



# **2023 Professional Master Degree Program in Fishery**

**(Major: Fishery Development)**

**Nanjing Agricultural University**

February 2023

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## **Wuxi Fisheries College of Nanjing Agricultural University**

Nanjing Agricultural University (NAU), founded in 1902, is a state key university and on the list of “Double First-Class” university project under the Ministry of Education of China. With agriculture and life sciences as its orientations, NAU has a harmonious development of diverse branches of learning including agriculture, science, economy, management, engineering, art, law, etc. During its over 120 years of education, NAU has graduated more than 300,000 talents including 60 academicians.

Wuxi Fisheries College of Nanjing Agricultural University (WFC), located in Wuxi City of Jiangsu Province, was jointly established by Freshwater Fisheries Research Center of Chinese Academy of Fishery Sciences (FFRC) with NAU in 1993, and started MSc education in 1996. Currently, it provides 2 PhD programs respectively in Aquaculture (first-class discipline) and Hydrobiology, and 3 MSc programs in Aquaculture, Hydrobiology and Fishery Development; besides, it has 1 postdoctoral station for Aquaculture. Meanwhile, WFC is among the first institutes that set up Professional Master’s Program (PMP) in Fishery development. So far, it has granted 2,300 students with bachelor degree, more than 110 PhD degrees and more than 800 master degrees, among which 101 are international students have graduated since the international education program launched in 2011.

In 2011, WFC obtained the ISO9001 quality management system recognition. Right now, there are 28 professors, 44 associate professors, 14 doctoral supervisors, 50 master supervisors. Since its establishment, it has undertaken over 1600 national-level, provincial and ministerial-level international projects, and it has won 11 nationals, 75 provincial and ministerial level awards for S&T progress, and 447 patents for invention. Since 1981, FFRC began to organize international training programs, so far, nearly 6000 fishery technicians and officials from 134 countries and regions have been trained here. The trainees spread across 5 continents, and most of them have become technical backbones or industry leaders in their own countries. Among them, there are more than 600 officials at the bureau level and nearly 100 officials at the ministerial level. They play an important role in the fishery field of their respective countries. Meanwhile, WFC/FFRC has dispatched over 50 fishery experts to more than 30 developing countries such as South Africa, Egypt, North Korea, Laos, Bangladesh, Iran, Myanmar, Tajikistan, Namibia, Mozambique, to provide technical consultation and trainings. In 2014, WFC/FFRC was designated as the FAO Reference Centre for Aquaculture and Inland Fishery Research and Training, and established two international joint laboratories.

A team of high-level, reliable English proficiency and rich management experiences has been forged during the long period of international training and education. The postgraduate education programs of WFC are based on supervisor-responsible system and allocated with professional management team to make full advantage of team-leadership. In 2021, FFRC was

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approved as the first batch of “China-Africa Joint Center for Modern Agrotechnology Exchange, Demonstration and Training”. WFC also strictly adhere to the quality management standard of ISO9001 system for its course arrangement to teaching evaluation; it demonstrates the Chinese characteristics while absorbing the merits of world-famous universities, and strives for high quality and utmost effect.

Being jointly established by NAU and FFRC, the college has a very strong scientific research strength with both advanced experiment equipment and other perfect facilities for teaching, research, practice and living. It has two campuses with an area of 26 ha in total, a library with over 30,000 books and periodicals, as well as its own periodical publication, the "Scientific Fish Farming". In addition, the college has 15 multimedia classrooms, 2 multi-function halls, 5 meeting rooms, 1 dormitory building, and a hotel with 71 standard rooms, a Chinese restaurant, a western restaurant and a Halal restaurant. The outdoor football ground, basketball court, tennis court, and the indoor gym, badminton court, table tennis rooms, billiards room, etc. are open to all participants. Moreover, the college owns one shuttle bus, one minibus, and several cars for daily and urgent use.

With the motto of "honest, pure, diligent and benevolent", the university is striding and shaping itself toward “world-class, Chinese-featured and NAU quality”.

## **Academic Education Programs Sponsored by the Ministry of Commerce of PRC**

Academic Education Programs sponsored by the Ministry of Commerce of People’s Republic of China is designed to foster high-end business officials and managerial personnel for the recipient countries since 2008, offering one-year and two-year master programs as well as three-year doctoral programs for the purpose of educating high-end and inter-disciplinary talent working in the applied fields of government, trade, foreign affairs, agriculture, technology, education, culture and health, building intellectual capacity and facilitating the economic and social development of the recipient countries. These programs provide assistance to governmental officials, research fellows, and senior managerial personnel on their master and doctor education in China, which are fully conducted in English. Admission requirements include a bachelor’s degree, relevant working experiences, and decent physical conditions, essential for the high-compact curriculum and research experiments.

Starting from 2008, nearly 2000 students from developing countries have attended these programs, until now, except for those who are in the middle of their studies, half of them have graduated and obtained master degrees. These graduates are now working in their specialties back in home and undertaking an increasingly significant role in the economic development cooperation between China and their home countries.

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As for the positive effects and good results brought by these programs in strengthening economic ties and friendship between China and the recipient countries, the Ministry of Commerce of People's Republic of China will continuously intensify its efforts in enlarging the enrollment scale and improving the quality of education.

According to the requirement of the Ministry of Commerce, P.R. China, Wuxi Fisheries College of Nanjing Agricultural University will undertake **2023 Professional Master Degree Program in Fishery** from **Sept 1, 2023 to Aug 31, 2025**. The project aims to make full use of the strong international education power of Nanjing Agricultural University, give full play to the unique advantages of aquatic sciences, and train high-level talents in fishery and aquaculture for other developing countries. The orientations of research cover aquaculture technology, nutrition of aquatic animal and feed development, fish genetic breeding, healthy aquaculture, fish diseases prevention and treatment, fishery environmental protection, fishery economics, bio-technology, etc. It is committed to meet the urgent needs of vast developing countries for highly educated and skilled talents in fishery. The duration of this program is **2 years**. Those who successfully complete their studies will receive a diploma from Nanjing Agricultural University and a Master's degree in Agriculture (Title: Fishery development).

Joining in this MSc program, you would have unparalleled opportunities to learn, to practice; to share and to grow!

### **I Program Description**

#### **Prospective Students:**

Our prospective students are officials or technicians with a bachelor's degree in Fishery and Aquaculture, and those with relevant working experience in Fishery and Aquaculture will be preferred.

#### **Program Objective:**

To cultivate senior inter-disciplinary and practical fishery talents and practitioners for the developing countries with the following capabilities:

- A profound knowledge of basic theories and professional knowledge of fishery science, familiar with the world fishery S&T development and equipped with a comprehensive knowledge structure;

- A spirit of innovation and practices, capable of independently engaging in aquaculture technology research, application, development, dissemination and extension, professional education of the fishery field and rural developing tasks;
- Good at innovative thinking, able to carry out independent basic research in fisheries and aquaculture.
- A rigorous style of study, good morality, committed to promoting the development of fisheries and agricultural industries through strengthening S&T cooperation between his/her country and China.

### **Enrollment Plan:**

In 2023, we plan to enroll **20** overseas students in this master program, majoring in **Fishery Development**. The duration of this program is **2 years**.

## **II Education Plan**

Our master degree program is a two-year full-time program. Students enrolled in this program are expected to complete the coursework, conduct research based on lab work or investigation, and write a thesis within 2 years.

Language of instruction: While all non-Chinese speaking students are required to take one course on the Chinese language learning, the language of instruction of the program is English.

### **1) Orientation**

Before formal coursework starts, admitted students are required to take a one-week orientation session in China. The orientation session, led by prominent scholars and managerial staff, serves as a general introduction to China, the program and the college.

### **2) Formal Coursework**

Our formal coursework covers the contents of general situation of agriculture and fishery, basic theories of fishery science, practical technologies, etc. A more schematic layout of the coursework is listed as follows:

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Type	Course title	Credits	Class hours		Instructor
<b>Compulsory session</b>	Practical Training	6	-	Mandatory	-
	Academic Standards and Thesis Writing	1	16	Mandatory	LIU Bo
<b>Compulsory Course</b>	Chinese Language and Culture	3	48	Mandatory	ZHANG Lin
	Research on the History of Science and Technology	3	48	Mandatory	JIANG Gaozhong
	Modern Agricultural Innovation and Rural Revitalization Strategy	2	32	Mandatory	MIN Kuanhong
	Progress on Modern Fishery Development	3	48	Mandatory	ZHU Jian
	Case Studies and Discussions of Modern Fisheries	2	32	Mandatory	JIANG Gaozhong
	Fishery Policy and Management	2	32	Mandatory	JIANG Gaozhong
	Aquaculture Technology	2	32	Choose 2 out of 5	WEN Haibo
	Conservation and Utilization of Fishery Resources	2	32		XU Dongpo
	Aquatic Animal Diseases Diagnosis and Control	2	32		XI Bingwen
	Aquatic Environment Protection and Treatment	2	32		MENG Shunlong
	Feed Preparation and Feeding Technology	2	32		REN Mingchun
<b>Optional Course</b>	Fishery Economy and Management	1	16	Optional	YUAN Yuan
	Chinese Fishery Culture	2	32	Optional	JIANG Gaozhong
	Aquatic Product Safety and Quality Control	2	32	Optional	WU Wei
	Modern Aquatic Breeding Science	2	32	Optional	DONG Zaijie

