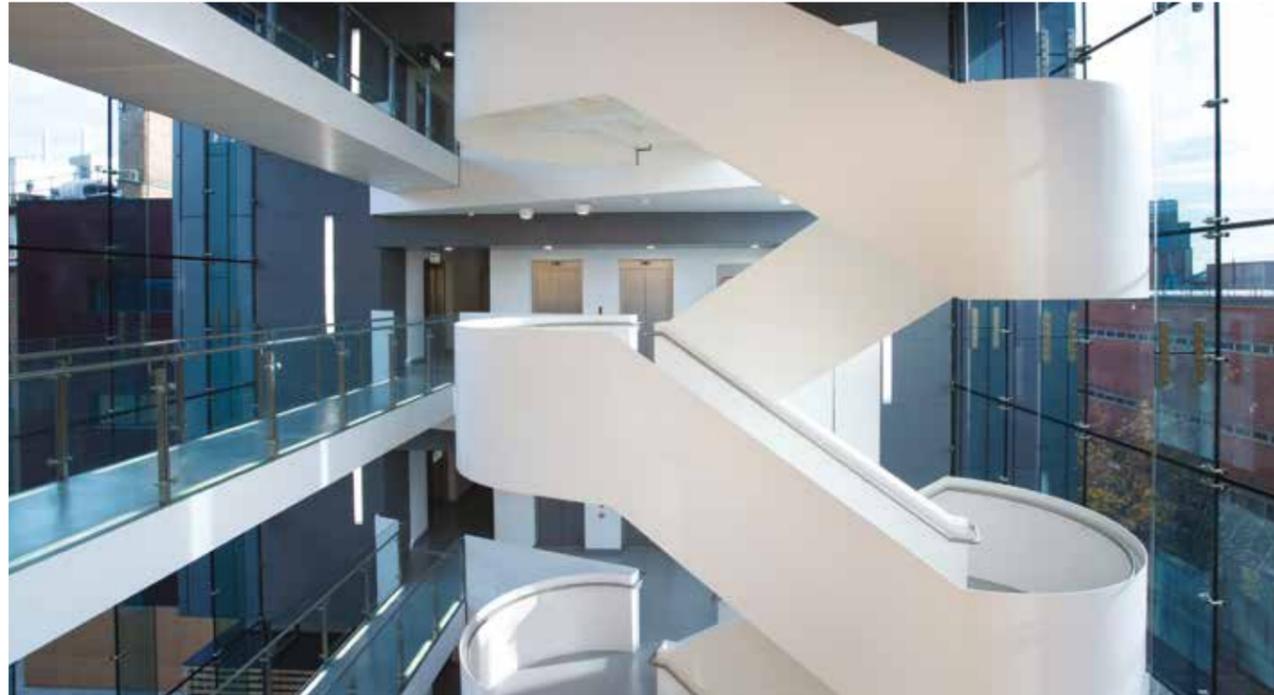


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Welcome to

The School of The Built Environment and Architecture



Professor Charles Egbu, Dean

Our vision is to be a leading provider of Built Environment and Architecture degrees, recognising the potential and talent in our students and our people and, in collaboration with our partners, producing graduates and research that have real world impact; inspiring and benefiting our local and global communities and connecting to the agendas of today and tomorrow. Over the years, we have developed into one of the best schools in the UK built environment sector, where a significant number of the workforce and decision makers are LSBU graduates.

We offer some of the top courses in London in areas such as architecture, building services, civil engineering, transport, energy, construction management, property and real estate, and surveying. All our courses are closely linked with industry and accredited by the relevant professional institutions to the highest possible level.

Our teaching excellence drives student success, for example in 2015 Nathan Clothier, BSc (Hons) Construction Management, was awarded the prestigious David E Tong Cup, from the Worshipful Company of Constructors and Adam James, BSc (Hons) Architectural Technology, received the Chartered Institute of Architectural Technologists Award for Outstanding Student in Architectural Technology – and the Chartered Institute of Building Queen Elizabeth II Jubilee fund scholarship.

The breadth and quality of our industry-focused applied research and enterprise activities are widely acknowledged. As a top 20 UK university for engineering research, we receive millions of pounds in research grants every year. Our highly-qualified staff carry out in-depth research across the core themes of infrastructure and the built environment.

It's important to us that our research is highly relevant to our teaching. That's why our academic researchers are at the frontline of knowledge, posing questions and making discoveries that drive innovation and growth. Businesses and organisations come to us for our resources and expertise, tapping into our technological know-how through knowledge transfer partnerships. For example, we're currently developing, testing and implementing cooling strategies for London Underground.

We enjoy well-established links with other universities, government departments and institutions from Europe, Asia, the Middle East and the developing world. These contacts help create a diverse student environment full of challenging ideas and useful exchanges of information.

This brochure is designed to give you an insight into the kind of activities happening at the School, the facilities on offer, and how you could benefit as a student or partner with the School. I hope you enjoy reading it.

Professor Charles Egbu, Dean

1892

Borough Polytechnic Institute founded, which offered practical courses in brickwork and joinery.

1970

Incorporated a range of specialist organisations, most notably the Brixton School of Building and the National College for Heating, Ventilating, Refrigeration and Fan Engineering.

MID-1970s

The Polytechnic was the only higher education institution in Europe to offer courses spanning every profession within the construction industry, including architecture, town planning, civil engineering and estate management.

1992

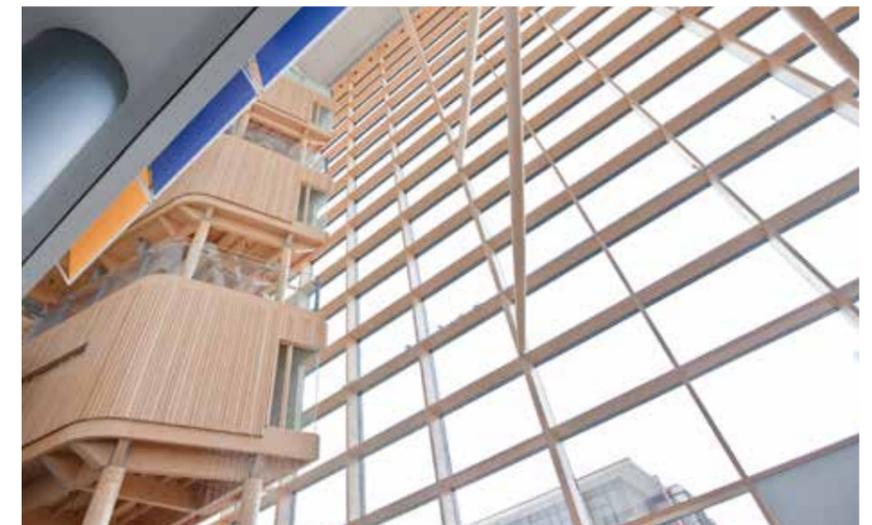
University status granted.

2010

The opening of Centre for Efficient and Renewable Energy in Buildings at the top of the K2 building confirmed our position at the forefront of sustainable building technologies.

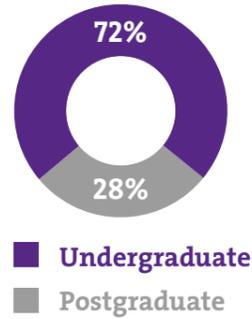
2014

The School of The Built Environment and Architecture becomes one of seven new Schools at LSBU.



The School at a glance

 **2375**
Total students



 **16**
Undergraduate courses

 **19**
Postgraduate courses

 **1**st institution in the country to offer RICS accredited courses

100 % of our taught degree programmes carry professional accreditation

 **LSBU educates 60%** of building services engineers

 Largest building school in the UK

 **632**
Graduates in 2015

Student's view

Lee Tobin, BEng Building Services Engineering



"My BTEC confirmed that a career in building services engineering was the right direction for me," says Lee. "I took a year out between finishing the course and starting at university, but there was never any doubt for me

about where I wanted to study – LSBU."

Lee's determination to study at LSBU was a combination of various factors. "Lots of people at my college talked about LSBU as a great place to study for a degree," he says, "and it was within commuting distance of my family home. Most importantly though, LSBU has a great reputation within the industry."

Now into his second year on the BEng (Hons) Building Services Engineering, Lee can see why LSBU

is held in such high regard. "The lecturing staff are internationally recognised, so I know that my degree will carry a lot of weight when I graduate," he says.

"The lecturers have been extremely supportive and helpful, and they have put a lot of effort into sourcing opportunities for students on the course."

It's those opportunities that Lee is hoping to make the most of as he pursues his dream of moving into engineering consultancy. "Many companies contact LSBU looking for graduates or work placement students, which makes it much easier to enter the industry," he says. "There are lots of chances to make contacts and network – in fact, I had a one-week plant room tour with a maintenance department in a large building that came about thanks to a contact I made through group study on the course."

High quality teaching

The majority of our courses are either accredited or developed in partnership with professional bodies, and our academic staff are often industry professionals who continue to foster working relationships in their respective fields.

LSBU holds the highest possible rating for teaching from the independent Quality Assurance Association (QAA) and we have twice been awarded the Happold Brilliant Award by CIBSE. Staff bring their expertise and experience into the classroom and practical modules, case studies and learning techniques help bring this to life. We are constantly looking for ways to innovate and improve our teaching, and courses are taught in a supportive environment focused on student success.

We regularly invite guest lecturers and host events such as the 2016 Urban Wood debate, which brought together academics and practitioners to discuss the use of timber in architecture.

Accreditations

Many employers actively seek graduates holding accredited degrees. Accreditations are a mark of quality assurance and professional relevance. Where appropriate, our courses are accredited by the following bodies:



Case study

Federico Rossi, Course Leader, Digital Architecture and Robotic Construction

Federico is responsible for running the Digital Architecture and Robotics lab (DARLab). His research here is focused on digital fabrication, automatic construction and 3D printing.

"I've worked for larger architectural firms including SOM and Zaha Hadid, and worked on large-scale projects like the museum of Seoul. From my professional experience I have gained good contacts, so we're able to bring outside experts to talk about research, design and engineering, as well as to hold workshops.

"We also partner with industry to identify needs to develop specific research areas for students, for example we are currently partnering with SCM group to investigate use of timber construction in their projects.

"The line between research and industry is very thin in architecture, so I think it's fantastic to be part of a multi-disciplinary school where we have a wealth of building knowledge. There's a lot of different skills and expertise than can be brought together, and a range of facilities too."

Research with real world impact

Research at LSBU is highly applied. Much is relevant to our teaching and we bring research-informed content to our students through our course portfolio. We are a top modern university in London for research 'impact' (reach and significance), with 73% of our research awarded the two highest quality ratings of 4* or 3* by the Research Excellence Framework (REF) 2014.

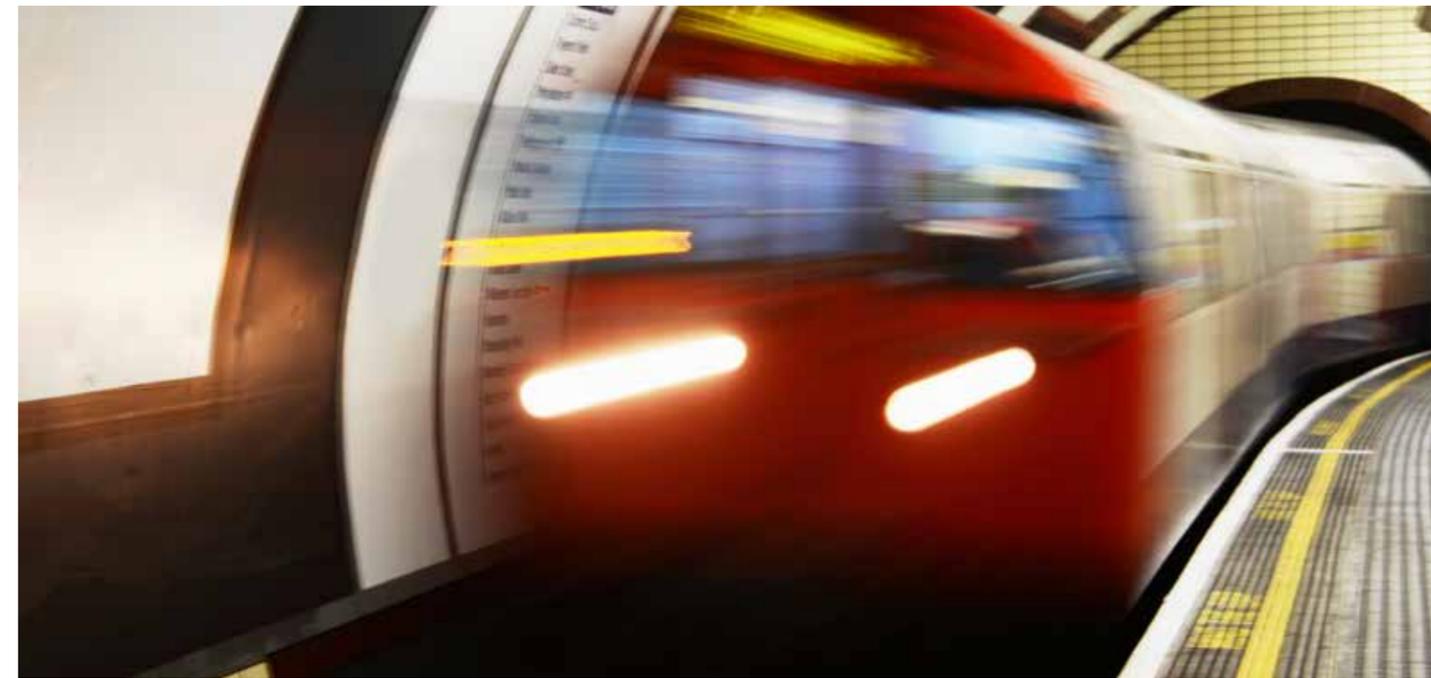
The School of The Built Environment and Architecture has an exciting and vibrant research community engaged in advanced, cutting-edge, and impactful research, much of which also involves national and international partners from academia, industry, and the third sector.

Our research is primarily carried out around four themes:

- Construction management, economics and integrated delivery
- Civil and building services engineering
- Architecture and digital fabrication
- Sustainability and resilient infrastructure and communities

It is also anchored around six fundamental pillars, which are quality and integrity; impact; focus and performance; people and resources; communication and reputation; and partnership and engagements.

Our research is wide-ranging, but underlying all of it is the goal of creating new knowledge that has a practical purpose. It is also aimed at transforming the quality of life for society whilst ensuring the well-being of future generations through the provision of better and more sustainable futures. For example, recently we've secured £1.7 million of funding to investigate the potential of a promising new technology – cryogenic energy storage (CES) – to solve the problem of how to store excess renewable energy.



Research in action

How London Underground Limited turned to LSBU to find a cost-effective cooling solution that could save millions

Keeping underground tube stations cool is a significant engineering challenge, and one that costs London Underground Limited millions of pounds a year. With that in mind, they turned to a team of LSBU researchers to see if there were ways to cool underground stations in a more energy efficient way. Led by Professor Graham Maidment, the team brought its considerable expertise to the challenge.

The research team looked into using low-carbon ground source geothermal cooling to reduce the temperature of underground stations, developing novel cooling methods with genuine potential. In particular, they made use of existing infrastructures, keeping costs down and minimising the amount of disruption that would be needed to install them.

Many underground stations are below the water table and need to constantly pump water out to avoid being flooded. LSBU's ingenious proposal was to transfer the heat from the air into water already being pumped out of the station. The newly-cooled air could then be circulated back into the station to lower the temperature, as warmed water was discharged into the sewer system.

As a result, London Underground Limited incorporated LSBU's cooling concept into its £500 million plans for the Victoria Line upgrade. Most of its current cooling installations are based on the cooling concepts proposed by the research, and a similar scheme at Green Park Station has already been recognised for its environmental impact.

London Underground Limited incorporated LSBU's cooling concept into its £500 million plans for the Victoria Line upgrade. Most of its current cooling installations are based on the cooling concepts proposed by the research.

London's enterprising university

By applying our research and ensuring our courses have a vocational focus, we remain firmly rooted in the community around us. By empowering our students through enterprise opportunities we help them develop into members of the business community. The School of The Built Environment is a committed part of this – our Knowledge Transfer Partnerships and research help build knowledge and provide proven solutions to business.

Student opportunity

LSBU offers a number of ways for students to get involved in enterprise. Our Student Entrepreneurship Support Service is a one-stop shop for advice about starting up a business and keeping it going – available to students before and after graduating. We also organise enterprise internships, giving students the chance to get involved in the workings of a small start-up. We run the Spark Scheme, which offers students £500 of funding, office space, mentoring, guidance and the chance to bid for further funding. We also offer a 12-month Graduate Entrepreneur Scheme, which

offers graduates funding, office space, training and specialist advice.

LSBU has partnered with university start-up specialists Start Up Republic to launch LSBU Rocket, the UK's first student business accelerator scheme designed and delivered in collaboration with leading figures in the start-up community. The scheme is providing £15,000 worth of start-up support to seven LSBU student and graduate businesses accepted onto the programme.



44 LSBU graduate start-ups last year



220 business ideas supported in 2014-15



Over 4,000 students engaged in enterprise activities



Enterprise in action

Adding value in the affordable housing sector

LSBU's research Centre for Sustainability and Resilient Infrastructure and Communities (SaRIC) has partnered with Local Authorities and Housing Associations to develop a life cycle costing approach when it comes to selecting building components in the affordable housing sector.

The Government has asked UK housing associations to reduce costs, placing pressure on the housing sector to cut costs without compromising on quality. Despite improvements in the procurement of maintenance services, maintenance costs continue to rise. By improving the life cycle of components the sector can reduce these costs, as well as reduce the number of maintenance call-outs. Achieving this has added benefits too; it means less intrusion for residents which improves satisfaction ratings, and it will also help to minimise associations' carbon footprint, both of which are important KPIs for the sector.

