INTEGRATED BUILDING SYSTEMS DESIGN AND OPERATION MSc / 2018/19 ENTRY

www.ucl.ac.uk/graduate/envirodes
The Integrated Building Systems Design and Operation MSc offers a thorough grounding in the science and engineering of integrated building systems. Drawing upon the world-leading research conducted in this field at The Bartlett’s Institute for Environmental Design and Engineering, and exploiting strong industry links, it provides students with the knowledge and skills to be able to excel in relevant industry roles or pursue research at the doctoral level.

Degree summary

The programme is informed by the latest research and the evolving needs of the industry. You will learn about integrated building design, advanced modelling and simulation, energy management systems, and performance evaluation. You will develop the expertise to utilise hard-edged engineering methods and quantitative and qualitative tools to test and evolve your designs, integrating quantitative performance considerations.

The MSc in Integrated Building Systems Design and Operation (IBSDO) offers exceptional university graduates the opportunity to become experts in this innovative and developing discipline. We aspire to generate leaders in technology, delivering high-performance engineered solutions in building systems design.

The IBSDO MSc is delivered by the UCL Institute for Environmental Design and Engineering (IEDE), building upon strong links with industry and multidisciplinary research undertaken at The Bartlett. Teaching is delivered at the Bloomsbury campus and UCL's new Here East facility in East London: you will benefit from access to the creative hub in Here East and access to modern lab spaces and equipment.

The programme is delivered through a combination of lectures, seminars, tutorials, problem-based learning, hands-on laboratory sessions and project work. Assessment is through a combination of methods: written coursework, group work with a design component, individual and group-based project work, unseen examinations, and by dissertation.

Students will have the opportunity to participate in a field trip in term one which will include a mix of workshops, seminars and team building activities. Students will have the opportunity to participate in site visits throughout the duration of the programme.

The costs of the field trip are covered by the department. Site visits that are within the Transport for London area and which are optional may incur additional transport costs.

Accreditation

Accreditation will be sought by the Chartered Institute of Building Services Engineers (CIBSE) as suitable "further learning" to meet the academic requirements for Chartered Engineer (CEng) status.
**Your career**

Successful graduates will be equipped with the skills and knowledge required for engineering and specialist roles in companies that provide engineering, design, planning and consulting services.

Companies that specialise in building services engineering, operations, building controls and energy systems, as well as high-tech companies seeking to deliver disruptive solutions and digital innovation in the built environment will be particularly interested in employing this programme's graduates, as will public sector agencies and government departments concerned with the built environment, resource efficiency, and energy management.

The programme provides an ideal foundation for further doctoral and industrial research pathways and can lead to a career in research.

**Employability**

You will gain strong core knowledge and hands-on experience with monitoring and energy management systems, and applying industry standards. You will use simulation tools including EnergyPlus, DesignBuilder or IES<VE>, and will become familiar with modelling languages like Modelica. These skills are highly sought after in industry.

An advisory group provides guidance to ensure content and project briefs are relevant to industry needs. Guest lecturers will be drawn from industry.

You will gain the confidence to undertake large interdisciplinary projects with many unknowns and uncertainties, learning to coordinate work, integrate across disciplines, and make balanced decisions, thus preparing you for professional life.
Entry requirements

A minimum of an upper second-class UK Bachelor’s degree, or an overseas qualification of an equivalent standard, is required.

English language proficiency level

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at: www.ucl.ac.uk/graduate/english-requirements

Your application

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:

- why you want to study Integrated Building Systems Design and Operation at graduate level
- why you want to study Integrated Building Systems Design and Operation at UCL
- what particularly attracts you to the chosen programme
- how your academic and professional background meets the demands of this challenging programme
- where you would like to go professionally with your degree.

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

Application fee: There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. More details about the application fee can be found at www.ucl.ac.uk/prospective-students/graduate/taught/application.

FEES AND FUNDING 2018/19 ENTRY

- UK: £13,630 (FT), £N/A (PT)
- EU: £13,630 (FT), £N/A (PT)
- Overseas: £24,420 (FT), £N/A (PT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Current Students website.

Fees for flexible, modular study are charged pro-rata to the appropriate full-time Master’s fee taken in an academic session.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

APPLICATION DEADLINE

All applicants: 27 July 2018

Details on how to apply are available on the website at: www.ucl.ac.uk/graduate/apply

CONTACT

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EU referendum

For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to www.ucl.ac.uk/eu-referendum