

# Doctor of Engineering

## Programme Information

2022.01, Approved

### Overview

Programme Code	36336
Programme Title	Doctor of Engineering
Awarding Institution	Liverpool John Moores University
Programme Type	Professional Doctorate

### Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Doctor of Engineering - ENGD	N/A

Alternate Award Names	
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### External Benchmarks

Subject Benchmark Statement	
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## Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length Programme Length Unit
Full-Time, Face to Face	January	LJMU Taught	3 Years

## Aims and Outcomes

Educational Aims of the Programme	<p>An Engineering Doctorate provides the intellectual challenge of a PhD but places an emphasis on innovation and the application of knowledge to meet the needs of the economy and society. The programme is intended to: (a) to provide an alternative pathway for individuals to develop high level technical and interpersonal skills, and (b) to service the labour market demand for people with high level technical skills who are capable of leading industrial and business innovation. The aims of the programme are to: (a) Develop individuals who are capable of leading technical innovation within multi-disciplinary teams, who have the skills to be able to analyse the economic context of their projects, and are aware of social and ethical implications; (b) Develop individuals understanding in a particular specific area of interest by undertaking a research based project in association with appropriate University research groups and in conjunction with industry where appropriate;(c) Provide a route for knowledge exchange between University research and industry.</p>
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## Learning Outcomes

Code	Number	Description
PLO1	1	The creation and interpretation of new knowledge, through original research or other advanced scholarship, of a quality to satisfy peer review, extend the forefront of the discipline, and merit publication;
PLO2	2	A systematic acquisition and understanding of a substantial body of knowledge which is at the forefront of their academic discipline or area of professional practice;
PLO3	3	The general ability to conceptualise, design and implement a project for the generation of new knowledge, applications or understanding at the forefront of the discipline, and to adjust the project design in the light of unforeseen problems;
PLO4	4	Ability of make informed judgments on complex issues in specialist fields, often in the absence of complete data, and be able to communicate their ideas and conclusions clearly and effectively to specialist and non-specialist audiences;
PLO5	5	Ability to continue to undertake pure and/or applied research and development at an advanced level, contributing substantially to the development of new techniques, ideas or approaches;
PLO6	6	The qualities and transferable skills necessary for employment requiring the exercise of personal responsibility and largely autonomous initiative in complex organisations.

## Course Structure

Programme Structure Description	When a candidate has completed Stage 1 (8001ENGD Introductory module) and credit has been awarded the candidate can progress to Stages 2 and 3. For each of the Stage 2 modules the student's supervisor will report completion of each module to the relevant assessment board. The associated Pass grade will be recorded as unmoderated until the student's viva has been conducted. Upon completion of the Stage 3 module, the student's approved examination team will conduct a viva voce examination to determine if the student can demonstrate achievement of the outcomes detailed in the programme specification and QAA Qualification Descriptors. The maximum registration period for the Doctoral phase of is 48 months full-time and 84 months part-time. The maximum registration periods for Stages 1 and Stages 2 & 3 are 12 and 36 months respectively for full-time students, and 24 and 60 months for part-time students.
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<b>Programme Structure - 360 credit points</b>	
<b>Level 8 - 360 credit points</b>	
<b>Level 8 Core - 360 credit points</b>	CORE
[MODULE] 8001ENGD Introductory Module Approved 2022.01 - 30 credit points	
[MODULE] 8002ENGD Investigative Project Module A Approved 2022.01 - 90 credit points	
[MODULE] 8003ENGD Investigative Project Module B Approved 2022.01 - 180 credit points	
[MODULE] 8004ENGD Reflective Module Approved 2022.01 - 60 credit points	

## Teaching, Learning and Assessment

Teaching, Learning and Assessment	<p>A lead supervisor will be appointed to support the candidate. This supervisor will have experience of successful supervision at FHEQ level 8 and relevant subject/professional experience. Where appropriate candidates may be supervised by a team of no more than three supervisors one of whom may be based in the student's workplace. Where students are supervised within a team, the lead supervisor will be designated the main point of contact for the student. The candidate's relationship with the lead academic supervisor underpins successful research study. The University Code of Practice for Research Students and Supervisors provides advice on supervisory practice and emphasises the importance of regular contact between the lead supervisor and the candidate. Candidates studying part-time in the workplace and/or overseas will maintain contact through Skype and telephone meetings. Where learning is undertaken in the workplace, candidates will have an industrial supervisor who will be provided with appropriate support by the lead academic supervisor. The EngD programme is designed to enable candidates to meet the Learning Outcomes of a PhD by 'portfolio' rather than a traditional thesis. In this programme the delivery of research outputs and the candidate's progress is monitored and evaluated by six Progress Reports. This approach provides formal opportunities for candidates and supervisors to reflect on the progress of the research project, and facilitates effective project management. Assessment of all modular elements within the EngD prior to the viva voce must be subject to a double marking procedure.</p>
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## Entry Requirements

Type	Description
Alternative qualifications considered	<p>All applicants will be required to make a claim for Recognition of Prior Learning (RPL) at FHEQ Level 7 (up to 180-credits) against the Learning Outcomes for the Masters Phase (Programme Document Section 7). Consideration of RPL will be undertaken by the Faculty Recognition Group as required by the University Academic Framework. The entry criteria to the programme are: 1. Professional Experience: Applicants must have: (a) appropriate research and/or professional experience at postgraduate level. This could be evidenced through for example Chartered Engineer status or similar professional recognition; and (b) an industrial sponsor to provide and support the research project. 2. Academic requirements: (a) A Masters degree in a discipline appropriate to the proposed area of research. This will have included training in research and the execution of a research project. Applicants with a Masters degree which meets these requirements may move more rapidly into the Doctoral Phase FHEQ 8. Applicants whose qualifications do not meet these requirements may be asked to complete further study from the Faculty's MSc portfolio. (b) Applicants with a relevant Honours degree (Minimum 2.1) will need to demonstrate that their professional experience meets the FHEQ Level 7 Learning Outcomes for the programme, and may be required to complete taught modules from the Faculty's MSc portfolio which will include a module in Research Methods, and the MSc Project. 3. Applicants whose first language is not English will need to demonstrate a minimum IELTS score of 6.0 or equivalent.</p>

## Programme Contacts

### Programme Leader

Contact Name
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Ian Jenkinson

**Link Tutor**

Contact Name