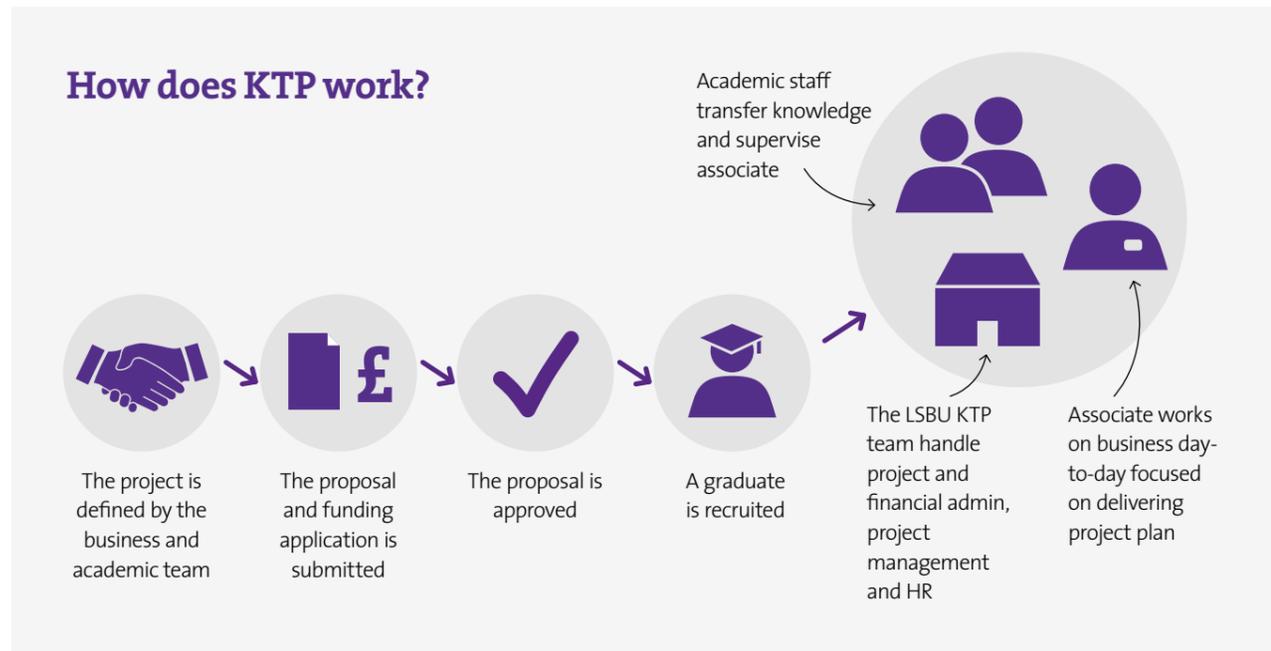
The project aims at establishing a robust business case for investing in life cycle components in order to

provide better value for money for affordable housing providers over a 30 year cycle. It will also consider wider issues such as resident and landlord satisfaction, carbon savings, installation costs and the role of the supply chain.

"We believe that, the purchase costs should not be the only importance factor in building component procurement decisions but also the overall life cycle costs," says Dr Alex Opoku, Director of SaRIC and project leader. "The research project has the potential to make significant changes to the culture of the housing sector procurement processes and the way the sector makes choices about the development and maintenance of new and existing units."

Several Housing Associations and Local Authorities have signed up to be part of the pilot study and are now at various stages of the project. Organisations working with LSBU include Barnet Homes, London Borough of Barking and Dagenham, Basildon Council, Genesis Housing and Peabody.

Knowledge Transfer Partnerships



LSBU is one of the UK’s leading KT providers and won the collaborative Innovation Excellence Award at the London Knowledge Transfer Awards. We are also among a handful of universities that have been commended by the Higher Education Funding Council for England (HEFCE) for our KT work.

Our KTP team can help define your strategic challenge, and then find the right academic expertise for your project from across the University.

KTPs are part Government-funded (up to 67% of the costs) with your organisation investing the final third. Our KTP team guides you through the whole process: advising on the grant application process and proposal writing. The team also manages the administration of the project throughout the KTP lifecycle.

Each KTP project has an academic supervisor who supports and mentors the KTP associate to deliver the project for your company.



KTP at work

LSBU contributes to London Bridge regeneration

Commuters may be well aware of the upgrade to the UK’s fourth-busiest station, but the Victorian viaduct to the east of London Bridge is also being redeveloped, providing a prime opportunity to ensure a long-term regeneration proposal for the area is put in place. Last year Team London Bridge reached out to LSBU’s built environment academics to progress their ideas for the station’s hinterland.

“Team London Bridge’s underlying concept for the viaduct is for a cluster of arts, crafts and technology businesses which promote an ethos of ‘making, selling and educating’,” explains LSBU’s Dr Mahtab Farshchi, lead academic on the development partnership.

“With a focus on start-ups, independents and social enterprise, they contacted us to investigate how the creation of a vibrant destination in a sensitive area would be received by the local community and the stakeholders in general.”

Dr Farshchi and LSBU’s Enterprise team put together a knowledge transfer project centred on a year-long project delivered by a specially-recruited associate – in this case, LSBU alumnus Henry Johnstone. The project tested the feasibility of the proposal to encourage a core area of business for arts, crafts and technology firms.

Under regular supervision and through meetings with both Dr Farshchi and Team London Bridge, Henry delivered the goals of the project: firstly by reviewing relevant theories and subsequently applying lessons learnt from the theory into practice to deal with the range of urban regeneration problems faced by local businesses and the community.

“From a student’s perspective it was a fantastic initiative. Knowledge transfer projects provide a great route into industry with a high degree of responsibility and ownership over your own project.”

Henry Johnstone, LSBU graduate

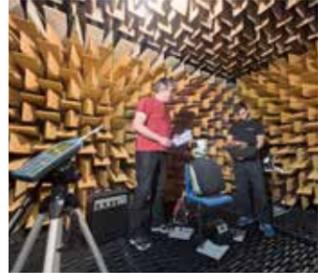
“The success and benefits of the partnership have exceeded the expectations of everyone involved,” says Dr Farshchi. “It has improved Team London Bridge’s engagement with the local business and residential community, and developed their working relationship with Network Rail.”

“We would recommend the Knowledge Transfer Collaboration programme to other businesses. It’s an excellent programme for delivering business objectives by means of rigorous analysis and research.”

Shane Clarke, Environmental Programme Manager at Team London Bridge

Outstanding facilities

Students use industry-standard equipment in the only laboratory/workshop complex of this quality in London. Our facilities can also be leased for commercial research and testing or project work.



Anechoic and reverberation chambers

LSBU is home to the only anechoic and reverberation chambers in London – key pieces of equipment in acoustic

and environment testing work. Both chambers can be used for simulating idealised acoustic conditions for researching a number of noise phenomena; sound power determination, binaural recordings, measuring source directivity, the testing of hearing protectors and to demonstrate fundamental acoustic principles.

Contact:

Dr Stephen Dance, Academic Lead
dances@lsbu.ac.uk



Centre for Efficient and Renewable Buildings (CEREB)

CEREB is a unique facility for energy and sustainability teaching, training, research and public demonstration. The £2.8 million Centre hosts a number of renewable and intelligent energy solutions. Students are exposed to the technologies which the built environment needs to embrace in order to provide sustainable buildings for the future.



Architecture studios

At LSBU, architecture students have their own dedicated studio space near the top of our Keyworth Building with inspirational views across the

London landscape. Students take part in seminars and 'crits', workshops and practical project work.

Contact:

Lilly Kudic, Acting Head of Division, Architecture
kudicl@lsbu.ac.uk

The Centre has direct access to data from all the different technologies providing the services to the working university building below, together with the innovative technologies built into the Centre itself. There is also the ability to showcase developing technologies and to trial new products in a real life setting where the results can be closely monitored. This makes it an invaluable resource for understanding how to design, operate and manage technologies for future low carbon buildings – both new build and retrofit. The data from the monitoring systems is available via web interfaces that allows it to be used for collaborative research worldwide, giving the Centre an important international dimension.

Contact:

Andy Ford, CEREB Director
andy.ford@lsbu.ac.uk



Building Information Modelling centre

LSBU has invested in setting up an in-house Building Information Modelling (BIM) Centre, which is a

source of information and guidance on best practice to support BIM projects and improve consistency.

Construction, property and surveying students benefit from our well-placed and considered investment that brings students access to highly specialist equipment. For example, our construction laboratory includes the only Tensometer in London that measures material strength in very high detail.

Contact:

Steve Pittard
pittards@lsbu.ac.uk



Digital Architecture and Robotics Lab (DARLab)

The Digital Architectural Robotics Lab (DARLab) is a research platform in architectural education that advances experimentation and cross-discipline collaboration among students, industry partners and academic staff to expand the boundaries of architectural practice.



Environmental chamber

This climate controlled chamber is capable of maintaining strict environmental conditions by varying temperatures

and humidity. The chamber is fully automated and equipped with control software, the most accurate sensors, and a control and data acquisition system. The chamber has a wide range of research uses including product shelf-life testing, athlete training and testing, and environment simulation.

Contact:

Issa Chaer
chaeri@lsbu.ac.uk

A recent addition to LSBU's Architecture facilities, the lab houses a Multifunction Robotic Platform for Architectural Applications (MRPAA); a robotic platform able to process different materials with custom equipment and tools. It consists of an industrial robotic arm in combination with quick-change plates. This is easily modified, allowing many different tasks to be configured. Other equipment in the DARLab includes an Oculus Rift 3D virtual reality headset, a 3D scanner and a 3D printer.

