

•CPI•

This center began operations on January 2010, focusing its activities on the pursuit of technological options at the industrial level, to make processes more efficient, reduce impact, and venture into topics such as renewable energy.

MISSION:

Perform technical research applied to industrial processes, electronics, renewable energy, and management based on current knowledge and using cutting-edge engineering.

VISION:

To be recognized as the country's main research center for the generation of useful technology and its applications in the area of industrial processes.



Excelencia que trasciende
DEL VALLE
 GRUPO EDUCATIVO

Contact:

MSc. Gamaliel Zambrano
 zambrano@uvg.edu.gt
 Office E-110
 2364-0336/40 Ext. 470

UVG Research Institute

18 av 11-95 zona 15
 V.H. III, Guatemala 01015
 Tel. 2368-8310
 Fax. 2369-8336
uvg.edu.gt/investigacion/



•CPI•

**Center of
 Industrial Processes**



**INSTITUTO DE
 INVESTIGACIONES**
 UNIVERSIDAD DEL VALLE DE GUATEMALA

Areas of Research

1. RENEWABLE ENERGY

- Evaluation and production of biofuels.
- Characterization and classification of biodiesel.
- Efficient processes for the production of biodiesel.
- Use of solar power in Guatemala.
- Evaluation of heat transfer in fins and cylinders.

2. ELECTRONICS, ROBOTICS, AND AUTOMATION

- Non-conventional control methods
- Robotic and electronic systems with medical applications.

3. NATURAL RESOURCES (ENVIRONMENT)

- Assessment of water treatment systems.
- Evaluation and use of waste products.

4. INDUSTRIAL ENGINEERING

- Assessment and development of SME in Guatemala
- Careers in Engineering

5. FOOD SECURITY



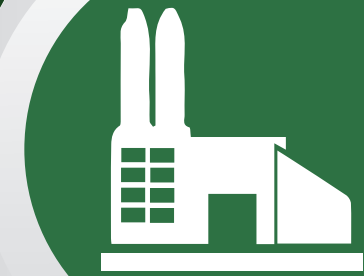
6. INFRASTRUCTURE (slope stabilization)

- Wood for structural use
- Applications in Geographic Information Systems in Guatemala

7. AEROSPACE ENGINEERING

- Design microsattellites
- Evaluation of waste and its uses.

8. INNOVATION, BUSINESS, AND ECONOMICS



The goal of the Center is to develop technology applied towards the solution of national problems related to industrial processes, alternative sources of energy, and business management.