**The total credits shall not be less than 29 credits, including 7 credits for compulsory session and no less than 22 credits for courses.**

Classes will incorporate a mix of lectures, seminars, lab work, case discussions, tutorials, study tours and presentations.

### **3) Field Study**

Field trips will be arranged for students to visit China's fishery management agencies, fishery institutions for research, education or technical extension, fish farms, hatcheries, and processing plants in some of the major fishery and aquaculture areas such as Jiangsu Province, Zhejiang province, Shanghai city and Beijing city, to gain first-hand knowledge on fishery and aquaculture practices under various changing conditions in the reform and opening-up process of China.

### **4) Independent Research**

Students are required to come to WFC with practical problems to be addressed which have to do with the fishery and aquaculture development of the student's own country. With the guidance of a supervisor, a student is expected to carry out independent research on a prudently selected research topic related to fishery, including the design of necessary experiment or practices, lab work, result analysis, etc., based on which the final thesis would be written.

### **5) Thesis**

Master thesis: By the end of the first semester, a student shall choose or be allocated with a professor as his/her supervisor, and determine the subject matter on the basis of a real problem to be solved in his/her own countries. In the second semester, students are expected to draft the research plan and initiate the research, and at the end of the semester, students need to pass an oral defense for their research proposal. In the beginning of the third semester, students will further carry out their research and thesis writing. In the fourth semester, students should finish their thesis writing and pass the final defense.

Thesis shall be written in English with a Chinese abstract.

### **6) Degrees**

A professional master degree of fishery development will be conferred upon a candidate in this master program after his/her successful completion of required credits and thesis.

## **III Profiles of Instructors (Partial)**

WFC boasts of first-class faculty composed of distinguished scholars and accomplished practitioners, who have been actively engaged in the study and research of fishery and aquaculture science, accumulated rich experiences in international exchanges and communications in fishery, and widely acknowledged as experts in their own field. Core faculty of WFC is listed below.

### **XU Pao**

Professor, PhD/Master Supervisor

Main research fields: Fish genetics and breeding, healthy aquaculture, large water purification fishery

Email: xup@ffrc.cn



**GE Xianping**

Professor, PhD/Master Supervisor

Main research fields: Aquatic animal nutrition and feed, healthy aquatic breeding and management

Email: gexp@ffrc.cn

**YANG Jian**

Professor, PhD/Master Supervisor

Main research fields: Evaluation and protection of fishery ecological environment, biological monitoring of pollutants in aquatic environment, habitat reconstruction of aquatic organisms based on biological indicators such as otoliths, and biodiversity protection

Email: jiany@ffrc.cn

**FU Hongtuo**

Professor, PhD/Master Supervisor

Main research fields: Aquatic biology, aquatic genetics and breeding, breeding of special aquatic products

Email: fuht@ffrc.cn

**DONG Zaijie**

Professor, PhD/Master Supervisor

Main research fields: fish genetics and breeding, molecular biology

Email: dongzj@ffrc.cn

**SHEN Huaishun**

Professor, PhD/Master Supervisor

Main research fields: Economic Crustacean Diseases and Biotechnology

Email: shenhs@ffrc.cn

**LIU Bo**

Professor, PhD/Master Supervisor

Main research fields: Aquatic animal nutrition and epigenetic regulation, aquatic animal stress related signal pathways and functional feed research and development, new Chinese herbal medicine, microbial preparations, etc

Email: liub@ffrc.cn

**XI Bingwen**

Professor, PhD/Master Supervisor

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Main research fields: Fish diseases, pond microecology, stress mechanism of aquatic animals, and ecological prevention and control technology of bacterial diseases

