



• Why is this interesting to me?

- Taiwan's Ornamental Fish Industry leads the world in many aspects including software technology, product quality and peripheral products. Industry value is estimated at NT\$2 billion, with 70% of the value coming from Pingtung County.
- This program was established in 2016 to increase the international competitiveness of the industry. In addition to training the next generation of talents for the industry, research and academic activities at the program will also strengthen fish breeds, feeds, aquarium equipment and design, transportation, health management, disease control, and vaccine technologies.

• What should I expect to learn?

- Fish Breeding and Feeding Technology
- Fish Facility and System Research and Development
- Fish Industrial Marketing
- Fish Vaccinology and Immunology
- Fish and Shellfish Immunity, Biological Defense, Fish Diseases, Vaccine
- Marine Biotechnology

• Learning objectives

- At the end of the program, graduates shall be able to:
- to perform aquatic animal disease diagnostics and vaccine development, breeding, aquarium equipment research, and marketing.

• How long do I experience learning?

- Master of Science, 1-4 years.
- Doctor of Philosophy, 2-7 years.

• Course activities

Students are allowed to choose from four different curriculum modules:

- (1) Ornamental fish and Aquatic Animals breeding and development,
 - (2) Aquarium equipment and system development,
 - (3) Ornamental fish and Aquatic Animals marketing, and
 - (4) Ornamental fish disease diagnostics and vaccine development.
- Specific vaccine research project
 - Industry internship
 - Lectures by internationally renowned researchers and NPUST experts
 - Field trips

• Highlights of research

- Ornamental fish feed
- Fish vaccinology and immunology

• Career path / opportunity

- Industry research and operations
- Academia

• Foreign Teachers

- Prof. Alexandra Adams, University of Stirling, UK
- Prof. Øystein Evensen, Norwegian University of Life Sciences, Norway
- Prof. Ikuo Hirono, Tokyo University of Marine Science and Technology, Japan
- Prof. Terutoyo Yoshida, University of Miyazaki, Japan
- Prof. Yung-Fu Chang, Cornell University, USA
- Prof. Kimberley Dawn Thompson, Moredun Research Institute, UK
- Prof. Takashi Aoki, Waseda University, Japan

• Cost of program*

- Per semester Tuition fee: (M.S.) USD1,653; (Ph.D.) USD1,851
- Per credit hour fee: (M.S./Ph.D.) USD132

* All fees are subject to change without prior notice due to currency fluctuation and/or unforeseen economic circumstances. Cost estimation is based on 30.2465 TWD = 1 USD.

- Scan QR for more information and updated course syllabus



- Contact person

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