The main area of research for DARLab is focused on additive digital fabrication techniques used for building standardised architectural components. The objective is to develop integration between new materials, and new tools to develop innovative construction fabrication processes.

Contact:

Federico Rossi, Academic Lead
darlab@lsbu.ac.uk

View from: Vanessa Cazaubon

**BSc (Hons) Architectural Technology,
co-founder E+C Associates**



Vanessa Cazaubon is a professionally qualified Architectural Technician and was recently named an LSBU Graduate Entrepreneur. She co-founded E+C Associates, which offers

strategy planning, implementation and training for digitally represented building design.

“You’ve got to be able to engage and communicate well. You could have a fantastic business idea, but it will be difficult to succeed if you cannot tell people a unique story.” Having beaten stiff competition to be awarded a place on the Graduate Entrepreneur scheme, Vanessa knows that a strong pitch can make all the difference when competing for clients and investors.

In addition to being a strong communicator, many entrepreneurs pin their success on being able to shine in a team environment and thrive under pressure: “It’s hard to believe, but my favourite time as a student was probably the most stressful part: revising for exams. I shared information with fellow students and we tested each other. It was actually a great way of making new friends.”

A previous interior design student, Vanessa is now combining her skills with architecture and construction to focus on BIM (Building Information Modelling), a process that involves creating and using an intelligent 3D model to inform and communicate building, infrastructure and utility projects.

“The business came through extensive market research and LSBU really helped broaden my understanding of the industry landscape and my prospective clients. The reasons E+C Associates exists are to support architectural technology and develop sustainable collaboration within the construction industry.”

Career destinations



Our graduates go on to find success in all kinds of areas. Quantity surveying and building surveying graduates follow careers

in professional consultancy offices, construction companies, government departments, building control, building management and project management. Property management graduates work in building control, in private and social housing, and in maintaining and managing public, private, commercial and residential buildings.

Our commercial and construction management graduates go into construction or specialist firms. Our architecture graduates go on to enjoy considerable external success, with previous graduates winning RIBA prizes and commendations, as well as having their work exhibited at the Royal Academy summer show. Recent successes include student work being shown as part of the RIBA President’s Medal Exhibition which is displayed across the world. This includes work from Waad Durzi, 2015 winner of the 2015 Tamayouz Excellence Award. Other award winners include postgraduate student Andreas Christodoulou (2015 TRADA Airspeed Student Design competition), and Benedict Okundaye (AJ Design Charrette).

Graduates from building services, and civil engineering courses become building services engineers working in the design, construction and consulting sectors, as well as in maintenance and facilities management. They also become civil engineers; working on infrastructure projects that make a difference to people’s lives. Recent student successes include Jolyon Axelrod and Ryan Rodrigues, finalists for Student of the Year at the RAC Magazine’s Cooling Awards.

Of the past 20 presidents of the Chartered Institution of Building Services Engineers, 13 have been LSBU alumni.



“When LSBU took me on, they took a bit of a chance. I didn’t have the best grades but I did have a natural passion and talent for architecture, art and design. Now I have a great opportunity to use that passion to try to make a difference to people’s lives through design.”

Focus on: Oliver Andrew

BA (Hons) Architecture, Architectural Assistant, Grimshaw Architects

Oliver was very proactive throughout his degree; support from his tutors helped secure interviews but he knew it was important to gain as much exposure as possible.

Since graduating with us, Oliver has won recognition in the Fentress Global Challenge to imagine the airport of the future. In his design, LDN Delta Airport would relieve two major airport problems – overcrowding and cost – by limiting accessibility to public transport and eliminating check-in desks, instead sending all travel information straight to passengers’ phones.

In the winning decision, the judging panel described Oliver’s plans for LDN Delta as ‘futuristic and

environmentally sustainable’ and praised his ‘creative approach and response to site, sustainability and functionality.’ He received a £3,000 cash bonus and a five-week placement at Fentress Architects.

Subsequently, Oliver has gone on to a Master’s in Architecture and now works at Grimshaw Architects. He’s also recently been commissioned for his first built project.

“I’m working on some very exciting cutting-edge projects involving future sustainable energy technology. I had the pleasure last week of presenting my first project to Sir Nicholas Grimshaw, one of the fathers of the high-tech movement within architecture, and someone I really admired while studying.”

Well on his way to becoming a world-class architect, he has also won awards for his design for a bus shelter that recycles water and produces solar power, Oliver recognises the importance of his time with us.

Employer sponsored study

Over 1,000 cross-sector partners sponsor their employees to study at LSBU. Our relevant, practical and accredited courses are designed for the modern workplace and are kept up to date with input from leading professional bodies and industry experts.

Our industry partners, such as Skanska and Transport for London, entrust us to provide their employees with the skills they need to support their organisation and progress their careers, leading to mutually beneficial outcomes for both employee and employer. These outcomes are achieved through an integrated course portfolio that is designed to help employees realise their true potential.

On campus learning has the advantage of allowing employees to access peer support when they are studying, and our intensive day release Bachelor's degree programmes, delivered over four or five years, minimise the amount of time employees spend away from the workplace.

Our qualifications run from Higher National Certificates all the way to PhDs, so there are potential benefits for staff at all levels. Entry requirements

recognise the value of professional experience for those with less formal qualifications.

LSBU is registered and approved by the Skills Funding Agency to provide government-funded apprenticeships, and we are one of the first providers in the country of this scheme. The School is already providing the academic component of degree apprenticeships in Building Surveying and Quantity Surveying which started in September 2015, and this will be expanded into other areas. Professor Charles Egbu, Dean of the School and other staff are now actively working with industry and apprenticeship consortia to set up new apprenticeships in response to demand.

For more information visit www.lsbu.ac.uk/courses/employer-sponsored-study or email business.sponsor@lsbu.ac.uk.

Architecture and the Shell Centre

LSBU architecture has formed a close working relationship with Braeburn Estates/Canary Wharf Group, the developers of the Shell Centre site at Waterloo.

Braeburn funded a student competition (won by undergraduate architecture student Muneeb Ali Khan) to design the hoardings around the Shell Centre, which will display a cross-section of our students' best work for at least 12 months. Braeburn are also sponsoring student prizes at all levels of the architecture programme, and the end of year architecture catalogue.

LSBU's role in the initiative at the Shell Centre is part of a wholesale involvement of primary, secondary, and tertiary education providers with the redevelopment of this major site neighbouring the University.



Case study: Troup Bywaters & Anders

Building for the future with the apprenticeships scheme

As a former apprentice himself, Neil Weller (Managing Partner at construction company Troup Bywaters & Anders) understands the importance of combining an education with professional practice better than most.

"Apprenticeships fit well with our ethos as a company," explains Neil. "We've always been a practice that's worked hard to nurture talent and promoted from within. For us, apprenticeships are an effective way of growing talent and developing a motivated, skilled and qualified workforce. Our hope is that those young people we sponsor will buy into our culture from the start, and stick with us for the long term – and the early signs on that are good."

Troup Bywaters & Anders took on its first cohort of Building Services Engineering apprentices in 2012, and the numbers have risen every year since. "We currently sponsor around 25 staff in total, which is a significant proportion of our total workforce of around 210," says Neil. "Interest is high, and we're usually over-subscribed."

All the apprentices spend two years at South Thames College in Wandsworth studying a BTEC in Construction and the Built Environment, which takes them up to Engineering Technician level. Then, depending on their grades and performance, they go on to study for an HND or a BSc (Hons) on a day release basis – with seven students currently studying at LSBU.

It's an approach that Neil is quick to recommend to other employers. "If more employers knew what they stood to gain from sponsored study, more would do it," he says. "It is well worth the investment of time and money. There are so many young people out there that have a lot to offer and are committed to making something of themselves – they just need an opportunity."

"The most obvious benefit to us has to be the calibre of the youngsters themselves. Their attitude, their approach to work, their ability to deal with people, is really amazing, and so encouraging for the future."

Neil Weller, Managing Partner, TB&A

Collaborations and Partnerships



Through our academic partnerships in the UK and overseas we offer a diverse range of courses in some inspiring locations. These important partnerships build on the existing expertise found at LSBU and give our students an extra enriching dimension to their studies. In the UK the School of The Built Environment and Architecture partners with several colleges:

- East Berkshire College
- Guernsey College of Further Education
- Guildford College
- Highlands College, Jersey

LSBU also works closely with more local schools and colleges. This relationship ensures we align our outreach and recruitment activities with the mission of these institutions to ensure their students make well informed and appropriate decisions about their future. We organise activities and projects for young people that encourage their participation in higher education. We also support older students as they go through the process of applying to LSBU and help them and others who may be the first in their families to come to university make the transition to student life.

For more information please email:
outreach@lsbu.ac.uk

The School of The Built Environment and Architecture is actively committed to building links and agreements with international partners.

