



China Aid Degree Education Programs of Ministry of Commerce PRC



# 2024 Master Program In Software Engineering

## Catalogue

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Issued in 2024

## **I. Program Description**

### **1. General Information**

#### **(1) Program Introduction**

The China aid degree education program of Ministry of Commerce People's Republic of China is designed to foster high-end business officials and managerial personnel for the recipient countries, 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 the in-service governmental officials, research fellows and senior managerial personnel on their master and doctor education in China, which are fully conducted in English. Because of the short educational system, bachelor degree is a basis and working experiences in corresponding field is preferred, which will help the students understand the learning content timely and adequately. Good health condition is also required which will promise the students to adapt the high strength study and gain the master degree finally.

These programs are playing an increasingly significant role in economic and trade cooperation between the receipt countries and

China, getting high attention from their governments.

Since 2017, Nankai University is approved by the Ministry of Commerce, to undertake the Master of Software Engineering Program (2-year master program). The College of Software now is enrolling the eighth batch of students, cultivating talents, enable them to master the frontier technology in Software; establish professional mode of thinking; get firm grasp of professional technology and skills in Software and relevant subjects so as to improve the service level of their home countries.

Admission requirements include bachelor degree, relevant working experiences, and decent physical conditions, essential for the high-compact curriculum needed for the degrees.

We believe that by attending the programs and achieving the degrees, you will embrace a successful career and brighter future.

## **(2) Prospective Students**

Our prospective students are mid-to-senior level officials or technical managers from the government, universities, research institutions and other public sectors, who meet the academic required by Nankai University, have relevant IT degrees, and good mastery of English

language.

### **(3) Program Objective**

Cultivate high-end, compound, applicative talents in the field of Software and Computer.

### **(4) Enrollment Plan**

<b>Program</b>	<b>Enrollment Plan</b>	<b>Teaching Language</b>	<b>Educational System</b>
2024 Master Program Software Engineering	45	English	Two-year

### **(5) Financial Aid**

A) Free of tuition fees, teaching materials fees, research fees, English teaching fees, graduation thesis guidance fees;

B) Provide free on-campus accommodation;

C) Provide living allowance: 3000 yuan/person/month;

D) Provide one-time relocation fee: 3000 yuan/person;

E) Provide comprehensive medical insurance of China;

F) Provide a free round-trip international air ticket;

G) All degree students are required to attend the annual assessment;

H) Other fees shall be managed and used by the Ministry of Commerce or the school, and shall not be paid to students. The Ministry of Commerce provides financial assistance only within the academic system. Students who delay graduation for some reason will not receive continued funding.

## **2. University Information**

### **(1) Introduction to Nankai University**

A key multidisciplinary and research-oriented university directly under the jurisdiction of the Ministry of Education, Nankai University, locates in Tianjin on the coast of Bohai, near China's capital Beijing, was founded in 1919, and it is one of the most famous universities in China. Nankai University is one of the comprehensive universities with the widest range of disciplines. It features a balance between the humanities and the sciences, a solid foundation and a combination of application and creativity. The university has disciplines such as literature, history, philosophy, economics, management, law, science, engineering, agriculture, medicine, teaching and art.

Nankai University has developed broad international communications by establishing exchange and collaborative relationships with more than 320 international universities and academic institutions. Nankai University will implement the "Global Nankai" strategy. In the need

of State Aid Education, Nankai University relying on its education resources and advantages, combined with computer and software disciplines, is committed to the training of specialists in the field of Computer and Software, thus undertake this program.

## **(2) Introduction to College of Software**

The College of Software was established in 2002, it is one of the first National demonstration Software colleges approved by the Ministry of Education and the State Development Planning Commission. Software Engineering Discipline is the main discipline of our College, after fifteen years of development, it has developed a system of bachelor, master and doctor as complete training system. After many years of accumulation, Software Engineering of Nankai University is in the first group of national key disciplines approved by Chinese government, and being selected as key discipline in Tianjin city.

There are many excellent teachers in College of Software, Nankai University. Their research interesting includes System software, Software Methods and Performance, Parallel Algorithm Design, Software Security Technology, Data Engineering and etc. They undertake multiple National and Ministerial projects, and have published quite amount of high-level papers. Most of our teachers

have oversea research and study experiences, thus they can be very well in English teaching and guidance. Besides, the College has established ties with Research Institutes and Industry, such as establish Joint Research Institute with Chinese Academy of Sciences and Huawei Company, proving practical environment for talent cultivation.

### **(3) Living Conditions on Campus**

Tianjin is located beside Bohai sea, its weather type is continental climate. Its annual average temperature ranges from 11.4 ~ 12.9 ° C. The coldest time is in January, the average temperature is - 5 ~ 3 ° C; the hottest time is in July, the average temperature is 26 ~ 27 ° C.

This program is based in two campuses: TEDA (Tianjin Economic Development Area) campus and Jinnan campus. Accommodation is arranged according to the actual situation between these two campuses. TEDA campus locates at core center of Binhai district, with flourishing community and complete supporting facilities. Life is convenient with all kinds of financial institutions, hospitals, catering and leisure facility surrounding the campus. Jinnan Campus covers an area of 3688 mu, 15 colleges are located here, we have 5 oversea student apartments with 3 oversea expert apartments. We own 700

dormitories, could accommodate 1000 persons in dining-hall one time.

Single room is provided for each international student. It also equips with TV, air conditioner and furniture, besides, public washing machines are provided. Catering students with different nationalities and various dietary habits, canteens provide delicious food for international students.

