

# UNIVERSITY/BUSINESS/GOVERNMENT PROJECTS

## UNIVERSIDAD TECNOLÓGICA DE BOLÍVAR

**Project:** Energy optimization for fluvial ships.

**Contact:** Bienvenido Sarria

**Area:** Energy optimization

**Telephone:** (+57) 5 6535367

**E-mail:** [bsarria@unitecnologica.edu.co](mailto:bsarria@unitecnologica.edu.co)

**Observations:**

The objective of the project is to investigate the process of conversion and use of energy in fluvial ships, built by COTECMAR, with the goal of identifying opportunities to use energy efficiently for each of the major energy services of the ship. It is essential to choose the technical and operational measures that would reduce the energy cost and the impact on the environment without diminishing the operational performance of the ship and the crew's comfort. This research uses thermo-economical methods for the analysis of processes.

**Project: Offsets used in the defense sector as a policy instrument to promote innovation in the productive sectors of Colombia: An analysis from the perspective of international experience.**

**Contact: Paola Amar**

**Area: Innovation Management**

**Telephone: (+57) 5 6535203**

**E-mail: [pamar@unitecnologica.edu.co](mailto:pamar@unitecnologica.edu.co)**

**Observations:**

**This project seeks to identify, using international best practices, the success factors achieved with offset contracts in the defense sector, especially in their role as policy instruments to promote innovation in the productive sectors of Colombia.**

**Project: Social and environmental audit of the plan formulation process for the management of water basins and wetlands in the state of Magdalena (Colombia).**

**Contact: Mauricio Rodriguez**

**Area: Environmental studies**

**Telephone: (+57) 5 6535506**

**E-mail: [mrodriguez@unitecnologica.edu.co](mailto:mrodriguez@unitecnologica.edu.co)**

**Observations:**

**This project is aimed at ensuring the quality and development of Territorial Arrangement Schemes through proactive control, verifying compliance with applicable regulations and with the set activities and budgetary schedule.**

**Project: Implementation of an energy management system at ARGOS S.A. (Cartagena)**

**Contact: Luis Morales**

**Area: Energy management**

**Telephone: (+57) 5 6535260**

**E-mail: [lmorales@unitecnologica.edu.co](mailto:lmorales@unitecnologica.edu.co)**

**Observations:**

The overall project goal is to implement an energy management system, based on the monitoring and control of indicators by area, activity and global, besides creating the human resource capacity of the plant to ensure a sustainable reduction of energy carriers and associated environmental impact.

**Project: IBERO-AMERICAN LABORATORY OF RESEARCH ON DEVELOPMENT AND CULTURE.**

**Contact: Alberto Abello**

**Area: Culture and Development**

**Telephone: (+57) 5 6535501**

**E-mail: [aabello@unitecnologica.edu.co](mailto:aabello@unitecnologica.edu.co)**

**Observations:**

The lab stems from an agreement of partnership and institutional cooperation with Universidad de Girona (Spain) which seeks to consolidate facts and concrete processes of knowledge sharing, resulting in the design and implementation of projects, exchange of faculty, researchers and students, organization of scientific and cultural events, training of cultural managers able to influence contemporary processes of development and culture and expansion of the study of cultural policies as a means for development. This research laboratory arises as a venue for the dynamic convergence of networking, research processes, scientific cooperation and exchange.

**Project: Identification of managerial and technological competencies of at least 22 organizations in Cartagena using the mapping methodology.**

**Contact: Luis Carlos Arraut**

**Area: Innovation Management**

**Telephone: (+57) 5 6535274**

**E-mail: [larrau@unitecnologica.edu.co](mailto:larrau@unitecnologica.edu.co)**

**Observations:**

**The project includes the following activities:**

- **Basic Mapping for participating companies and in depth analysis of companies done by visiting and interviewing the companies in their premises.**
- **Analysis in terms of technological and product areas of the needs of the Ministry of Defense and regional aerospace, defense and high-technology markets for the short, medium and long term.**
- **Identification of Colombian Technological or Product Clusters and the related companies, Universities and other organizations which should be considered as part of these Clusters.**
- **The structuring, posting and promotion of R&D and Industrial Capability Development Projects involving Client's local partners. The projects will address domestic and/or regional technological and product requirements, with the intended participation of foreign industry and university partners.**

**Project: Formulation and implementation of Social and productive projects by comprehensive sustainable development of fishing communities at Ciénaga Grande - Santa Marta.**

