

Country: Vietnam	Placement Code: CTU-5	Project type: Super-intensive culture of white leg shrimp
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Internship Placement

Organization: College of Aquaculture and Fisheries, Can Tho University

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1. Project work description

White leg shrimp (*Penaeus vannamei*) was first introduced to Vietnam in 2001 for hatchery and culture models in permitted areas. It is then permitted to culture popularly in the country since 2007. After a decade of rapid development, total culture area and production of white leg shrimps were about 100,000 ha and 400,000 tons, respectively. Shrimp culture are mainly in intensive and recently super-intensive systems with yields of 20-40 tons/ha/crop. Shrimp culture are practiced in green-house lined-bottom ponds or tanks (500-1000m³/tanks, pond), applying recirculating systems or bioflocs systems. Shrimp culture can be applied with one or two-phased culture methods. The internship student(s) who apply to work on this topic is welcomed and can do the following activities:

- Practice at CAF-CTU:
 - o Sett tank culture systems;
 - o Practice water treatment;
 - o Practice seed selection and nursing (phase 1) applying bioflocs and/or recirculating systems;
 - o Practice grow-out (phase 2) applying bioflocs and/or recirculating systems;
 - o Measure water quality (bioflocs and recirculating);
 - o Observe shrimp growth performance
- Visit to super-intensive shrimp farms in Bac Lieu province

2. Placement description

Shrimp culture unit of the College of Aquaculture and Fisheries, Can Tho University is located in the Campus 2, Xuan Khanh ward, Ninh Kieu district, Can Tho city, Vietnam. Can Tho city in the center of the Mekong River Delta (along the Bassac river). The shrimp culture unit uses composite tanks with various sizes (10-100 m³) for PL nursing and grow-out phases. Other supported equipment/tools for operation are also available. In addition, the College of Aquaculture and Fisheries – Can Tho University (CAF-CTU) also has a large number of 10-100 m³ composite tanks for year-round culture of white leg shrimp applying bioflocs systems and recirculating systems, for experimental and commercial production purposes.

Supper intensive shrimp farms in Bac Lieu at 50-500 ha/farms, 500-1000 m²/ponds. It is about 120 km from Can Tho city and nearby the coast. Some well-known companies will be visited are Viet Uc company and Long Manh company.

3. How to get there?

There are several ways to get to Can Tho city. If the international students, they can arrive in Tan Son Nhat international airport (Ho Chi Minh city) or Can Tho International airport (Can Tho city). In case of Tan Son Nhat int'l airport, students can take a taxi to Mien Tay bus station (30-45 minutes; US\$ 10) and then a bus from Mien Tay bus station to Can Tho (about 3,5 hours; US\$ 7-8). If Can Tho Int'l airport is by taxi (about 20 minutes, US\$ 7-8).

4. Living conditions

There are available cheap hotel for rent surrounding the university with the cost of IS\$ 20-30 USD/day.

Rooms of the int'l dormitory of the University is also available if booked in advance with the cost of 100-200 \$/month without or with air condition. Meal costs US\$ 1.5-2.0 on average.

5. Climate

Can Tho city locates in tropical region. Therefore, the weather is warm all year round, but there are two seasons a year, dry season from December to April and wet/rain season from May to November to October. The average temperature is about 27°C (often occur in April or May) and lowest is about 20°C (occur in December or January). The average rainfall is 1,850mm.

6. Culture

It is important to respect local culture and traditions. Cover-up dresses are required. Shoes or sandal does not matter but most of the time you will need to walk; therefore, light sport shoes/trainers will be suitable. Dress conservatively; casual clothing is suitable while working at the hatchery - T-shirts, shorts and sandals are appropriate.

7. Host arranges:

- Dormitory type accommodation nearby
- Subsidized rate for food wherever possible
- Work space and computer and internet facilities
- Materials and animal for the study

8. Interns are responsible for the followings:

- International airfare
- Transportation from and to the airport
- Fees for visa/passport
- Food and drinks (approx. about US\$ 1.5-2 per meal)
- Any costs of trips, trainings, and others arranged personally
- Insurance and costs of damages due to personal negligence
- Tuition fee to be discussed

9. Miscellaneous

Travel medical kit, flash light, umbrella or rain coat, few books, a towel and toiletries. In fact, these are available locally at cheap prices.



Supper-intensive culture in ponds and tanks (at the College of Aquaculture and Fisheries)