

## Marine Sector Fact Sheet

**“Plymouth accounts for 9.16% of England’s entire marine industry”**

From the BRES, 2014 figures

**“7,100 Plymouth jobs are in marine manufacturing, which is 21% of the UK’s marine manufacturing capacity”**

### Sector Overview

- £31,700 average advertised salary
- Marine manufacturing GVA: per FTE: £52,090
- Marine manufacturing GVA: £408.6m
- Marine manufacturing employment: 7,900 jobs (6.1% of all Plymouth employment)

### Specialist Companies

ADPS (Auto Dynamic Positioning Services)

ARGANS

Babcock International Group

Interish

Marine Learning Alliance

MSubs

PML Applications

Sonardyne

Turnchapel Wharf

Applied Automation

Atlantis Marine Power

Fugro

Manuplas

Mashfords

Ocean Electric Power

Princess Yachts International

Thales UK

WITT

## Oceansgate

- Oceansgate occupies a 35 hectare site on the southern edge of Devonport Dockyard and forms a unique complex of industrial buildings and docks for commercial use with direct deep water access. It will bring together marine businesses to create a world-class hub for marine industries in Plymouth
- Oceansgate will be developed in three phases: phase one and two will develop new office and industrial space, and phase 3 will enable availability of docks, deep water jetties, land, offices and workshops

## The Marine Business Technology Centre

- The Marine Business Technology Centre will be based in the UK's first marine Enterprise Zone, Oceansgate
- It will connect marine related and supply chain businesses with the research knowledge base in Heart of the South West, and further outward
- Deliver an in-sea test facility focussing on testing photonics, data, sensors and instrumentation, applied autonomy, data processing and acquisition, environmental monitoring and manufacturing

## HM Naval Base Devonport

- Plymouth is home to the largest Naval Base in Western Europe
- Devonport Dockyard directly employs around 10,190 workers, made up of roughly 4,476 military and 5,714 civilians
- The activities undertaken at the Naval Base and Dockyard generate £637 million in GVA and provide critical competence in the deep maintenance of nuclear reactors, submarines and naval vessels
- Of equal importance is the valuable contribution to national defence made by the vessels docked at Devonport

## University of Plymouth

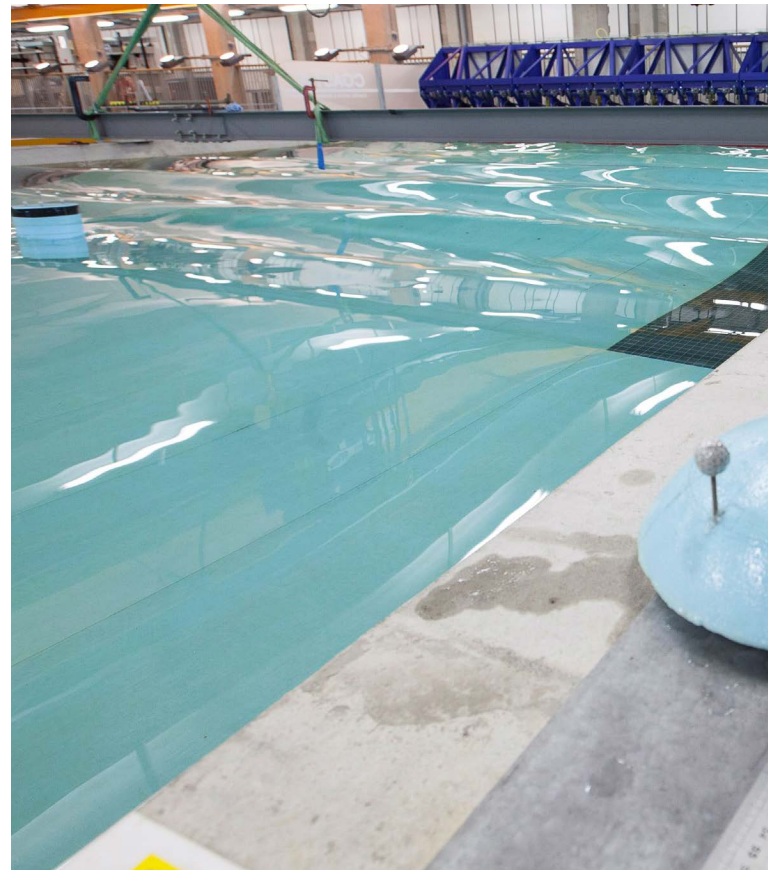
- The University of Plymouth is world-renowned for its research, teaching and training across the marine sciences
- There are around 2,600 students enrolled across a variety of marine-related programmes in the School of Biological and Marine Sciences, and the School of Engineering

## Marine Station

- The University has a range of facilities that are unmatched by almost any other university in the country, including a waterfront Marine Station, at Coxside, home to a scientific diving centre, aquaria, wet labs and the University's fleet of boats. Among them is a dedicated oceanographic research vessel, Falcon Spirit, which has capacity for 14 crew members, and can work up to 60 miles from port
- The University has significant underwater exploration capacity through its state-of-the-art Remotely Operated Vehicles which can explore, film in HD and conduct operations at depths in excess of 500m

