



Manufacturing Fact Sheet

Plymouth benefits from a thriving and varied advanced engineering sector, which includes medical, defence, transport, pipeline, composite and marine technologies.

Sector Overview

- 13,161 FTE manufacturing jobs (2017)
- 30,000 average advertised salary (2019)
- £928m GVA (2017)
- £70,512 GVA per FTE (2017)
- 3,785 students in Science and Engineering across the University of Plymouth and Plymouth Marjon University (2017/18)
- 510 Engineering and Manufacturing Technology apprenticeship starts in 2017/18

Specialist Companies

- Applied Automation
- Babcock International
- BD (Becton Dickinson)
- Bombardier Transportation
- Burts Chips
- Collins Aerospace
- Fine Tubes
- Hellermann Tyton
- Kawasaki Precision Machinery
- Mars Wrigley Confectionary
- Pipex px®, now part of NOV
- Plessey
- Princess Yachts International
- Rittal-CSM
- Schneider Electric
- The Barden Corporation
- Vi-Spring

Plymouth Manufacturers' Group (PMG)

Having recently celebrated its 40th anniversary, the PMG is an informal network of senior level people from manufacturing companies from across the Plymouth Travel-to-Work-Area.

It provides a convenient means of interchange of information, experience and opinion and a channel of communication between members of the Group, local authorities and other appropriate organisations.

It encourages and supports the orderly development of industry in the Plymouth area.

Members include all those listed above plus forty more.

University of Plymouth

The School of Engineering

Launched in 2017, the School of Engineering has a mission to build upon the University's existing reputation for world-leading research across marine

renewable energy, coastal engineering, autonomous marine systems, structures and materials, while developing new commercial partnerships and research collaborations. The School is home to a range of research facilities, such as the Coastal, Ocean and Sediment Transport (COAST) Laboratory, located in the Marine Building, and the Plymouth Electron Microscopy Centre (see below). Its academic programme accommodates around 1,000 students, who are working across subjects including Civil and Coastal Engineering; Mechanical, Marine and Materials Engineering; and Navigation and Maritime Science.

The Advanced Composites Manufacturing Centre

A leading composites facility based in the School of Engineering, which since 1987 has sought to bridge the traditional gap between academic research and the needs of industry.

Active in a wide range of projects, working with large and small companies, such as running short courses and workshops in composites design and manufacture, improving processes, testing materials and components, and solving manufacturing and materials problems.



Plymouth Electron Microscopy Centre (PEMC)

PEMC has been offering expert and specialist support to industry across a range of sectors for more than 30 years. A comprehensive range of light microscopes, electron microscopes, imaging processing and analysis software enables the facility to support industrial R&D alongside academic research.

In 2017, it was awarded £1.7 million by the European Regional Development Fund (ERDF) to launch the Plymouth Materials Characterisation Project (PMCP), which specifically gives Devon businesses from any sector free access to a specific electron microscope; the only publicly available FIB-SEM (focused ion beam, scanning electron microscope) in the south west, bringing 3D capability to PEMC.

Electron microscopy is largely a problem solving tool for industry – and the support offered is tailored to the needs of the individual business. So far, PMCP has supported Devon companies to do the following, all through a better understanding of the products and materials they use:

- identify the unique properties of their product
- carry out competitor analysis
- understand why a particular component is not working
- enter new markets with an existing product
- develop a new production process
- develop a patent application
- create stunning, high resolution images for promotional purposes.

Industry can benefit from using electron microscopy in terms of: - improved products and processes- improved quality control- reduction of waste (and therefore cost) - new product development- promotional images for web and printed materials.

Uses span manufacturing, engineering, textiles, electronics, biomedical, food and other sectors.



South West Manufacturing Advisory Ltd (SWMAS)

SWMAS design and deliver programmes of support that enable ambitious businesses to increase their productivity, improve operational efficiency, develop skills and reach their growth potential.

SWMAS work directly with manufacturers, on the shop floor delivering improvement programmes and at board level developing and refining strategy. It provides consultancy services, runs public funded programmes, deals with complex funding arrangements and supports businesses to leverage UK and European funding for growth and innovation.

City College Plymouth

The College's Regional Centre of Excellence for STEM provides state-of-the-art facilities for the advanced manufacturing sector. Working closely with industry partners, the College runs apprenticeships and university-level courses in mechanical design and manufacture.

Plymouth Science Park (PSP)

PSP is a world-class office, research and laboratory environment that provides the space, flexibility and support for technology, digital and science-based businesses to accelerate their growth and success.

PSP is investing in new enabling technologies, including a 3D printing suite, and work closely with Faculties and Institutes at the University of Plymouth to develop research collaborations and support enterprise.



Take Action

To find out more about what Plymouth offers the advanced manufacturing, or to discuss how our business support service can help meet your business needs, please contact:

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