

Faculty of Science and Engineering

# **BEng (Hons) Manufacturing Engineering**

An accelerated two-year degree programme to  
enhance the skills of your workforce.

## **Contact us**

To discuss your requirements or to find out more about this course, please do not hesitate to contact us.

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## **Apply Now**

Visit: [www.wlv.ac.uk/Beng](http://www.wlv.ac.uk/Beng)

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In association with

**Black Country Skills Factory**





**The University of Wolverhampton is proud to offer the BEng (Hons) Manufacturing Engineering degree.**

With a shortage of skilled engineers in the region, developing and retaining manufacturing and engineering talent is crucial to business success. Created expressly with the needs of industry in mind, this programme is ideal for companies seeking to upskill their employees with minimal disruption and maximum impact, and has been developed in collaboration with a number of high-profile engineering and manufacturing partners, including UTC Aerospace Systems, Caparo Tube Components, TRW Automotive, Moog Aircraft Group, and Caterpillar UK.

Our comprehensive programme allows your employees to gain a full Bachelor's degree in just two years. This qualification is ideal for ambitious and highly motivated individuals who are ready to take your organisation forward and is suitable for apprentices or mature staff with a drive to gain a work-based qualification.

**Course structure and delivery**

This is an accelerated degree programme, delivered in two years. Each year has 45 weeks of learning, divided into 3 semesters. Employees will attend the University every Friday, and on 12 Saturdays each year.

To further develop the application of their learning in the workplace, your employees will engage in a number of work related projects throughout their degree programme. The next intake on this programme is September 2014.

**Facilities**

Delivered at Wolverhampton City and Telford Innovation Campuses, our facilities are comprehensive and include the very latest advanced manufacturing equipment including:

- titanium-capable direct metal laser sintering machine for product development
- CAD/CAM connected to a suite of CNC machinery
- scanning electron microscope
- virtual reality manufacturing software for design and simulated working environments
- automotive test laboratory.

**Course content**

We understand that every business has unique training priorities. The BEng (Hons) Manufacturing Engineering incorporates a wide range of modules that allow your employees to advance their knowledge in topics critical to your business. Throughout the design of this course, the Faculty of Science and Engineering consulted with a number of key industry representatives, to develop and refine a suite of modules that reflect essential skills demanded by the sector.

**Typical modules studied within the two-year study period include:**

**Year 1: Semester 1**

Engineering Mathematics  
Engineering Materials  
Engineering Mechanics

**Year 1: Semester 2**

Engineering Practice  
Electrical and Electronic Engineering  
Knowledge Transfer Project

**Year 1: Semester 3**

Automation and Robotics  
Analysing and Improving Processes  
Managerial Systems and Operations

**Year 2: Semester 1**

Materials and Manufacturing Technology  
Product Analysis  
Engineering Management and Quality

**Year 2: Semester 2**

Product Realisation  
CAD and Product Development  
Major Project

**Year 2: Semester 3**

Engineering Innovation and Enterprise  
Emerging Technologies  
Major Project (dissertation and presentation)

**Entry requirements**

Your employee must meet certain entry requirements to be eligible for the course.

- Mature applicants (over 24 years of age) with experience of working in a relevant industry will be considered, subject to interview.
- A HNC qualification in a relevant subject discipline.
- A and AS-level awards representing a minimum of 200 UCAS points (with at least 140 of these points gained from either two full, six-unit awards or one full, twelve-unit award).
- GCSE English and Maths at grade C or above or Key Skills Communication and Application of Number at Level 2.

**Course fees**

The course fees are £8,650 per year.

Fee subsidies of up to 20% may be available to SME's in the Black Country through the Black Country Skills Factory project. Please ask for details.




**Jay Patel**, Officer for Economic Partnerships and Investment, Wolverhampton City Council

**“ The University of Wolverhampton has created a truly innovative degree for industry. ”**