

MSc Sustainable Design and Construction

School of Architecture, Building and Civil Engineering

Professor Mohamed Osmani

MSc Sustainable Design and Construction Programme Director

Accolades



1ST IN THE UK FOR BUILDING

THE TIMES AND SUNDAY TIMES GOOD UNIVERSITY GUIDE 2021



1ST IN THE UK FOR BUILT ENVIRONMENT

FOR THE VITALITY AND SUSTAINABILITY OF THE RESEARCH ENVIRONMENT REF 2014

Accreditations

The programme is seeking accreditation from:

- Chartered Institute of Building (CIOB)
- Joint Board of Moderators (JBM): Institution of Structural Engineers (IStructE), Institution of Civil Engineers (ICE), Chartered Institution of Highways and Transportation (CIHT), Institute of Highway Engineers (IHE)











Research areas

Architecture & Building

ARCH

BERG

CM

Architecture

Building Energy Research Group

Construction Management inc. Quantity Surveying

Civil Engineering

GEO WE SM TRA

Geotechnics and Geomatics

Water Engineering inc. WEDC

Structures and Materials

Sustainability & Circular Economy

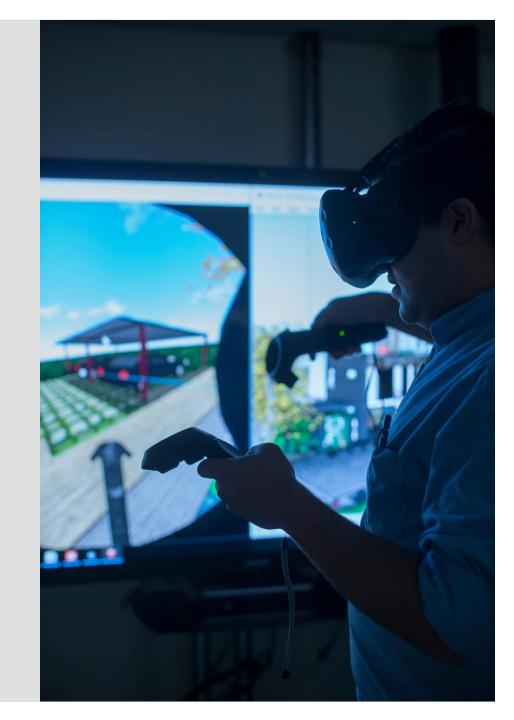
Our academics

- Dr David Allinson: https://www.lboro.ac.uk/departments/abce/staff/david-allinson/
- Professor Patricia Carrillo: https://www.lboro.ac.uk/departments/abce/staff/patricia-carrillo/
- Dr Peter Demian: https://www.lboro.ac.uk/departments/abce/staff/peter-demian/
- Dr Vanda Dimitriou: https://www.lboro.ac.uk/departments/abce/staff/vanda-dimitriou/
- Dr Mahroo Eftekhari: https://www.lboro.ac.uk/departments/abce/staff/mahroo-eftekhari/
- Professor Alistair Gibb: https://www.lboro.ac.uk/departments/abce/staff/alistair-gibb/
- Dr Ruodan Lu: https://www.lboro.ac.uk/departments/abce/staff/ruodan-lu/
- Professor Mohamed Osmani: https://www.lboro.ac.uk/departments/abce/staff/mohamed-osmani/
- Professor M. Sohail: https://www.lboro.ac.uk/departments/abce/staff/m-sohail-khan/

Facilities

- State-of-the-art classrooms
- Geotechnical laboratories
- Concrete testing
- 3D concrete printing robots
- 3D Fab Lab and VR suite
- Hygrothermal test facility
- Modelling and prototyping laboratory
- Flood plain modelling
- Massive flume (0.33m3/sec)

- Salt bath
- Rainfall simulator
- Water engineering lab
- Environmental chamber
- Type 2 microbiological lab
- Solar simulator
- Daylight modelling laboratory
- Sports surface testing laboratory



Programme introduction

- This programme is part of our other Construction master's programmes that are the longest established in the UK and the second oldest in the world
- Teaching delivery is informed by world-leading research on sustainability, energy efficiency and circular economy
- The programme builds on the ever-growing global sustainability agendas, including the UN Sustainable Development Goals (SDGs)
- It emphasises the practical application of sustainability in construction projects
- It provides students with the additional opportunity to gain the Building Research Energy Environmental Assessment Methodology (BREAAM) qualification

Programme structure: Semester 1

Digital Buildings in a Global Design Context (15 credits)

Research Methods (15 credits)

Principles of Design and Construction (15 credits)

Sustainable Design and Construction Theories, Principles and Assessment Tools (15 credits)

Research Dissertation (60 credits)

Programme structure: Semester 2

Compulsory modules

Low Energy Building Design (15 credits)

Integrated Sustainable Design and Construction Project (15 credits)

Research Dissertation (60 credits)

Optional modules

Design Management (15 credits)

Management of Construction Processes and Techniques (15 credits)

Federated Building Information Modelling (15 credits)

Industry partnerships

- This programme's modules include at least one industry guest speaker
- Unrivalled industry links









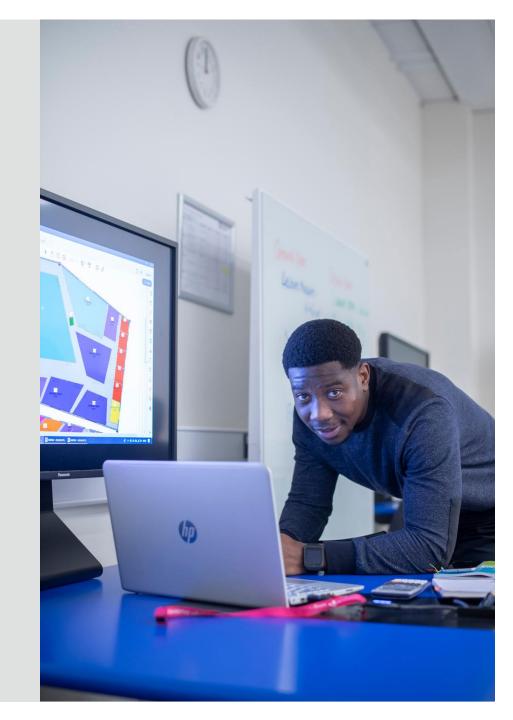






Balfour Beatty Construction





Career prospects

This programme is:

- uniquely dedicated to developing construction managers' knowledge and expertise in sustainable construction
- bespoke for those seeking to emerge as sustainability leaders in the international construction industry

You'll have access to:

- Multiple careers fairs on campus attracting over 100 employers
- Dedicated engineering careers fair
- Careers Network that gives dedicated support and resources for career planning and job hunting

Our graduates

Our record of graduate destinations is exemplary, with our graduates progressing to senior industrial positions or further study.





















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Thank you

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