

Product Design and Development Engineer Degree Apprenticeship BEng (Hons)

Product Design and Development Engineers work on all stages of product creation, modification, prototyping and introduction stages.

They support activities ranging from early concept feasibility and Computer Aided Design to modelling and final preparation for launch to customers. This includes working in concept studios, rapid prototyping, assembly, testing, validating and analysing performance. Typically they work closely with suppliers and managers in bringing new concepts to life or contributing to redesigns of existing products.

The apprenticeship is supported by the choice of two new degree courses:
 BEng (Hons) Mechanical Engineering Design or
 BEng (Hons) Automotive Engineering Design
 Degrees integrate with the apprenticeship standard and will assist in the generation of evidence for End-Point Assessment (EPA).

Delivery Features:

Block delivery 2x 3day block attendences per semester + weekly 1/2 day remote sessions
 Study contextualised to the workplace
 Innovative teaching & learning methods
 Integrated delivery with the MIRA Technology Institute

BEng (Hons) Automotive Engineering Design

	Semester 1	Semester 2	Semester 3
Level 4 16 Months	Engineering Science	Mathematical modelling for Engineers	Engineering Design, Materials and Manufacture
	Semester 1, 2 or 3 (Work Context module) Engineering Operations and General Skills		
Level 5 16 Months	Solidmechanics and Thermofluid Analysis	Vehicle Systems	Design, Material and Manufacturing Integration
	Semester 1, 2 or 3 (Work Context module) Engineering Product Analysis and General Skills		
Level 6 16 Months	Vehicle Dynamics, Structural Safety and Aerodynamics	Powertrain and Functional Safety	New Product Introduction and Project Management
	Semester 1, 2 or 3 (Work Context module) Individual Design Project		

BEng (Hons) Mechanical Engineering Design

	Semester 1	Semester 2	Semester 3
Level 4 16 Months	Engineering Science	Mathematical modelling for Engineers	Engineering Design, Materials and Manufacture
	Semester 1, 2 or 3 (Work Context module) Engineering Operations and General Skills		
Level 5 16 Months	Solidmechanics and Thermofluid Analysis	Instrumentation and Control	Design, Material and Manufacturing Integration
	Semester 1, 2 or 3 (Work Context module) Engineering Product Analysis and General Skills		
Level 6 16 Months	Mechatronic Systems and Automation	Applied Mechanical Science	New Product Introduction and Project Management
	Semester 1, 2 or 3 (Work Context module) Individual Design Project		

Entry at L4 - 48months, L5 - 32months, L6 - 16months, Funding rate £27,000