**Research Project Details for Graduate Research Assistant (GRA) Recruitment**

**Research Project Title**

Elucidation of High-antioxidant Diatom as Feed Additive in Enhancing Antioxidant Defence, Stress, and Disease Resistance of *Litopenaeus vannamei*

**Details of Primary Supervisor**

1. Name: Dr. Norazira Binti Abdu Rahman
2. Department and University: CHINA-ASEAN College of Marine Sciences
3. Email address: norazira.abdurahman@xmu.edu.my
4. Research interests: Microalgae; Marine Biotechnology; Feed Additive; Antioxidant; Aquaculture; Stress Mechanism

**Details of Research Project**

1. Duration: 2 years
2. Monthly allowance: Performance-based (max. RM 2.000.00)
3. Summary: We seek dedicated students to join our research team, aiming to transform shrimp aquaculture. The global shrimp industry faces environmental stress, diseases, and low yields, posing risks to food security. Environmental stressors and high stocking densities harm shrimp. Our project explores the potential of a particular diatoms as a feed additive to combat crowding stress and pathogenic challenges in *Litopenaeus vannamei* (whiteleg shrimp). While prior research suggests algae may help with crowding stress, the mechanisms are not fully understood.
4. Location: Xiamen University Malaysia, Selangor, Malaysia

**GRA Requirements:**

Number of Master places available: 1

1. Background in biotechnology, aquaculture, marine sciences, biology, or a related field.
2. Strong research interest and proactive approach.
3. CGPA >3.00.
4. Prior experience in algae culture/shrimp culture, and/or molecular analysis is advantageous.

**Remarks:**

1. Monthly allowance provided

2. Scholarship for study fee up to 100% available (Terms and conditions applied)
3. Potential research attachment (min. 1 semestar) at Xiamen University's main campus (in China)
4. Opportunity to participate in international conference
5. Potential Collaboration: University Putra Malaysia, Universiti Malaysia Terengganu, The University of Tokyo, CPF (Asia Aquaculture) [Industrial]