

# FACULTY OF ENGINEERING

## DEPARTMENT OF BIOMEDICAL ENGINEERING

### BIOFLUID MECHANICS

#### Master of Research in Biofluid Mechanics Postgraduate Certificate in Biofluid Mechanics

*For regulations relating to admissions, duration of study, examinations, progress, final assessment, award and research elements of this degree, please refer to the [General Academic Regulations - Postgraduate Research Degree Regulations](#).*

*For regulations relating to taught (compulsory/optional) modules, please refer to the [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).*

#### Admission

1. Applicants shall possess:
  - i. a degree (or, in the case of direct entry to the degree of MRes, a first or second class Honours degree) from a United Kingdom University (in an appropriate discipline); or
  - ii. a qualification deemed by the Programme Director acting on behalf of Senate to be equivalent to (i) above.
2. In all cases, applicants whose first language is not English, shall be required to demonstrate an appropriate level of English.

#### Duration of Study

3. See [General Academic Regulations - Postgraduate Research Degree Regulations](#).

#### Mode of Study

4. The programme is available by full-time study.

#### Curriculum

5. All students shall undertake an approved curriculum as follows:

#### Compulsory Modules

Module Code	Module Title	Level	Credits
BE913	MRes Project	5	120
BE918	Professional Studies in Biomedical Engineering	5	10
BE919	Research Methodology	5	10

#### Optional Modules

No fewer than 40 credits from the list of optional modules:

Module Code	Module Title	Level	Credits
BE926	Biofluid Mechanics	5	20

BE927	Industrial Software	5	20
BE915	Medical Science for Engineering	5	20
BE923	Haemodynamics for Engineers	5	10
BE925	Numerical Modelling in Biomedical Engineering	5	10
BE903	Cardiovascular Devices	5	10
BE920	The Medical Device Regulatory Process	5	10
BE500	Entrepreneurship & Commercialization in Biomedical Engineering	5	10
BE916	Introduction to Biomechanics	5	10
MM506	Finite Element Methods for Boundary Value Problems and Approximation	5	20
MM508	Mathematical Biology and Marine Population Modelling	5	20
EF927	Design Management	5	10
EF932	Risk Management	5	10

### Examination, Progress and Final Assessment

6. See [General Academic Regulations - Postgraduate Research Degree Regulations](#).

### Award

7. **Degree of MRes:** In order to qualify for the award of the degree of MRes in Biofluid Mechanics, a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 180 credits, of which 120 must have been awarded in respect of the project.
8. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Biofluid Mechanics, a candidate must have accumulated no fewer than 60 credits from the taught modules of the programme curriculum.