

Community Project

Global Grant GG2460713

Education in renewable energies and entrepreneurship for socioeconomically vulnerable people, Cali, Colombia.

Development of local economies



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OBJECTIVE

Increase the possibilities of access to decent employment and entrepreneurial opportunities for young students of the University in situations of social and economic vulnerability, through the training laboratory in renewable energies and their integration into the Bioenergy cluster of Valle del Cauca.

The specific objectives are:

- 1-Implement training strategies in renewable energies and skills of being that allow students and graduates access to decent employment in the labor market of the environment.
- 2-To develop capacities in entrepreneurship and innovation that will enable students and graduates to create entrepreneurial projects in renewable energies with environmental impact.

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BENEFICIARIES

>500



Socioeconomically vulnerable students, especially those between 16 and 32 years of age, from southwestern of Colombia, they lived in conditions of extreme poverty with limited access to education and other problems such as unemployment, forced recruitment, and involvement in illegal economies, among others.

During the first year of operation of the laboratory, it is expected to benefit up to 120 students/year it is estimated to benefit up to 500 people over a period of 5 years.

The training activities to be developed by the university through the laboratory will be free of charge for all students.

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IDENTIFICATION OF NECESSITIES

- Education is one of the most effective strategies to transform the social, cultural, economic, political and environmental realities of a country. However, in countries such as Colombia, the low rates of access and coverage are alarming. According to the National Higher Education Information System (SNIES, in spanish), for the year 2020 the coverage rate in higher education was 51.6%, a figure that represents 23.5 percentage points below the average of OECD economies, which is 75.1%.
- The Institución Universitaria Antonio José Camacho (UNIAJC), is a public higher education institution located in Cali-Colombia. In 2023-1 it trained 12,391 students, 60.91% of whom come from different regions of the country, from rural and urban areas, and mostly from the southwest of Colombia. The southwest of Colombia has historically lived in conditions of extreme poverty with limited access to education and other problems such as unemployment, forced recruitment, and involvement in illegal economies, among others.
- Companies in the bioenergy sector require personnel and new entrepreneurial contractor companies in the design, assembly, installation, operation and maintenance of solar farms due to the high demand that the country currently has.

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Our Alliance: Rotary Club Cali San Fernando & Antonio Jose Camacho University "UNIAJC"

The university has the experience and capacity to implement projects for vulnerable communities, including victims of violence, offers academic programs aligned with the purposes of the Rotary Fund, and is nationally recognized for its good cooperation practices.



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The Project: Training & Laboratory

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The project will be developed from 3 components:

Component 1- Technical training in renewable energies and skills of being. This component includes activities such as paid and unpaid internships in companies that are part of the Valle del Cauca Bioenergy cluster, academic events, and individual monitoring of the process of each beneficiary.

A. Fundamentals of solar photovoltaic energy. **10 hours**

B. Solar Resource (movement of the earth, solar radiation, radiation measurement) – **16 hours.**

C. Components of a Photovoltaic Solar Installation (solar panels, Inverter, batteries, transformers, electrical protection, mechanical structure) - **18 hours.**

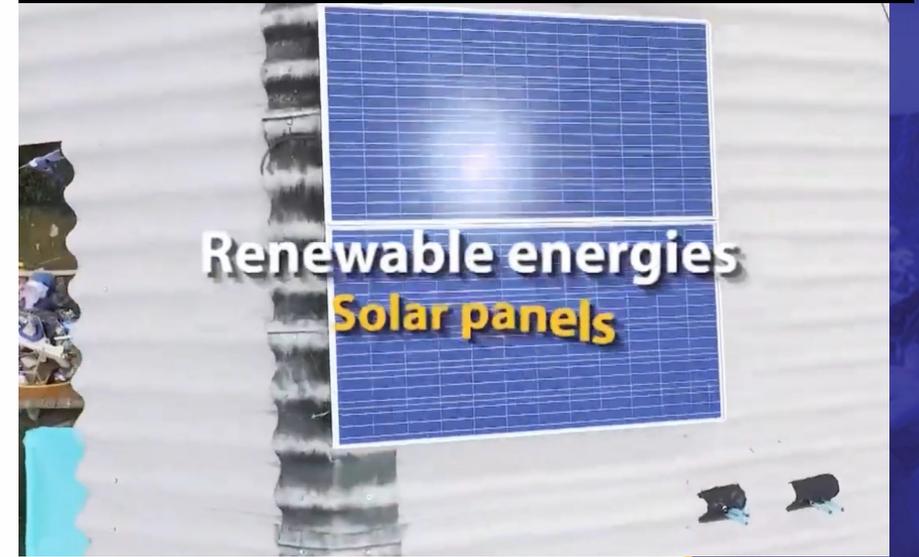
D. Dimensioning of off-grid and grid-connected solar photovoltaic systems (selection equipment, wiring, load, fault identification, testing) - **20 hours.**