Internationalisation

LSBU currently offers exchanges with several universities in the USA and Australia, and the School works closely with several international institutions. We're working with the British College of Applied Sciences (BCAS) in Sri Lanka to deliver a joint programme in BSc (Hons) Commercial Management (Quantity Surveying) and a Top-up in BEng (Hons) Civil and Construction Engineering. Another key partner is the British University in Egypt, where LSBU validates a number of programmes including BEng (Hons) Construction Engineering and Management, BEng (Hons) Civil Engineering and BSc (Hons) Architectural Engineering.

Recently, we have formed a new agreement with Applied Sciences University Bahrain, meaning that from September 2016 they are able to deliver LSBU validated courses in BEng (Hons) Architectural Design Engineering and BEng (Hons) Civil and Construction Engineering. Another new partnership is with Chongqing Jiatong University in China, which will see their students completing their final year at LSBU and LSBU academics teaching in China. We're also working with The Federal University of Technology Akure in Nigeria to organise academic exchanges, including 2016's international conference on 21st century human habitat.

Architecture students and staff have been invited to take part in Polyark 4, an international collaborative design project operated by RIBA. Architecture academics form part of international validation panels, reviewing academic standards at a wide variety of schools.

For more information on our partners and collaborations please visit www.lsbu.ac.uk/partners/academic-collaborations or email Phillip Lockett, Director of Collaborations: lockett@lsbu.ac.uk



Our courses

We offer a range of courses across foundation, undergraduate, postgraduate and doctorate levels. 100 per cent of taught courses are professionally accredited.

Within the school courses are split across three divisions, which reflect our areas of expertise: architecture; construction, property and surveying; and civil and building services engineering. Please check online for more information about all our courses www.lsbu.ac.uk/course-finder.

The chart below explains the different levels of study and progression routes at LSBU.

Programme	Description
Higher National Certificate (HNC)	A vocational higher education qualification
Higher National Diploma (HND)	A vocational higher education qualification
Top-up	Top-up courses are a means to obtaining a full bachelor's honours degree by building on existing qualifications or experience
Honours degree	An undergraduate or first degree course leading to a qualification such as: BA (Hons); BSc (Hons); BEng (Hons)
Undergraduate Foundation Programme	A course to prepare international students, who have completed senior secondary education, for progression to an undergraduate degree programme.
Masters degree	A postgraduate taught programme which includes a significant piece of independent work and leads to a qualification such as: MA; MSc; MBA.
Research masters	A research-oriented postgraduate degree programme leading to the MRes qualification
Research degree	An independent research programme that leads to the award of PhD

Entry requirements

Entry requirements differ from course to course, and these are listed on the following pages. For all courses applicants must hold 5 GCSEs A-C including Maths and English, or equivalent. A range of equivalent international qualifications are accepted, please check the country-specific pages of the LSBU website www.lsbu.ac.uk/international or the National Academic Recognition Centre (NARIC) www.naric.org.uk.

English language requirements

If English isn't your first language the minimum requirement for undergraduate courses is International English Testing System (IELTS) 6.0 with at least 5.5 in each skill area. For postgraduate courses the minimum is IELTS 6.5 with at least 5.5 in each area.

How to apply

You can apply for full-time undergraduate courses through ucas.com and postgraduate and research courses through the UKPASS system. For part-time undergraduate courses please apply direct to LSBU. International students should also apply direct to LSBU. See www.lsbu.ac.uk for more details.

Undergraduate courses

BA (Hons) Architecture

3 years full-time
4 years sandwich
5 years part-time

- Creative and design-focused course with an intellectual rigour underpinning the modules.
- Develop a wide range of skills, which teach you how to draw by hand and use digital media. You'll also address the issue of how to design architecture in a more sustainable and ethical way.

Modules

Year 1: Design 101 / Design 102 / Design 103 / Cultural context 1 / Technology 1 / Communication 1

Year 2: Design 201: experimental media / Design 202 / Design 203 / Cultural context 2 / Technology 2 / Communication 2: digital design

Year 3: Optional placement year

Year 4: Design 301 / Design 302 / Design 303 / Cultural context 3 / Technology and professional practice 3

Entry requirements

- A Level BBC or:
- Equivalent Level 3 qualifications worth 128 UCAS points
- Level 3 qualifications must include an Art or Design subject
- We normally require a portfolio of work to be submitted



BSc (Hons) Architectural Engineering

3 years full-time
4 years sandwich

- Develop sound technical skills and be able to apply scientific principles and practical knowledge to meet building performance criteria.
- Option to work in an industrial placement, improving your work prospects all the more.

Modules

Year 1: Practice skills / Materials and geology / Engineering mechanics / Mathematics / Structures and construction technology / Architectural design and technology 1

Year 2: Forensic engineering / Structures and construction management / Geotechnics / Design of elements / 3D CAD and building information modelling / Architectural design procedures

Year 3: Optional placement year

Year 4: Research project / Geotechnical design / Structures and design / Architectural design project / Architectural design and technology 2 / Architectural practice management

Entry requirements

- A Level CCD or:
- Equivalent Level 3 qualifications worth 96 UCAS points
- Level 3 qualifications must include Maths and/or Physics

Accredited by the Joint Board of Moderators

BSc (Hons) Architectural Technology

3 years full-time
4 years sandwich
5 years part-time

- Learn to translate designers' intentions into feasible development proposals and manage projects from design through to build.
- Gain a sound understanding of advanced computer technology in 3D Computer Aided Design.

Modules

Year 1: Architectural design and technology / Building services and environmental science / Construction technology and materials / Construction technology and structures / Legal and economic context / Supporting studies

Year 2: 3D computer aided design and building information modelling / Architectural design procedures / Construction contract law / Measurement, cost planning and tender process for architects and building surveyors / Property inspection, repair and maintenance / Theory of architecture, design and conservation

Year 3: Research project / Contract administration / Sustainable construction and the environment / Architectural design project / Architectural design and technology 2 / Architectural practice management

Entry requirements

- A Level CCC or:
- Equivalent Level 3 qualifications worth 112 UCAS points



BEng (Hons) Building Services Engineering

3 years full-time
4 years sandwich
4 years part-time

- Designed to equip you with the technical, management and communication skills needed to be an effective leader of teams involved in the design of building services and energy conservation in buildings.
- LSBU has over 60 years' expertise in this area and more than half of the graduates working in the building services engineering field have been educated here.

Modules

Year 1: Engineering mathematics / Building services engineering principles / Professional skills / Introduction to building services / Internal environment and comfort / Heating and ventilation systems

Year 2: Advanced engineering mathematics / Thermofluids engineering / Refrigeration, air-conditioning and heat pump engineering / Integrated building design / Project and business management / Electrical services in buildings

Year 3: Optional placement year

Year 4: Energy management and controls / Passive building design / Major project

Plus one optional module from: Heat and mass transfer applications / Electrical power systems and distribution / Thermal energy systems / Lighting and electrical systems

Entry requirements

- A Level BBC or:
- Equivalent qualifications worth 128 UCAS points
- Level 3 qualifications must include Maths or Physics



BTEC HND Building Services Engineering

2 years full-time
3 years part-time

- Course covers mechanical and electrical engineering along with energy conservation and environmental impact.
- In line with modern engineering practice, you'll develop your management and communication skills to realise your full career potential.

Modules

Year 1: Engineering mathematics / Electrical principles / Thermofluids principles / Professional skills Introduction to building services engineering / Foundation engineering mathematics

Year 2: Engineering mathematics / Internal environment and comfort Heating and ventilation systems / Thermofluids engineering / Refrigeration, air-conditioning and heat pump engineering / Design applications / Electrical services in buildings

Entry requirements

- A Level EEE or:
- Equivalent Level 3 qualifications worth 64 UCAS points supported by substantial relevant work experience
- Level 3 qualifications must include Maths or Physics



BSc (Hons) Building Surveying

3 years full-time
4 years sandwich
5 years part-time

- Focus on the core skills needed to become a chartered building surveyor.
- Study environmental awareness and health and safety alongside business management and information technology.
- On completion you'll be eligible to move on to the Assessment of Professional Competence (APC) training schemes approved and run through RICS.

Modules

Year 1: Building services and environmental science / Building survey and inspection / Construction technology and materials / Construction technology and structures / Legal and economic context / Supporting studies

Year 2: Construction contract law / Estate and property asset management / Planning and development controls / Property inspection, repair and maintenance / Theory of architecture, design and conservation / Sustainable construction and the environment

Year 3: Optional placement year

Year 4: Research paper / Project management / Management of the firm / Contract practice and administration / European construction and property / Property law and valuation

Entry requirements

- A Level BBB or:
- Equivalent Level 3 qualifications worth 128 UCAS points



Built Environment – Extended Degree Programme

1 year full-time
1 year part-time

- On successful completion of the Extended Degree, you'll be able to progress directly on to one of our HNC, BA (Hons) or BSc (Hons) courses in a range of Built Environment subjects.
- The experience you gain during the year, and your discussions with tutors, will ensure you choose the degree best suited to your interests and abilities. It's also possible to transfer from one course to another.

Modules

Art and design / Constructing the built environment / Construction mathematics / Design concepts / Integrated project / Practical skills for architecture / Practical skills for construction / Principles of construction science / Study skills

Entry requirements

- A Level EEE or:
- Equivalent Level 3 qualifications worth 64 UCAS points

BEng (Hons) Civil Engineering

3 years full-time
4 years sandwich
4 years part-time

- Civil engineering is all about the design, build and maintenance of modern-day infrastructure such as roads, bridges, canals, dams and buildings.
- BEng degrees incorporate a substantial amount of applied mathematics, which many recruiters look on favourably.
- Includes practical field trip.

Modules

Year 1: Engineering mechanics / Practice skills / Materials and geology Mathematics / Structures and construction technology / Engineering surveying

Year 2: Hydraulics / Structures and construction management / Soil mechanics / Design of elements / BIM and design / Advanced mathematics

Year 3: Optional placement year

Year 4: Structures and design / Geotechnical engineering / Environmental engineering and PD / Transport planning and highway engineering / Group design project / Individual research project

Entry requirements

- A Level BBC or:
- Equivalent Level 3 qualifications worth 128 UCAS points
- Level 3 qualifications must include Maths and/or Physics



BSc (Hons) Civil Engineering

3 years full-time
4 years sandwich
3 years part-time (entry on to Year 2)

- We've taught civil engineering courses at LSBU for several decades and our former students work in senior positions across the world.
- The BSc course is more practical and design-oriented than the more mathematical BEng Civil Engineering, so you'll leave well equipped to join the industry.

Modules

Year 1: Practice skills / Materials and geology / Engineering surveying / Engineering mechanics / Mathematics / Structures and construction technology

Year 2: Forensic engineering / Structures and construction management / Geotechnics / Design of elements / Traffic and highway engineering / 3D CAD and building information modelling

Year 3: Optional placement year

Year 4: Research project / Group design projects and PD / Geotechnical design / Environmental engineering

Entry requirements

- A Level CCD or:
- Equivalent Level 3 qualifications worth 96 UCAS points
- Level 3 qualifications must include Maths and/or Physics



BTEC HNC Civil Engineering

2 years part-time

- Civil engineers create, improve and protect the environment. We've designed our HNC course for technician engineers looking to develop their skills and careers.
- The course is popular with graduates from other fields now working in civil engineering. It also appeals to people from Europe working in London and seeking to extend their technical education using the part-time route.

Modules

Year 1: Materials and geology / Practice skills / Engineering mechanics

Year 2: Structures and construction technology / Engineering surveying / Mathematics

Entry requirements

- A Level EEE or:
- Equivalent Level 3 qualifications worth 64 UCAS points
- Level 3 qualifications must include Maths and/or Physics



BSc (Hons) Commercial Management (Quantity Surveying)

3 years full-time
4 years sandwich
5 years part-time

- Includes the study of management and business practice in a construction context as well as law and economics.
- Full-time students may undertake a work placement in Year 3, in order to gain valuable experience of working in the construction industry.

Modules

Year 1: Building services and environmental science / Construction technology and materials / Construction technology and structures / Legal and economic context / Supporting studies / Surveying and setting out

Year 2: Building economics / Management of organisation / Measurement 1 and documentation / Measurement 2 and estimating / Project appraisal and cost control / Construction contract law

Year 3: Optional placement year

Year 4: Contract practice and administration (quantity surveying) / Corporate management and finance / Research project / Project management / Quantity surveying project / Sustainable construction and the environment

Entry requirements

- A Level CCC or:
- Equivalent Level 3 qualifications worth 112 UCAS points



BTEC HNC Construction

1 year full-time
2 years part-time

- Chance to gain a crucial qualification, and your key to promotion across construction management, surveying and architectural technology.
- The teaching approach is vocational and aimed at building the technical and managerial skills you need to take on further responsibilities.

Modules

Building services and environmental science / Construction technology and materials / Construction technology and structures / Legal and economic context / Supporting studies

Plus one optional module from: Surveying and setting out / Architectural design and technology 2 / Building surveying and inspection

Entry requirements

- A Level DDE or:
- Equivalent Level 3 qualifications worth 64 UCAS points
- We'll also consider applications from anyone with significant relevant industrial experience.

BSc (Hons) Construction Management

3 years full-time
4 years sandwich
5 years part-time

- Build a range of technical and managerial construction expertise, along with up-to-date knowledge of legislation and regulations.
- If you study full-time, there'll be the option to work in an industry placement, giving you valuable on-the-job experience and improving your work prospects all the more.

Modules

Year 1: Supporting studies / Surveying and setting out / Legal and economic context / Construction technology and materials / Construction technology and structures / Building services and environmental science

Year 2: Construction contract law / Measurement and documentation / Estimating and tendering process / Production management / Construction planning / Management of organisation

Year 3: Optional placement year

Year 4: Research project / Project management / Corporate management and finance / Contract practice and administration / Sustainable construction and the environment / Construction management project

Entry requirements

- A Level CCC or:
- Equivalent Level 3 qualifications worth 112 UCAS points



BSc (Hons) Property Management (Building Surveying)

3 years full-time
5 years part-time

- There's a strong technology core but you'll also study aspects of project management, property and contract law alongside asset management.
- If you're studying full-time, there'll be the chance to carry out a work placement in the third year, improving your employment prospects further.

Modules

Year 1: Building services and environmental science / Building survey and inspection / Construction technology and materials / Construction technology and structures / Supporting studies / Legal and economic context

Year 2: Construction contract law / Estate and property asset management / Measurement, cost planning and tender process for architects and building surveyors / Theory of architecture, design and conservation / Sustainable construction and environment / Property inspection, repair and maintenance

Year 3: Research project / Contract practice and administration / Project management / Management of the firm / Building surveying project / Property law and valuation

Entry requirements

- A Level CCC or:
- Equivalent Level 3 qualifications worth 112 UCAS points



BSc (Hons) Quantity Surveying

4 years sandwich
5 years part-time
3 years full-time

- You'll focus on the core skills needed to become a quantity surveyor. So you'll study the law and building economics alongside business management and information technology.
- On completion you'll be eligible to move on to the Assessment of Professional Competence (APC) training schemes approved and run through RICS.

Modules

Year 1: Building services and environmental science / Building survey and inspection / Construction technology and materials / Construction technology and structures / Legal and economic context / Supporting studies

Year 2: Measurement 1 and documentation / Building economics / Construction contract law / Cost planning and tender process / Measurement 2 and documentation / Project appraisal and cost control

Year 3: Optional placement year

Year 4: Research paper / Project management / Management of the firm / Contract practice and administration / European construction and property / Surveying project

Entry requirements

- A Level BBB or:
- Equivalent Level 3 qualifications worth 128 UCAS points



Postgraduate courses

BSc (Hons) Real Estate

3 years full-time
5 years part-time

- Course focuses on the appraisal of commercial property for occupation, development and investment largely in an urban context.
- You'll develop property-related skills and knowledge together with an understanding of finance, business management and marketing in the context of the industry.

Modules

Year 1: Construction technology and materials / Construction technology and structures / Supporting studies / Introduction to valuations / Real estate law (contract) / Real estate law (tort)

Year 2: Real estate economics and finance / Applied valuations / Estate and property management / Town planning / Real estate brokerage and managing the firm / Property development

Year 3: Statutory valuations / Advanced valuations / Corporate real estate management / Property investment appraisal / Dissertation

Entry requirements

- A Level ABB or:
- Equivalent Level 3 qualifications worth 144 UCAS points

MArch Architecture

Full-time: 2 years
Part-time: 3 years

- Consider and refine your own responses to the design and making of architecture on this strongly design-based course, which is underpinned by a firm base in theory and technology.
- Field trips to a range of destinations. These include: Beijing, Berlin, Delhi, Dubai, Havana, Hong Kong, Istanbul, Jaipur, Las Vegas, Marrakech, Moscow, Paris, St Petersburg, Tokyo and Yokohama.

Modules

Design 401 / Design 402: Cities and communities/digital design / Design 403 / History and theory: critical thinking / Energy and resource efficiency in design / Professional practice and design economics / Design 501 / Design 502: Arts, media and digital design / Design 503 / Architecture and theory: dissertation / Technology 5

Entry requirements

- 2:2 or better UK Honours degree in architecture and, desirably, a portfolio demonstrating professional practical experience.
- Part-time applicants should be working in practice. International qualifications must be approved by RIBA.



MSc Building Services Engineering

Full-time: 12–16 months
Part-time: 28 months

- Many of the leaders in energy and building services engineering fields are LSBU graduates, providing guidance, placement and employment opportunities.
- The course will help you develop advanced understanding of the technological areas of building services and energy engineering.

Modules

Thermal environment, acoustics and lighting / Heating and energy in buildings / Energy resource and use analysis / Electrical power / Sustainable refrigeration / Ventilation and air conditioning / Energy engineering project

Entry requirements

- 2:1 or better BEng (Hons) degree in a relevant subject.
- 2:2 will be considered with substantial professional experience.
- Other qualifications may be accepted depending on professional experience.



MSc/Top-up to MSc/PgDip Building Surveying

Full-time: 1 year
Part-time: 2 years

- You'll have the chance to undertake a detailed construction project, taking into account current construction technologies, energy-efficiency solutions, and environmental and sustainability issues.
- Our field trips can take you overseas to locations such as Dubai or Shanghai, or to building developments happening on or near to campus.

