



Professional Training Program on

SUSTAINABLE AND SMART SHRIMP FARMING

09 – 14 March 2026

Asian Institute of Technology (AIT), Thailand

Program Overview

Global aquaculture is transforming rapidly under the pressures of climate change and sustainability challenges. This 6-day program offers an in-depth understanding of sustainable shrimp farming practices and smart technologies, featuring expert-led lectures and hands-on field exposure in Thailand, a global leader in shrimp aquaculture innovation.

Key Focus Areas:

- ✓ Integration of sustainability and profitability in shrimp farming
- ✓ Adoption of smart and climate-resilient technologies
- ✓ Practical learning through case studies and farm visits

Program Objectives and Learning Outcomes

The training aims to build participants' technical and managerial capacity to implement sustainable and smart shrimp farming systems.

By the end of the program, participants will be able to:

- ✓ Apply sustainable farm management and biosecurity measures
- ✓ Utilize IoT and data-driven monitoring systems for efficiency
- ✓ Improve water quality and reduce environmental impacts
- ✓ Evaluate farm performance using economic and ecological indicators
- ✓ Develop climate-resilient farm action plans

Program Structure and Content

The course combines technical sessions, group exercises, and field exposure visits for an immersive learning experience.

Main Learning Modules:

- ✓ Global and regional trends in shrimp aquaculture
- ✓ Sustainable aquaculture and nature-based solutions (NbS) in shrimp farming
- ✓ Pond design, pond preparation, feeding, and water management practices
- ✓ Biosecurity and health management strategies
- ✓ Disease prevention, risk management, and early warning systems
- ✓ Application of smart technologies and automation tools in shrimp farming
- ✓ Waste management and nutrient recycling techniques
- ✓ Climate-resilient and Integrated Multi-Trophic Aquaculture (IMTA) Systems
- ✓ Market access, traceability, and certification standards (ASC, BAP)
- ✓ Economic and investment perspectives in smart aquaculture
- ✓ Field exposure to model shrimp farms and technology demonstrations

Training Components:

- ✓ 3 days of expert-led classroom sessions
- ✓ 2 days of field visits to shrimp farms and research facilities
- ✓ 1 day of group action plan and experience-sharing workshop



Target Participants

Designed for professionals and organizations working across the aquaculture value chain.

Ideal participants include:

- ✓ Shrimp farmers and aquaculture practitioners
- ✓ Fisheries and environmental officers
- ✓ Researchers, academicians, and extension workers
- ✓ Agritech entrepreneurs and private investors
- ✓ NGO and development professionals

Program Details



Duration

6 Days (09 – 14 March 2026)



Venue

Asian Institute of Technology (AIT),
Pathumthani, Bangkok, Thailand



Program Fee

USD 1,500 per participant (includes tuition, materials, working lunch, and field visits; excludes accommodation and travel)



Language

English (Thai interpretation available during field visits)



Certificate

Certificate of Completion awarded by AIT Extension

Registration Information

Registration Deadline

31 January 2026

(Regular Registration)

15 February 2026

(For Thai nationals or on-arrival visa participants)

Key Contact Persons

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For Registration & Course Information:

