

# Internship Opportunity: Solar-Powered Irrigation Systems Project



Pteah Baitong's mission is to transform agriculture in Cambodia by introducing high-quality, clean energy technologies and innovative agri-services specifically designed for smallholder farmers.

We are looking for a full-time intern.

**Position** : Electrical Technician Intern

**Field of work** : Solar irrigation system

**Location** : Phnom Penh (office) and Kampong Thom (installation site)

**Duration** : 01 July 2025 to 30 September 2025

## Job Summary:

The intern will assist in the design, installation, testing and maintenance of the solar irrigation system. This role provides hands-on experience in renewable energy application in agriculture, including solar PV system, water pumps and irrigation technologies. The intern will work closely with engineers and field technicians to support project implementation and data collection.

## Responsibilities:

- **Technical support:** Assist in the design and sizing of solar PV system, design of pump control system, and support the installation.
- **Select the components:** Assist in selecting new products (solar panel, inverter, motor pump, remote control, energy meter, etc.)
- **Data collection and documentation:** collect data from the field. Water requirement and loss.
- **Energy optimization:** improve the efficiency of the system.
- **Supporting current solar-powered pumping system:** Assist in resolving issues with current solar-powered pumping stations if needed.

## Requirements:

- University students studying Engineering and sciences, Electrical/Mechanical Engineering, Renewable Energy, Environmental science, Agricultural Engineering or other related fields.
- Basic knowledge of solar PV systems, irrigation techniques, and water pumps is preferred.
- Willingness to travel to rural areas.
- Available for full-time work (25% fieldwork on site).
- Good communication and teamwork abilities.

**Learning Outcome and Benefits:**

- Understand the integration of solar technology with agriculture.
- Gain practical experience in solar-powered Irrigation as a Service.
- Insights into sustainable agriculture and renewable energy.
- Training and mentorship.
- Networking with professionals and farmers.
- Enhanced communication skills.
- Clarified career goals in agriculture and environmental science.

**Working Days:**

- Monday to Friday.
- Work Hours: 8:00 AM to 5:00 PM.
- Holidays: Saturdays, Sundays, and public holidays.