Modules

Institutional and legal context for property / Construction / Valuations and surveying / Building pathology / Property and building law / Building surveying project / Use and performance of buildings / Property and asset management / Dissertation

Plus optional modules from: Behavioural finance / Building control / Building Information Modelling and collaborative working / Health and safety management in construction / History of architecture and construction / International real estate and construction / Legal resolution of property and construction disputes

Entry requirements

- 2:2 Honours degree in any subject; or membership of a relevant professional body such as RICS, CIOB, RTPI or RIBA; or employment experience in areas related to surveying and construction.
- Part-time applicants should be working in a field related to building surveying.



MSc Civil Engineering

Full-time: 12–16 months
Part-time: 2–3 years

- Covers structures, geotechnics, water engineering and water transportation. You'll use the technical modules to develop your understanding and application of advanced theory.
- You'll carry out an individual project into a specific area of the programme. The work will be investigative with an experimental or analytical, or a computer-based or fieldwork input.

Modules

Advanced structural design / Soil-structure engineering / Finite elements and stress analysis / Highway engineering and operation / Railway engineering and asset management / Water engineering / Project

Entry requirements

- 2:2 UK BEng Honours degree; or 2:1 UK BSc Honours degree or international equivalent in Civil Engineering; or equivalent work experience.



MSc Construction Project Management

Full-time: 1 year plus dissertation
Part-time: 2 years plus dissertation

- Focus on management's practical and theoretical aspects in organisational and project-based contexts. These subjects are supplemented by advanced financial appraisal techniques, with law specifically related to construction and development.
- Undertake a detailed construction project, taking into account current construction technologies, energy-efficiency solutions, and environmental and sustainability issues.

Modules

Procurement and management of construction / Corporate and project finance / Construction law / Management of people and information / Project evaluation / Dissertation

Plus optional modules from: Advanced measurement and documentation / Behavioural finance / Building control / Building Information Modelling and collaborative working / Health and safety management in construction / History of architecture and construction / International real estate and construction / Legal resolution of property and construction disputes

Entry requirements

- 2:2 UK Honours degree or international equivalent in a subject relevant to the built environment; or corporate membership of a professional body concerned with property or construction; or 2:2 UK Honours degree or international equivalent in a non-construction subject and some experience in the construction and development fields; plus at least two years' relevant experience.
- Part-time applicants normally work in a surveying or construction-related office.



MSc Digital Architecture and Robotic Construction

Full-time: 12–18 months
Part-time: 2 years

- Focus on digital design methods and construction technologies in architecture, engineering and design. It provides a scientific and practical foundation and gives an overview of latest developments in advanced modelling, computational design and robotic construction.
- The course makes extensive use of DARLab (Digital Architecture Robotics Lab), a research platform in architectural education which contains a robotic arm capable of crafting impossible structures and architectural art.

Modules

Integrative technologies and robotic manufacturing / Advanced digital design techniques / Design project material behaviour / Design project adaptive systems and structures / Technology for building systems / Design research architectural project / Dissertation

Entry requirements

- 2:2 UK Honours degree in Architecture or international equivalent; or vocational qualifications; or portfolio of relevant academic and practice work; or relevant experience.
- Part-time applicants should be working in practice.

MSc Environmental and Architectural Acoustics

Full-time: 12–16 months
Part-time: 2 years

- In this professionally focused, applied degree, practical work plays an essential part – you'll spend half the teaching time in the laboratory. You'll gain direct experience of modern measurement equipment and techniques, covering modules directly relevant to acoustics practice, and consider the broader aspects of investigation and control.
- Facilities include full-size reverberant and anechoic chambers and a well-equipped and staffed laboratory, with access to the latest instrumentation and technology.

Modules

Acoustics laboratory / Architectural acoustics / Measurement and control of sound / Subjective and environmental acoustics / Environmental management / Research methods / Energy engineering project

Entry requirements

- 2:2 UK Honours degree in a relevant subject; or life/work skills suitable to study at this level.



Institute of Acoustics Diploma in Acoustics and Noise Control

Part-time: 1 year

- Educational qualification of choice for professional practitioners in acoustics, noise and vibration.
- You'll gain specialist academic training to satisfy the educational requirements for membership of the Institute of Acoustics, the most highly regarded professional membership in the acoustics, noise and vibration industry.

Modules

General principles of acoustics / Laboratory / Building acoustics / Noise and vibration control / Project

Entry requirements

- 2:2 UK Honours degree in a science, branch of engineering or related subject such as Construction, Sonic Arts or Environmental Health; or qualification in an alternative discipline; or substantial relevant professional experience with appropriate level of study skills and baseline knowledge, particularly in mathematics and physics.



MSc International Real Estate

Full-time: 1 year
Part-time: 3 years

- Focus on real estate's traditional components from an international perspective.
- We're expert at attracting property and construction students from the UK and around the world. Much of this is down to the links we enjoy with major real-estate consultancies, property companies, contractors, cost consultants and developers. This ensures our courses are highly relevant to the current market.

Modules

Real estate economics and finance / International valuations and property management / International property finance / Corporate real estate management / Property investment appraisal / Dissertation
Plus optional modules from: Behavioural finance / Building control / Building Information Modelling and collaborative working / Management of health and safety in construction / History of architecture and construction / International real estate and construction / Legal resolution of property and construction disputes

Entry requirements

- 2:2 UK Honours degree or international equivalent in a related or semi-related subject; plus at least two years' property-related work experience; or interview to establish if you would be suitable for the course.
- Part-time applicants will typically be currently employed in a surveying or property-related position.



MSc/Top-up to MSc/PgDip Property Development and Planning

Full-time: 1 year plus dissertation
Part-time: 3 years plus dissertation

- This is for non-surveying graduates working, or planning to work, in property development and related fields.
- You'll gain the knowledge and skills to offer specialist advice in property development, harnessing the theories, practices and techniques of the planning and development surveyor.

Modules

Real estate economics and finance / International valuations and property management / International property finance / Corporate real estate management / Property investment appraisal / Dissertation
Plus optional modules from: Behavioural finance / Building control / Building Information Modelling and collaborative working / Management of health and safety in construction / History of architecture and construction / International real estate and construction / Legal resolution of property and construction disputes

Entry requirements

- 2:2 UK Honours degree or international equivalent in a related or semi-related subject; plus at least two years' property-related work experience; or interview to establish if you would be suitable for the course.
- Part-time applicants will typically be currently employed in a surveying or property-related position.



MSc Quantity Surveying

Full-time: 1 year plus dissertation
Part-time: 2 years plus dissertation

- This is for you if you have a non-surveying degree and work, or plan to work, in the construction industry
- You'll be interested in construction cost management and be motivated to pursue an intensive route to professional qualifications. The course content covers the skills needed to practise as a quantity surveyor.

Modules

Institutional and legal context for construction / Construction / Measurement, documentation and estimating / Project evaluation / Construction contract administration / Construction law / Procurement and management of construction / Economics and finance for construction / Dissertation
Plus one optional module from: Behavioural finance / Building control / Building Information Modelling and collaborative working / Health and safety management in construction / History of architecture and construction / International real estate and construction / Legal resolution of property and construction disputes

Entry requirements

- 2:1 UK Honours degree or international equivalent in any subject; or corporate membership of a professional body concerned with property or construction, for example, CIOB, RIBA, RTPI, CIOH or other relevant body of equal standing.
- Part-time applicants should be working in a property-related office.



MSc/Top-up to MSc/PgDip Real Estate

Full-time: 1 year plus dissertation
Part-time: 2 years plus dissertation

- Our focus is appraising commercial property for occupation, development and investment, largely in an urban context. You'll develop your property-related skills and knowledge, with an understanding of finance, business management and marketing.
- You'll gain an insight into the nature of land and property investment, development and management, and its impact on the vitality of our cities.

Modules

Institutional and legal context for property / Construction and planning / Valuations / Advanced valuations / Real estate economics and finance / Applied valuation and the management of property interests / Corporate real estate management / Property investment appraisal / Dissertation

Plus optional modules from:
Behavioural finance / Building control / Building Information Modelling and collaborative working / Management of health and safety in construction / History of architecture and construction / International real estate and construction / Legal resolution of property and construction disputes

Entry requirements

- 2:2 UK Honours degree or international equivalent in any subject.



RIBA Professional Practice Part 3

Part-time: 12 months

- Consists of a series of 18 weekly, evening lectures.
- To prepare you for your 10,000-word case study, 2,000-word career evaluation and professional experience record, you'll be tutored on a one-to-one basis.
- If you are appropriately qualified, have two years' professional experience and pass the Part 3 examination, you'll be eligible to apply to the Architects Registration Board for registration as an architect.

Modules

The Professional Practice course covers salient and significant areas of the Professional Practice syllabus as set out by RIBA including current building legislation, planning, contract law, types of building contract, management of architecture, practice and construction, financial control, business management, professional liability and dispute resolution.

Entry requirements

- RIBA Parts 1 and 2 in Professional Practice as part of degree/diploma, or for overseas students Architects Registration Board recognition of equivalency of qualifications to RIBA Parts 1 and 2.



MSc Structural Engineering

Full-time: 12–16 months
Part-time: 2–3 years

- Study advanced structural analysis and design, with structural computing simulation, and modules covering steel, concrete, timber and other structural designs.
- You'll also study advanced computing methods and commercial computing software for structures modelling and simulation.