Component 2 – 36 hours. Entrepreneurship training. Creation of sustainable solutions that respond to environmental problems. Implement the University entrepreneurship route to create business models in renewable energies.

Sustainable entrepreneurship plan, Business model, market analysis, financial aspects, alliances and networks, social and environmental impact, technical feasibility assessment.

Directed independent work. 20 hours.

Component 3 – 20 hours. Articulation of the University with companies of the Bioenergy cluster. Potential contractors or buyers of services that will be connected to the laboratory. Continuous meetings with cluster organizations.



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Our commitments

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ROTARY SPONSOR COMMITMENTS

National and international Rotarians as well as sponsors will participate in all stages of the project through virtual meetings and communications (phone, WhatsApp, e-mail) on an ongoing basis. Specifically, they will have these responsibilities:

Contribute financial resources to the Global Grant.

Support the Rotarians of Rotary Club Cali San Fernando, local club of the project, in all decisions and analysis of possible unforeseen events that may happen in the development of the Global Grant.

Inform and communicate to their club members and their District of the activities developed in Colombia and supported by their club.

Review the interim and final reports presented by the local club, as well as recommending and suggesting improvements in the execution of the project.

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SUSTAINABILITY

FREE ACCESS TO STUDY

Access to university is free and subsidized for the majority of students and is sponsored by the national government for vulnerable people and those affected by armed conflict.



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BUDGET				
#	Category*	Description	Cost in local currency	Cost in USD
1	Equipment	Laboratory equipment	82.500.000	20.992
2	Personnal	Teachers and academic structuring	69.500.000	17.684
3	Personal	Project coordinator and administrative staff to assist the project	5.650.000	1.438
4	Management	Administration and Financial cost	4.720.000	1.201
5	Operation	Unforeseen - rate and others	4.000.000	1.018
Total budget:			166.370.000	42.333



FUNDS REQUIREMENT

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FINNANCIAL GG2460713 TRAINING AND LAB - CALI - VALLE USD			42.333
		CLUB & DISTRICT	GLOBAL FUND TRF
		AMOUNT USD	AMOUNT USD
DISTRICT DESIGNATED FUND	D4281	1.000	800
CASH FROM ROTARY CLUB	CALI SAN FERNANDO	100	
CASH FROM ROTARY CLUB			
CASH FROM ROTARY CLUB			
CASH FROM INTERNATIONAL ROTARY CLUB	D4130	2500	2000
CASH FROM INTERNATIONAL ROTARY CLUB			
INTERNATIONAL DISTRICT DESIGNATED FUND			
INTERNATIONAL DISTRICT DESIGNATED FUND			
SUBTOTAL FINANCING TO DATE		3.600	2.800
TOTAL FINANCING TO DATE			6.400
TOTAL REQUIERED			35.933



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INTERNATIONAL SPONSOR

We are looking for Rotarians from abroad to fall in love with the project and give us their financial support.

¡Trust US!



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THE WORLD NEEDS MORE
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We hope your Club and your District are on this path



Join Us in this Project!!
Thanks!!!

Avoid recruitment by armed groups and drug trafficking

Young people in normal working life and entrepreneurs providing service to society.

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