BIOMATERIALS AND TISSUE ENGINEERING MSc
2018/19 ENTRY

www.ucl.ac.uk/graduate/mecheng
This MSc will equip you with state-of-the-art knowledge of biomaterials, bioengineering, tissue engineering, medical engineering and related management topics. Delivered by experts from across UCL and eminent visiting lecturers from industry and medical charities, this interdisciplinary programme attracts physical sciences, engineering and life sciences graduates, including those with qualifications in medicine.

**Degree summary**

You will develop an advanced knowledge of topics in biomaterials and tissue engineering alongside an awareness of the context in which healthcare engineering operates, in terms of safety, environmental, social and economic aspects. You will also gain a wide range of intellectual, practical and transferable skills necessary for a career in this field.

- There are internationally renowned research groups in biomaterials and bioengineering in UCL Engineering and you will have access to a state-of-the-art research portfolio.
- In recent years, UCL Mechanical Engineering has seen unprecedented activity in refurbishing and re-equipping our laboratories. For example, six new biomaterials and bioengineering laboratories have been set up with funding from the Royal Society and Wolfson Foundation. A new biomaterials processing and forming laboratory is also available in the Materials Hub in the Engineering Building.
- The programme is also delivered by leading researchers across UCL’s Division of Medicine, Eastman Dental Institute, the Institute of Biomedical Engineering and visiting experts from other UK organisations.

This dynamic programme is delivered through lectures, tutorials, individual and group projects, and practical laboratory work. Assessment is through written, oral and viva voce examinations, the dissertation and coursework (including the evaluation of laboratory reports, technical and project reports, problem-solving exercises, assessment of computational and modelling skills, and oral presentations).

**Degree structure**

**Mode:** Full-time: 1 year; Flexible: up to 5 years  
**Location:** London, Bloomsbury  
Students undertake modules to the value of 180 credits. The programme consists of eight core modules (120 credits) and a research dissertation (60 credits).

**CORE MODULES**

- Biomaterials  
- Tissue Engineering  
- Biofluids and Medical Devices  
- Biomechanics and Biostructures  
- Applications of Biomedical Engineering  
- Bioengineering  
- Medical Imaging (ionising and non-ionising)  
- Evaluation and Planning of Business Opportunities

**OPTIONAL MODULES**

- There are no optional modules for this programme.

**DISSERTATION/REPORT**

Culminating in a substantial dissertation and oral presentation, the research project focuses your research interests and develops high-level presentation, critical thinking and problem-solving skills. The project can be based in any relevant UCL department.
**Your career**

There are many career opportunities and the programme is suitable for students wishing to become academics, researchers or professionals and for those pursuing senior management careers, in manufacturing or healthcare engineering.

Recent career destinations* include:

- Dentist, Dental Life
- Good Manufacturing Process Scientist, RMS (Regenerative Medical System)
- Postgraduate Research Assistant, University of Cambridge
- PhD in Biomaterials and Tissue Engineering, UCL
- PhD in Surgery, UCL

**Employability**

Delivered by leading researchers from across UCL, as well as industrial experts, you will have plenty of opportunities to network and keep abreast of emerging ideas in biomaterials and tissue engineering. Collaborating with companies and bodies such as the NHS, JRI Orthopaedics and Orthopaedics Research (UK) is key to our success and you will be encouraged to develop networks through the programme itself and through the department’s careers programme which includes employer-led events and individual coaching. We equip our graduates with the skills and confidence needed to play a creative and leading role in the professional and research community.

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* Careers data is taken from the ‘Destinations of Leavers from Higher Education’ survey undertaken by HESA looking at the destinations of UK and EU students in the 2013-2015 graduating cohorts six months after graduation.
Entry requirements

A minimum of a second-class Bachelor's degree from a UK university in a suitable engineering subject or appropriate medical qualification or an overseas qualification of an equivalent standard.

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 Biomaterials and Tissue Engineering at graduate level
// why you want to study Biomaterials and Tissue Engineering at UCL
// what particularly attracts you to this programme
// how your academic and/or professional background meets the demands of a 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: £12,380 (FT), £N/A (PT)
// EU: £12,380 (FT), £N/A (PT)
// Overseas: £25,880 (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.

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

Ms Louisa Ball, Programme Administrator
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Telephone: +44 (0)20 7679 3907

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

PDF Updated: November 18, 2017
This information is for guidance only. It should not be construed as advice nor relied upon and does not form part of any contract.
For more information on UCL’s degree programmes please see the UCL Graduate Prospectus at www.ucl.ac.uk/graduate