Modules

Advanced structural design / Soil-structure engineering / Finite elements and stress analysis / Masonry and timber engineering / Structural dynamics and earthquake engineering / Advanced computing and structural simulation / Project or dissertation

Entry requirements

- 2:2 UK BEng Honours degree; or 2:1 UK BSc Honours degree or international equivalent in Civil Engineering or another closely related engineering or technical discipline; or substantial work experience (considered on individual merit).



MSc Sustainable Energy Systems

Full-time: 12-16 months
Part-time: 28 months

- Develop skills and knowledge in energy systems that will meet future energy needs.
- The course content is relevant to international, national and local government energy policies and strategies, so it will be valuable to anyone working in an energy-related engineering discipline.

Modules

Analysis and design of transport systems / Highway engineering and operation / Railway engineering and asset management / Highway and railway engineering and operations / Safety, survey techniques and quantitative methods / Transport society and planning / Finite elements and stress analysis / Project / Property development and regeneration.

Entry requirements

- 2:2 UK Honours degree or international equivalent in a relevant subject.



MSc Transport Engineering and Planning

Full-time: 12–16 months
Part-time: 2–3 years

- This course will provide you with systematic skills and knowledge in analysing and designing transport systems.
- These will be grounded in advanced engineering science, statistical modelling and planning theory and practice.

Modules

Renewable energy technologies 1 / Renewable energy technologies 2 / Energy resource and use analysis / Electrical power / Sustainable refrigeration / Environmental management / Energy engineering project

Entry requirements

- 2:2 UK BEng Honours degree; or 2:2 UK BSc Honours degree or international equivalent in a relevant subject such as Engineering, Science, Maths, Statistics, Geography, Planning or Economics, or Psychology or other subjects if contained good level of numeracy; or substantial work experience.



Research programmes

Full-time: 3 years
Part-time: 5 years
Distance learning: 6 years

In the School research is grouped around three key areas; Architecture, Construction Management and Economics, and Engineering and the Built Environment. Within these areas there are several research centres, and you can expect to join one of the centres working with small teams to solve particular problems.

A member of staff, expert in the chosen field, is directly responsible for guiding and supporting your research programme. As a research student you'll become part of our thriving academic community. Research areas where we are able to offer supervision include:

- Ageing research in the built and human environments
- Architectural pedagogy and design studio culture
- Architecture for humanitarian and development practice
- Building information modelling, and IT in construction
- Building services, energy efficient and renewable energy technologies
- City depiction, design and description
- Construction and project management
- Digital architecture, fabrication and design research
- Disaster resilience
- Economics of construction, property and housing
- Electrical building services including lighting, power and control
- Energy and resource efficiency
- Energy assessment, measurement and performance of buildings
- Environmental and architectural acoustics
- Green construction
- Housing and property investment
- Inclusive design and assisted technologies
- Innovations, knowledge, and intangible assets
- Life cycle assessment, maintenance and asset management.
- Managing data and its impact
- Managing People, risks, safety, and value
- Modern methods of construction
- Monitoring energy demands
- Passive low energy design and building physics, climate change impact and adaptation of existing buildings
- Planning of the built asset and its environment
- Procurement and contracts
- Refrigeration, air conditioning, heating, cooling, and energy storage technologies
- Renewable energy in cities, communities and districts
- Rethinking sustainable practice: adaptation, conservation, and architecture
- Strategic IT in construction
- Strategic management of property, facilities, and the built asset
- Structural engineering, structural analysis and simulation,
- Supply chains and networks
- Sustainability development
- Transport engineering
- Urban resilience
- Visualization; augmented reality; 3D modelling; integrated project delivery; virtualisation and cloud
- Water systems and management

Entry requirements

When applying for a Research Degree Programme at LSBU you are expected to have a good honours degree. If you have the equivalent of a lower second or third class honours you would also need a Postgraduate qualification at Masters level. You will also be required to show proof of all of your qualifications. If English is not your first language you will be expected to prove your competency in English, showing an IELTS score of at least 7.0 at postgraduate level.

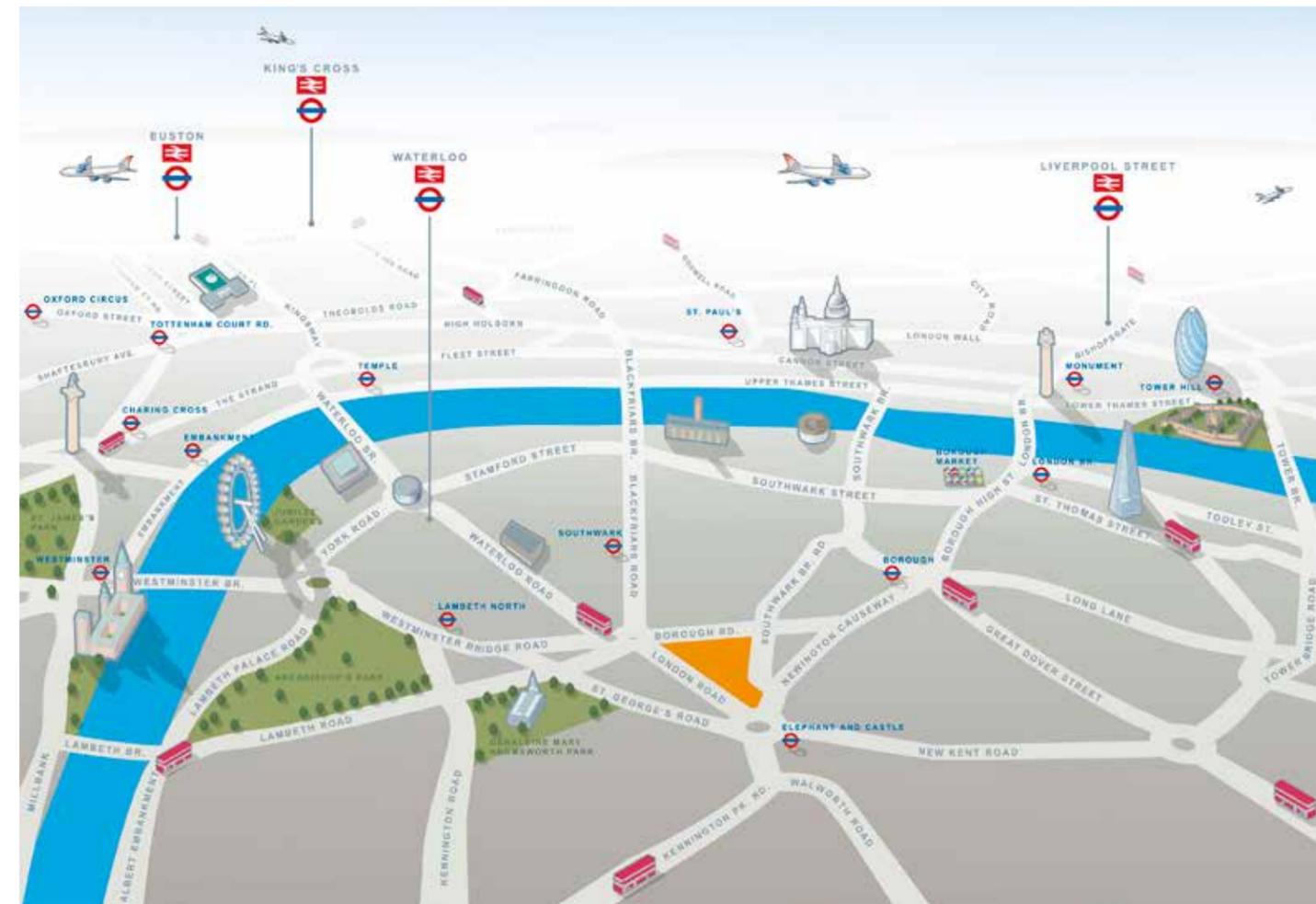
We offer eight start dates throughout the year: January, February, March, April, May, September, October and November.

For more information on PhDs in the School, how to apply, and guidance on how to prepare a PhD research proposal as part of a PhD application submission visit www.lsbu.ac.uk/bea-research

Fantastic location

LSBU is centrally located in Elephant and Castle, two minutes' walk from the underground station. It's also nearby London Bridge and Waterloo mainline stations, giving access from further afield. It's connected to the rest of South London by several bus services.

The University's location in the heart of central London is a major asset for all our students. Close to the banking and commercial centres, next door to the city's South Bank and on the doorstep of the £1.5 billion, 55-acre Elephant and Castle and Borough re-development area, this forms a rich ground for applied project work.



Disclaimer

Every effort has been made to ensure that the information in this brochure is accurate, and all information is believed to be correct at the time of publication, but please make sure that you always check our main website course pages for the latest information before making an application.

If the University perceives the need to make a change or changes to a course, it will take steps to communicate to students and prospective students of that course, what assistance and options they will be offered in terms of switching course and/or withdrawal from the course without penalty and/or adjustment of fees and/or switching to another higher education provider.

Contact

Course enquiries:

0800 932 8888
course.enquiries@lsbu.ac.uk
www.lsbu.ac.uk/course-finder

Research:

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