**Contact: Fabián Gazabón**

**Area: Environmental studies**

**Telephone: (+57) 5 6535251**

**E-mail: fgazabon@unitecnologica.edu.co**

**Observations:**

**Develop and identify 5 Social-productive projects that that consider as a base line of work economic activities natural of communities, strengthening the management capacity, the productive chain and respect for nature, so that over a period of 1 year, the basis for the improvement of living standards been established, and the same for the productivity and competitiveness of the Fishermen in La Ciénaga Grande de Santa Marta.**

**Project: Implementation of the comprehensive sustainable management model and productive chain of socio-productive projects of the fishing communities at Ciénaga Grande de Santa Marta Phase II**

**Contact: Luis Carlos Arraut**

**Area: Environmental studies**

**Telephone: (+57) 5 6535274**

**E-mail: [larrau@unitecnologica.edu.co](mailto:larrau@unitecnologica.edu.co)**

**Observations:**

**General Purpose: Formulate and implement 8 socio-productive projects and review and implementation of 5 projects developed under the Convention No 25 of 2009, for a total of 13 socio-productive projects, that considers as a base line of work economic activities natural of communities, strengthening the management capability, the productive chain and respect for nature, so that in a period of 7 months lay the groundwork for improving living standards, productivity and competitiveness of the fishermen at Ciénaga Grande of Santa Marta .**

**Project:** Making an investigation where describe and analyze the life conditions, economic and fiscal situation of communities in the catchment area of the exploratory drilling project in the blocks RC4 and RC5.

**Contact:** Jorger Alvis

**Telephone:** (+57) 5 6535631

**E-mail:** jalvis@unitecnologica.edu.co

**Observations:**

Making a research that describes and analyzes the conditions of life, economic and fiscal situation of the communities in the area of influence (Tourist and Cultural District of Cartagena de Indias, town of Santa Catalina, Bocachica, Caño del Oro, Punta Arena, Tierrabomba, La Boquilla, Manzanillo del Mar, Punta Canoa, Arroyo Grande, Arroyo de Piedra, Arroyo de las Canoas, Loma Arena y Galerazamba) of the exploratory drilling project in Blocks RC4 and RC5.

To expand the scope of project activities, to include the next topics:

- Analysis of the Governance Indicators of Tourism and Cultural District of Cartagena de Indias.
- Political analysis of the municipality of Santa Catalina and the cultural and tourist district of Cartagena de Indias.
- Expanding the number of questions in surveys of quality of life in the project sites
- Policy, investment and tax analysis of Cartagena, Santa Catalina and the department of Bolívar
- Workshops on prioritizing projects with the communities under study
- Workshops on empowerment, leadership and community management
- Other activities associated with the development of socio-economic study and implementation of the methodologies of social investment agreement proposals.

**Project: Research of market to identify key elements to promote and encourage increased consumption of natural gas and develop an innovation plan 2011 2021.**

**Contact: Paola Amar**

**Telephone: (+57) 5 6535203**

**E-mail: [pamar@unitecnologica.edu.co](mailto:pamar@unitecnologica.edu.co)**

**Observations:**

**General Purpose: conduct a market study to identify the key elements to promote and encourage increased consumption of natural gas and develop an innovative plan from 2011 to 2021 to establish the basis for generating a culture of innovation aimed at the satisfaction target market and thus improve the competitiveness of Surtigas.**

**Especific objectives:**

- **Design a tool for primary data collection**
- **Get the key elements of analysis for research and development of new products or technological channels that increase the consumption of natural gas**
- **Set the vision of business innovation of Surtigas for 2011 2021, aligned the company's strategic planning**
- **Conduct an analysis of strengths, weaknesses, threats and opportunities for Surtigas in the technological innovation field.**
- **Setting the strategic innovation plan Surtigas 2011 2021**
- **Define the programs that allow Surtigas consolidate their competitive advantage through its ability to generate products and processes with high added value.**
- **To propose the organizational structure to facilitate the implementation of the plan proposed innovation and its relationship with strategic partners for implementation.**
- **Design and implementation of corporate innovation platform in Surtigas SA**



**Project: Project of management of research programs of Cotecmar**

**Contact: Paola Amar**

**Telephone: (+57) 5 6535203**

**E-mail: [pamar@unitecnologica.edu.co](mailto:pamar@unitecnologica.edu.co)**

**Observations:**

**Directing the activities of research and technological development and innovation of COTECMAR, through conducting a prospective planning exercise of its research programs, that allows to establish a plan for medium to long term to maximize outcomes in science and technology and focused meeting the strategic objectives.**