

Research and Innovation focus areas

- ▶ Research Chairs: Ocean Governance and Development in Africa; Shallow Water Ecosystems; Marine Spatial Planning; and Mariculture and Food Security.
- ▶ NMMU hosts the Institute for Coastal Marine Research (ICMR) with a focus on research areas which include plant, aquatic, fish and coastal ecology, zooplankton, algae, estuaries, oceanographic marine ecosystems, ocean currents and marine spatial planning.
- ▶ Shipbuilding with a focus on the design and construction of small vessels and specialised vessel niches
- ▶ Sustainable coastal livelihoods
- ▶ Coastal palaeontology and human origins
- ▶ Ocean energy
- ▶ Innovative technological innovations for the maritime industry

Our partners

NMMU works closely with a large number of national and international partners in advancing its scientific contribution to the blue economy.

They include:

- ▶ World Maritime University, Sweden
- ▶ Washington State University, USA
- ▶ Oldenburg University, Germany
- ▶ University of North Carolina, USA
- ▶ Universidade Federal do Rio Grandedo Sul, Brazil
- ▶ Plymouth University, UK
- ▶ Southampton University, UK
- ▶ Agder University, Norway
- ▶ Bayworld
- ▶ The South African Institute for Aquatic Biodiversity (SAIAB)
- ▶ Oceans and Coasts (O&C) division of the Department of Environmental Affairs
- ▶ South African National Parks (SANParks)
- ▶ Council for Scientific and Industrial Research (CSIR)
- ▶ South African Maritime Safety Authority
- ▶ Wärtsilä
- ▶ Transnet

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Maritime and Marine Sciences





The Maritime and Marine Sciences Strategy 2016 to 2020 is in the early stages of implementation. Some maritime and marine sciences academic programmes are already being offered, while various new multi-disciplinary qualifications and specialist modules will be phased in across various faculties over the next five years.

Our strategy is to develop a whole new range of maritime and marine education and training, research, innovation and engagement programmes to support Africa's blue economy

NMMU's Vice-chancellor Prof Derrick Swartz.

research and innovation initiatives needed to support growth in the oceans economy.

NMMU has established partnerships with universities in South Africa and abroad, as well as various maritime industries and government entities. These partnerships also contribute to NMMU's objectives for a sustainable oceans economy and related socio-economic development.

NMMU is also in the process of establishing a dedicated Maritime and Marine Sciences Campus, the first in South Africa. This is part of its strategic drive to spatially co-locate university, industry, business and government partners to develop and implement co-designed education, training, research and innovation initiatives geared to unlock the potential of South Africa's oceans economy.

Maritime and Marine Sciences fields of study already offered

- ▶ Maritime Studies
- ▶ Marine Sciences
- ▶ Oceanography
- ▶ Emergency Medical Care (EMC) with a marine and maritime dimension
- ▶ Training courses in respect of diving for marine research
- ▶ Short learning programmes relating to Marine Law and Fisheries Crimes

Maritime and Marine Sciences fields of study planned for 2017 onwards

- ▶ Marine Engineering
- ▶ Nautical Sciences
- ▶ Marine Spatial Planning
- ▶ Marine and Maritime Tourism with a particular focus on Cruise Tourism Management and Ecotourism
- ▶ Multi-disciplinary master's in Maritime Studies
- ▶ Maritime, shipping and ports management
- ▶ Maritime Logistics
- ▶ Law of the Seas
- ▶ Short courses and training programmes offered in response to the needs of the maritime industry

NMMU hosts the South African International Maritime Institute (SAIMI), which was launched in November 2015 through a partnership with the South African Maritime Safety Authority (SAMSA) and the Department of Higher Education and Training (DHET). SAIMI is well positioned to foster collaborative partnerships and linkages between the education and training sector and the maritime industry to facilitate the development of comprehensive, relevant and responsive skills training, education,

