With over 20 years of experience in France and abroad in the field of marine and coastal areas, BRL Ingénierie is a key player in coastal area development, protection and sustainable management.

BRL Ingénierie works on all the different physical, environmental and human aspects of coastal area issues, providing unequivocal technical expertise and a strategic vision of development.

**Fields of activity**

- Integrated Coastal Zone Management
- Marine Protected Areas
- Ecological coastal engineering
- Fisheries and aquaculture
- Erosion and sea floods
- Offshore and Oceanography

**BRL Ingénierie’s coastal area activities:**

**Key figures**

- 20 years of experience in this area
- Over 200 examples of experience in France and overseas territories
- Studies and consultancy assignments in more than 40 countries
- A network of over 800 coastal environment consultants
Integrated coastal zone management

BRL Ingénierie is a key player in integrated coastal zone management and sustainable development thanks to a holistic approach incorporating aspects that are:

- Physical;
- Environmental;
- Human and socio-economic;
- Institutional, regulatory and participatory.

Significant experience

France

AGIL (Aide à la Gestion Intégrée des Littoraux - integrated coastal management support) also involving IRD, IFREMER and CIRAD

Preparation of the Master plan for coastal area development in Languedoc-Roussillon (Coastal Area Taskforce)

International

Technical assistance on the Gambian Coast project for integrated coastal zone management (ICZM) and adaptation to climate change

National strategy for integrated coastal zone management in Morocco

Marine Protected Areas

BRL Ingénierie has excellent knowledge of the issues related to Marine Protected Areas (MPAs) thanks to a great many assignments to ensure sustainable and coordinated management of their resources and inherent activities.

Significant experience

France

Technical assistance for the creation of an observatory on biodiversity and usages for Port-Cros Marine National Park

Environmental assessment of the draft charter for the Calanques National Park

International

Med-PAN network 2013-2020 strategy and drafting of the Antalya road map for Mediterranean MPAs

State-of-the-art study of MPAs in fisheries management worldwide

Local area foresight study of Banc d’Arguin National Park, Mauritania

Conservation and sustainable use of coral reefs in the Meso-American Ecoregion (Honduras, Guatemala, Mexico, Belize)
Ecological coastal engineering
BRL Ingénierie’s ecological coastal engineering expertise focuses on several major assets:
• Expertise in design and works supervision;
• An innovation cluster focussing on mainstreaming ecological functions into coastal works;
• An R&D cluster focussing on the surveillance of the marine environment;
• A knowledge-dissemination cluster focussing on maritime subjects (guides / training sessions).

Significant experience
France
Yachting rest areas and eco-moorings in Bouillante, Guadeloupe
OMEGA Thau environmental management and risk prevention system addressing microbiological pollution in shellfish-farming and bathing areas of Thau lagoon

International
VULSACO programme (VULnerability of SAndy COast Systems to climatic and anthropic changes)
Installation of an innovative coastal protection structure on the Tel Aviv coastline, Israel

Fisheries and aquaculture
BRL Ingénierie has been working on aquaculture for more than 20 years with consulting assignments related to:
• Co-management of fisheries resources;
• Sustainable fisheries management and support;
• Structuring the value chain and building fishing ports;
• Aquacultural planning.

Significant experience
France
Expansion opportunities for Sète port and hinterland
Design of a third basin in La Cotinière fishing harbour on the island of Oléron to optimize fisheries and including a new fish market

International
Master plan for the development of port and fishing facilities in Mauritania
Sustainable aquaculture development plan for Mauritius

Unique experience on artificial reefs
BRL Ingénierie has developed unique experience on artificial reefs and has been working with contracting authorities at all the different stages involved for many years: feasibility, eco-design, underwater construction, and monitoring.
• 7 artificial reef projects in the Mediterranean Sea;
• Complete design and construction engineering services for the Prado Reefs Operation in Marseille, awarded the Grand Prix of Ecological Engineering by the French Ministry of Ecology, Sustainable Development and Energy;
• Co-organization of the Euro-Mediterranean Conference on Artificial Reefs for Marseille City Council;
• Production of a guidebook on the design, construction and management of artificial reefs for the Languedoc-Roussillon Regional Council.
Erosion and sea floods

Climate change is key in all BRL Ingénierie’s coastal erosion prevention and sea flood protection activities. We can be involved at any stage in the development of coastal risk prevention strategy:

- Hydrodynamic modelling of natural hazards;
- Local area vulnerability assessment;
- Design, and supervision of coastal area protection works;
- Adaptation of development policy and planning tools;
- Risk awareness-raising.

Emblematic coastal projects

Restoring the sea around Mont St Michel

Sète barrier beach protection - rehabilitation of the coastal area and an innovative protection structure (submerged geotubes)

Offshore windfields

A cluster of expertise

Having steered over twenty offshore wind farm projects including both fixed construction and floating wind turbines on the English Channel, the Atlantic and the Mediterranean coasts, BRL Ingénierie delivers assistance and advice at any stage of a project:

- Tendering for national MRE projects;
- Permitting and consent studies (environmental impact assessment, applications for permission to use public maritime property, consent for temporary use of public property, Natura 2000 impact statements...);
- Preliminary environmental assessment and project identification studies;
- Geophysical, biological or socio-economic consultancy assignments;
- Supporting consultation processes / public debate.

Offshore & Oceanography

Since 2000, BRL Ingénierie has been involved in marine renewable energy and physical oceanography as a technical assistance provider, advisor and design-build consultant on all subjects related to the environment, the management of usages and regulatory aspects of offshore activities.