Revolutions in biotechnology will shape our futures. The Bio-integrated Design MSc brings together the creative and scientific skills required to address the challenges of developing new materials, providing energy and increasing wellbeing.

**Degree summary**

You will learn to complement scientific protocols with iterative design methods, using new modes of simulation and production. You will also learn how advances in the fields of life science and material science can be applied to create innovative environments.

// Bio-integrated Design MSc is a science-orientated programme, in which students undertake cutting-edge research, analysis and experimentation with new modes of architectural simulation and production. This programme is hosted by The Bartlett School of Architecture and co-directed by the Department of Biochemical Engineering, providing you with access to unique facilities for both design and scientific research. The interdisciplinary nature of the degree merges a wide range of expertise, employing laboratory testing in biotechnology and synthetic biology; novel design as a research tool to encompass high-end computation and fabrication; multifunctional and bio-receptive materials; ecology and space.

// The Bio-integrated Design MSc directly responds to contemporary environmental concerns and agendas in the built environment, combining science and architectural design with cutting-edge technology to create prototypes and concepts for a better, greener future. The Bartlett School of Architecture is renowned for preparing students for successful careers and has been ranked as the top architecture school in the UK by the Architects' Journal AJ100 for fifteen consecutive years. The school also enjoys an exceptional international reputation and is currently ranked second in the world by the QS World University Rankings by Subject 2018, above any other institution in Europe. The Department of Biochemical Engineering, is the UK's first and largest department of its kind.

// This programme is part of B-Pro or Bartlett Prospective, which groups together five of the architecture school's graduate programmes with a unique philosophy and shared approach to the future of design, architecture and the urban environment. Students studying Bio-integrated Design will participate in The Bartlett's annual B-Pro Show, an exhibition of student work in Bloomsbury attended by the industry and public alike each autumn.

This programme is taught through workshops, seminars and crits. The programme promotes learning via research and enquiry, in particular through iterative design, material studies and laboratory work. Assessment will be mainly via coursework, but also through on-going evaluation of transferable skills including presentations, criticism, work ethics in the lab and general teamwork. Your key assessed elements include design portfolios, physical prototyping, illustrated essays and reports, and final oral presentation.

**Degree structure**

**Mode:** Full-time: 2 years; Flexible: up to 5 years

**Location:** London, Bloomsbury

Full-time students study for 37.5 hours per week during term time. Typically, lectures and seminars occur on two days per week. Flexible students normally attend half this amount.

Students undertake modules to the value of 300 credits. This programme consists of an intensely taught first year with five taught modules (180 credits) followed by two modules in year two, one of which is a comprehensive, integrated research project (90 credits). All modules are compulsory.

Please note that the list of modules given here is indicative. This information is published a long time in advance of enrolment and module content and availability is subject to change.

**COMPULSORY MODULES**

- Introductory Project (45 credits)
- Historical, Cultural and Theoretical Skills (15 credits)
- Technical Skills (15 credits)
- Thesis Report (30 credits)
- Final Year 1 Project (75 credits)
- Introduction to the Research Thesis (30 credits)
- Integrated Research Project (90 credits)

**OPTIONAL MODULES**

**DISSERTATION/REPORT**

- All students undertake an independent research project which culminates in a dissertation of 15,000 words (90 credits).

Maximum cost to the student is £500.
Your career

The Bartlett School of Architecture and Department of Biochemical Engineering are both recognised as world-leading in their fields and graduates from our Master’s programmes are highly sought after.

Employability

The programme has been structured to empower students to develop specialist skills and a distinct design vision that merges expertise in biotechnology, design and engineering. You will be prepared for a broad scope of jobs in various industries, including the integration of teams in architecture and engineering offices. You will also be equipped to pursue research either in academia or industry.
Entry requirements

A minimum of a second-class UK Bachelor’s degree in an appropriate subject or an overseas qualification of an equivalent standard. Applicants will also be asked to submit two short pieces of writing. Details on this will be provided once the completed application has been received by the department.

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

When we assess your application we would like to learn:

- why you want to study Bio-Integrated Design at graduate level
- why you want to study Bio-Integrated Design at UCL
- what particularly attracts you to this programme
- how your academic 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.

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

FEES AND FUNDING 2019/20 ENTRY

// UK: £13,750 (FT)
// EU: £13,750 (FT)
// Overseas: £28,410 (FT)

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 Students website.

Full-time students undertake 180 credits in Year 1 and 120 credits in Year 2. As such, the fee in Year 1 will be £13,750 (UK/EU) / £28,410 (Overseas) but the fee in Year 2 will be approximately two-thirds of the Year 1 fee (subject to UCL’s annual fee increase). For modular/flexible students, the full-time fee indicated will be pro-rated based on module selection.

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

APPLICATION DEADLINE

All applicants: 26 July 2019

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/brexit