Email: xibw@ffrc.cn

**XU Dongpo**

Professor, PhD/Master Supervisor

Main research fields: Conservation and utilization of fishery resources, large water surface aquaculture technology

Email: xudp@ffrc.cn

**XU Gangchun**

Professor, PhD/Master Supervisor

Main research fields: Reproductive Physiology and Ecology, Molecular Endocrinology, Pond Engineering Recirculating Aquaculture, Innovation of Fine and High-Efficiency Models

Email: xugc@ffrc.cn

**ZHU Jian**

Professor, Master Supervisor

Main research fields: Healthy Aquaculture and Fish Breeding

Email: zhuj@ffrc.cn

**CHEN Jiazhang**

Professor, Master Supervisor

Main research fields: Fishery ecological environment monitoring and protection, aquatic product quality and safety control technology, breeding environment restoration, healthy breeding, ecological environment evaluation, etc.

Email: chenjz@ffrc.cn

**WU Wei**

Professor, Supervisor for MSc students of WFC

Main research fields: pollution ecology and environment ecology, microbial ecology, quality safety and risk assessment of fish products

Email: wuw@ffrc.cn

**YOU Yang**

Professor, Supervisor for MSc students of WFC

Main research fields: inland fishery resources, high-value species protection and utilization, aquaculture and enhancement in inland waters, open water aquaculture

Email: youy@ffrc.cn

### **TANG Yongkai**

Professor, Supervisor for MSc students of WFC

Main research fields: Fish functional gene, germplasm resource assessment and molecular breeding

Email: tangyk@ffrc.cn

### **JIANG Gaozhong**

Professor, Supervisor for MSc students of WFC

Main research fields: fishery history and development, fishery laws and regulations

Email: jianggz@ffrc.cn

## **IV Financial Aid**

The Chinese Ministry of Commerce will provide "Chinese Government Scholarships" to admitted students from the developing countries. These scholarships cover both tuition and living expenses. They also include a round-trip international airfare for all the students for coming and returning, and another round-trip international airfare for home visit (between the academic years). In terms of living expenses, it is 3000 RMB/month for the master program. There is also a one-time settlement allowance of 3000RMB/person for coming to China.

If a student expects to have his/her spouse, children, relatives or friends to visit him/her during the stay in Wuxi, the visitor will have to bear all the expenses by himself/herself.

## **V Application**

### **1. Requirement**

All applicants must meet the following admission requirements:

- 1) Applicants must be non-Chinese citizens from developing countries, not older than 40 years old (born after September 1, 1983), with a valid passport, or any other identification certificate sufficient to verify his/her nationality;
- 2) Applicants must have attained a Junior College degree or above;
- 3) Applicants must be proficient in English. Non-native English speakers or candidates whose undergraduate education was not conducted in English are required to submit a test score of TOEFL or IELTS as proof of English proficiency. Applicants with the following scores would be considered competitive:
  - TOEFL 100 or above in iBT (Internet-Based TOEFL);
  - TOEFL 600 or above in PBT (Paper-Based TOEFL);
  - IELTS 6.0 or above in overall band score.
- 4) All applicants shall be in good physical conditions and carry no infectious diseases which may have a serious impact on public health or fall into any of the

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health situations prohibited by China's Entry-Exit Inspection and Quarantine Laws and Regulations. No severe hypertension, cardiovascular disease, diabetes, cancer or other serious chronic diseases, mental illness or infectious diseases that may pose a significant public health risk, recovery from major surgery or acute illness, or severe physical disability. Pregnant women are not allowed to participate and will be withdrawn from the program if they become pregnant while studying in China.

- 5) Only applicants recommended by the Economic and Commercial Counsellor's Office of Chinese Embassy in the country that accords with the candidate's nationality will be considered.

## 2. Procedures

### 1) Application to Nanjing Agricultural University

Please download the attached application form of NAU (or visit NAU website for overseas admission <http://coieen.njau.edu.cn/info/1122/4523.htm> and download the application form), fill it online and please pay attention to the information below while filling:

- (1) In the scholarship source column fill with "Chinese Government Scholarship (Master's Degree Program)";
- (2) After filling in all the required information, print the form, put on a hand-written name and date, and then post a photo on it.

### 2) Application to Chinese Government Scholarship

Please visit the online application system of Chinese Scholarship Council at <https://studyinchina.csc.edu.cn/#/login>, and register for an account. Select the program "Chinese Government Scholarship", fill in all the required information, and an application form will come into being. Print out the form, put on a hand-written name and date, and then post a photo on it. To complete the form successfully, please note the following information:

- (1) The agency No. of Nanjing Agricultural University is **10307**; Major is "Fishery Development" with type B;
- (2) The CSC code number gained from filling online will be used when filling visa application form (JW201 form).

### 3) Materials

Documents		Requirements	Original copy	Photocopy
1	NAU Application Form	Please download the attached form or download from NAU website, fill it in, print it out, sign, date, and post a photo on it.	1	1
2	Chinese Government Scholarship Application Form	Please visit <a href="https://www.campuschina.org/">https://www.campuschina.org/</a> , fill in the application form, print it out, sign, date, and post a photo on it.	1	1
3	Degrees	An original copy and a photocopy need to be prepared for each degree.	1	1
4	Official Transcripts	Transcripts must list all courses taken and all scores	1	1

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		obtained.		
5	Personal Statement	Personal statement must be written in English and be some 1000 words in length. It shall cover such essential elements as applicant's academic background, work experience, achievements, and future career plans, including a research proposal at NAU.	1	1
6	CV	In English.	1	1
7	Recommendation Letters	Two recommendation letters are required: one by a superior in the institution where the applicant works; the other by a professor who knows the applicant well.	1	1
8	English Language Proficiency Test	Applicants who are not native English speakers or whose undergraduate education was not conducted in English shall provide TOEFL or IELTS test scores.	1	1
9	Physical Examination Form	The health form shall be issued within one month before the submission of application, showing that the applicant carries no infectious diseases which may have a serious impact on public health or fall into any of the health situations prohibited by China's Entry-Exit Inspection and Quarantine Laws and Regulations.	1	1
10	Photocopy of a Valid Passport	The passport must be a personal regular passport. All successful candidates must enter China and register with Peking University using the same passport as used for applying for the program.	0	2

#### 4) Submission

- 1) Submit all the application materials listed in the above table in both hard copy and scanned copy to the Economic and Commercial Counsellor's Office of Chinese Embassy. Hard copy must include both the original copy and the photocopy, as indicated in the table. For emails and addresses of the Economic and Commercial Counsellor's Offices, please visit <http://www.china-aibo.cn>.
- 2) Submit a written request to the Economic and Commercial Counsellor's Office of Chinese Embassy for an official recommendation letter and clearly state:
  - a) Whether the applicant is willing to be considered for a similar program at other universities if the programs at WFC are already full.
  - b) Other special requests if any.
- 3) After being verified by the ECC Office, above materials should be clearly scanned, and sent to Ms. Li Feifan and You Lei NAU via email: [lifeifan@ffrc.cn](mailto:lifeifan@ffrc.cn), [yulei@ffrc.cn](mailto:yulei@ffrc.cn), for further contact and assurance.

#### Reminders:

- a) All the documents to be submitted should be in Chinese or English. Otherwise, a notarized copy in Chinese or English is required.
- b) An original copy of degrees, transcripts and language certificates must be presented for on-site verification.
- c) Applicants will get back all the hard-copy materials, both original copies and photocopies from the Economic and Commercial Counsellor's Office.

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If admitted, they must take the documents to China and submit them to the Wuxi Fisheries College during registration in September.

- d) None of the materials submitted to the Wuxi Fisheries College will be returned. For important documents such as degrees and transcripts, a stamped copy issued by the institution where the applicant received his/her degrees will be accepted as a replacement of the original copy. In this case, the original copy must be presented for on-site verification.

### **3. Deadlines**

The application deadline for this program is **June 6, 2023**.

## **VI Admission**

The Admissions Committee of Wuxi Fisheries College of NAU makes final admission decisions. No explanation will be made regarding admission results.

Admission letters will be sent by the end of August, 2023. They will include other necessary documents for visa processing.

## **VII Registration**

Registration will take place in September 2023. The exact date will be specified in the admission letter.

## **VIII Contacts**

Contact person: Ms. Li Feifan; Mr. You Lei; Ms. Zhanglin

E-mail: lifeifan@ffrc.cn, youlei@ffrc.cn, zhanglin@ffrc.cn

Telephone: (86-510) 85555796

Fax: (86-510) 85555796

Website:

For NAU: <http://coieen.njau.edu.cn/index.htm>

For WFC/FFRC: <https://www.ffrc.cn/English.htm>