## The Marine Building

- Located on the University campus, the Marine Building houses state-of-the-art research facilities, positioning Plymouth as a global centre for marine energy research.
- These include:
  - One of the most advanced wave tank and testing facilities in the country
  - Hydrodynamic test laboratory with tidal and wave test basins
  - A ship simulator which uses advanced computer imaging, projection, and a 270-degree screen
  - Dedicated technical support and office facilities for up to 150 marine institute researchers and technology developers



## Plymouth Marine Laboratory (PML)

- PML is an independent and impartial marine research laboratory, and registered charity, with a track record of over 40 years of innovative and globally recognised science on the interactions between the marine environment and society
- With 10% of its scientists in the top 1% of environmental scientists worldwide, PML is at the forefront of observing, understanding, modelling and forecasting marine ecosystems to underpin evidence-based solutions to societal challenges
- In addition to cutting-edge research, PML contributes to policy development, public understanding of science, capacity building in developing nations, as well as the application of science
- PML was listed 8th in the world in the latest Thomson Reuters top 30 Research Institutions in Oceanography and has partnerships worldwide in more than 60 countries and with over 500 organizations
- PML was announced as top UK institute (6th globally) in the 2014 International Centre for Climate Governance Climate Think Tank Ranking. In 2014 PML won the Environment and Conservation category of the Charity Awards for the “global strategic impact” of its Europe-Africa Marine Earth Observation Network project
- Its £20 million pound research facility on the Hoe is home to state-of-the-art facilities including the world's most powerful atomic force microscope that allows scientists to see individual strands of DNA; and PML's



Flow Cytometer Facility that can measure and count micro-organisms such as bacteria, algae and viruses

- PML is internationally recognised for being at the forefront of socio-economic marine environmental research

## PML Applications Ltd

- PML Applications Ltd was set up in 2002 and is a wholly owned trading subsidiary of Plymouth Marine Laboratory
- PML Applications Ltd is the gateway to accessing the latest marine research and technology for commercial use, providing outstanding marine consultation and services to a global client base. It is home to three Centres of Expertise working with industry such as shipping, marine renewable energy, oil and gas, shipping, aquaculture, ballast water and classification
- The Ballast Water Centre and the Centre for Marine Biofouling and Corrosion focus on biofouling management, the development and testing of antifouling technologies, development of innovative new ballast water treatment systems, and testing ballast water systems for efficacy, regulatory type approval and compliance with international and US regulations
- Communicating geospatial data effectively is what its third Centre of Expertise specialises in and through its interactive data visualisation tool is already proving very effective with industry clients, as well as with several EU funded projects. Services include ocean colour, water quality, aquaculture and fisheries management, ship, oil spill and internal wave detection, data management and visualisation such as for marine planning and protection, and airborne data processing

## The Marine Biological Association (MBA)

- The MBA is the longest established marine laboratory in the UK. Since its foundation in 1884, the MBA at Plymouth has had a rich history and has seen many highly significant scientific discoveries at its Citadel Hill laboratory
- Today, MBA scientists deliver an internationally-renowned programme of scientific research that is highlighted on these pages. Resident workers and visitors alike enjoy the high-quality facilities and services that we can provide. The MBA conducts, promotes and supports scientific research into all aspects of life in the sea
- The MBA have hosted seven Nobel Prize winners

## Sir Alister Hardy Foundation for Ocean Science (SAHFOS)

- SAHFOS is an international non-profit organisation that operates the Continuous Plankton Recorder (CPR) Survey, which is the most geographically extensive and longest running marine biological survey in the world
- SAHFOS research advises Governments and Corporations on global issues including pollution, climate change, biodiversity and over-fishing

## Marine Academy Plymouth

- Opened in 2010 for 11 to 18 year olds, and is the first of its kind in the UK
- Specialises in the marine environment, encompassing science and engineering, and focuses on employment pathways which are integral to a marine environment

## City College Plymouth

- Over 3,500 full-time students and nearly 9,000 part-time students
- Provides apprenticeships to foundation degrees in Engineering related subjects, including Marine Engineering, Electrical Engineering and Renewable Energy & Engineering
- New £13 million Regional Centre of Excellence for STEM opened in Autumn 2017, a vital facility for helping Plymouth employers meet their need for highly skilled technicians and apprentices

## Fishing Industry

- The fishing industry brings over £12 million in GVA to Plymouth each year, and accounts for around 15% of the entire English fishing fleet by jobs-supported
- Plymouth Fish Market is the largest fresh fish market in England, by landed weight. (Source: Annual Sea Fisheries Statistics 2015)

## Marine Leisure

- Princess Yachts International, one of the leading motor yacht manufacturers in Europe, builds its M Class yachts in Plymouth
- Plymouth has also hosted many global yachting events such as Vendee Globe, Rolex Fastnet, Bakerly Transat and America's Cup
- Plymouth boasts the second highest number of Gold Anchor marinas in the UK

## Turnchapel Wharf

- A 14 acre marine business park on the Cattewater in east Plymouth
- A former MOD site it has undergone a major transformation into a modern, thriving space providing offices, workshops and warehouses alongside 200m of deep water berthing, and is now home to a range of marine and blue tech businesses



## Take Action

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

### Enterprise and Inward Investment Team

+44 (0)1752 30485 | [invest@plymouth.gov.uk](mailto:invest@plymouth.gov.uk) | [investplymouth.co.uk](http://investplymouth.co.uk)



Invest in the marine sector