

## What are job/ employment opportunities in the Marine Biotechnology Sector?

It offers job and employment in research, research institutions, health, nutrition, aquaculture

- Field Researcher or research assistant in the laboratory.
- Scientist in marine biotechnology, bioengineering, biochemistry, marine biology, data scientist.
- Environmental and aquaculture consultant, e.g. conservation, circular economy, climate change.
- Bio-entrepreneur.

## What are the training areas Seychelles will need to train its human resource to develop this sector?

- Microbiology
- Immunology
- Organic chemistry
- Marine ecology
- Chemistry
- Biology
- Molecular science
- Laboratory sciences



## What Seychelles need to do?

- Develop a marine biotechnology sector to create high value jobs
- Strengthen capacity of relevant public institutions and private operators.
- Increase knowledge on business opportunities
- Provide training to MSMEs
- Put in place a business technology innovation incubator



## MARINE BIOTECHNOLOGY

'Enabling Economic opportunities for Seychelles' Economy'



For more information please contact us:  
Tel +248 467 2300 | E-mail: [blueeconomy@gov.sc](mailto:blueeconomy@gov.sc)  
Website: <http://mofbe.gov.sc>  
Facebook: DBESeychelles



## What is Marine Biotechnology?

Marine Biotechnology is an area where products are derived or developed from a wide variety of marine animals and plants.

- It is carried out using biological resources.
- Is an innovative field of research in science and technology.
- It is a novel way to produce genetically modified food, drugs and energy.



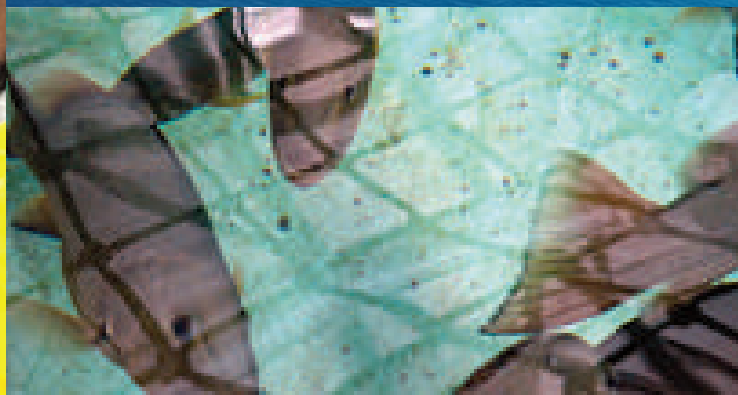
## What is Marine Biotechnology for Seychelles?

Marine biotechnology is identified in the Seychelles' Blue economy Roadmap as an emerging sector that could be a driving force for sustainable economic development. Moreover, it is recognized as an innovative means for economic diversification and subsequently for availing employment and business opportunities in the micro, small and medium sized enterprises (MSMEs).

Marine biotechnology in Seychelles is an emerging sector. Marine biotechnology has the potential to contribute significantly to sustainable economic growth and higher-quality businesses through the manufacturing of high-value products for the food, fashion, cosmetic and pharmaceutical industries from fisheries by products and other biological resources. It offers significant potential to fill market gaps for new products.

## What are examples of the potential use of Marine biotechnology?

- Medical applications
- Antibacterial agents
- Marine toxins
- Aquaculture
- Probing the marine environment



## What are the potential businesses in the Marine Biotechnology sector?

● **Healthcare and pharmaceutical applications:** Marine biotechnology has led to the discovery and development of advanced medicines, therapies, diagnostics, and vaccines.

● **Agriculture, livestock, veterinary products, and aquaculture:** Marine biotechnology has improved animal feed, produced vaccines for livestock, and improved diagnostics for detecting diseases such as BSE, foot and mouth disease, and salmonella.

● **Industrial processes and manufacturing:** Marine biotechnology has led to the use of enzymes in the production of detergents, pulp and paper, textiles, and biomass.

● **Nutraceuticals and food sector:** Marine biotechnology has led the biodiscovery of omega-3 & omega-6 oils derived from microalgae as well as carotenoids,

● **Energy production:** Through the use of microalgae technology or algal biomass for biofuel.