The campuses are equipped with badminton court, tennis court and gymnasium; modern library and public library surround the campus. Besides, cable network and wireless network service is provided, Preliminary treatment can be provided in the infirmary in campus.

### **3. Teaching Arrangements**

#### **(1) Course Arrangements**

Students must obtain as least 36 credits for graduation, including 21 credits for compulsory courses and 15 credits for optional courses.

(a) Compulsory Courses (at least 21 credits should be obtained)

Course Name	Credit
China Panorama I	3



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China Panorama II	
Chinese Language I	3
Chinese Language II	3
Programming with Higher Level Language	3
Software Engineering	3
Computer Algorithm Design and Analysis	3
Academic Writing and Ethics	3

(b) Optional Courses (at least 15 credits should be obtained)

Course Name	Credit
Principles and Technologies of Database System	3
Web Application Development	3
Machine Learning	3
Principles of Artificial Intelligence	2
Intelligent Mobile Development	3
Introduction to Leading Software Technology	2
Computer Vision	3
Introduction to E-Business	2
Open-source Software	2

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Artificial Intelligence of things	2
"See the world from Nankai" lecture series	1
Deep Learning	2
Experiments of Elementary Programming	0
Data Structure	0

### (c) Teaching Staff

Teachers of program from The College of Software, The College of Computer, The College of Artificial Intelligence, The College of Economic and The College of Commerce, The College of Chinese Language and Culture, including 24 professors, 42 associate professors and 21 lecturers, most of them have PhD and overseas research or business experiences. Among all the teachers, 47 of them could lead English teaching, 39 of them are qualified supervisors for master programs.

### (2) Teaching Schema

The program is full-time teaching. Most courses combine theory with practice and can be executed in work. They can be taught with various teaching methods, such as discussion and case analysis, etc.

### **(3) Class Sessions**

Students shall register at Nankai University from September 2024, and finish it within two weeks since registration. Students are supposed to graduate and depart from China before July 2026, in case of completion of obtaining a degree.

### **(4) Dissertation**

#### **(a) Specific Requirements for Graduation Dissertation**

The dissertation should reflect that the students have indeed mastered theory and knowledge about software engineering, and have new insights about the latest research topic. In addition, the students should have the ability to do scientific research independently. When all courses are passed, students will continue to prepare their dissertation, specifically, it contains literature survey, thesis proposal, research, experiment execution, theory analysis and writing dissertation. The main body of the dissertation normally no less than 20000 words. When the thesis proposal is passed, students should take no less than one year on the paper work.

#### **(b) Requirement for Oral Defense**

No less than five experts (own senior professional technical title) are invited for dissertation appraisal, among of them, at least two of them are experts from industry. The applicant's tutor should not be invited

as paper reviewer. When the paper is sent to paper reviewers, their names should be not revealed, their review opinions must be sealed. Two months before defense date, the paper should be sent to paper reviewers.

Paper defense should be completed within one year, when the applicants pass all the course tests. The Thesis Supervisory Committee consists of at least five experts with senior professional technical title, at least four of them are master tutors, and at least one of them is from industry. Applicant's tutor and referrer should not be invited as members of Thesis Supervisory Committee. The members of the Committee should be approved by Academic Degrees Evaluation Committee.

One month before the defense the paper should be sent to Thesis Supervisory Committee.

### **(5) Degree-granting**

Students will be granted Academic Master's Degree when they obtain 36 credits and pass the dissertation defense which is approved by the Academic Degree Evaluation Committee.

Nankai University shall grant international students the degree certificate uniformly printed by the Office of the Academic Degree Committee of the State Council. The certificate is written in Chinese,

and it can be translated into English with a copy.

## **II. Application Instruction**

### **1. Requirements**

All applicants must meet the following requirements:

(1) Applicants must be non-Chinese citizens with a valid passport, abide by laws and regulations of People's Republic of China and the regulations of Nankai University, and show proper respect for Chinese customs.

(2) Applicants must be staff from administrations, higher educational institutes, scientific or academic institutions, or non-government organizations in developing counties. Applicants must obtain a Bachelor's degree in Software or relevant majors and with good English proficiency, not older than 45 years old.

(3) Applicants who are not native English speakers are required to present English Language Proficiency Certificate, language tests such as new TOEFL 80(or better) or IELTS 6 (or better) or other documents which can prove the English proficiency of the applicant shall be submitted; applicants who are English native speakers or university education is completely by English teaching shall not provide language tests.

(4) The candidates must be healthy and must not have any disease or

situation listed below:

(a) Diseases prohibited by Chinese Entry-Exit Inspection and Quarantine Laws and Regulations;

(b) Other severe chronic diseases like high blood pressure, cardiovascular and cerebrovascular diseases, diabetes;

(c) Psychological diseases;

(d) Other infectious diseases which may have a serious impact on public health;

(e) In recovery period after major surgery or acute disease attacks;

(f) With severe physical disability;

(g) Pregnant women are not allowed to attend the program. Those who get pregnant while studying in China will be dropped out from school.

(5) During study in China, applicants should not bring spouse, children, relative or friend;

(6) Only applicants recommended by the Economic and Commercial Counsellor's Office of Chinese Embassy will be considered.

(7) Applicants who are already studying in China or have been accepted into other Chinese government scholarship programs will not be admitted.

## **2. Procedures**

**(1) Application to Nankai University**

Prepare the application materials based on below list and send all to mailbox: [softwaremposs@nankai.edu.cn](mailto:softwaremposs@nankai.edu.cn)

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Number	documents	Requirements	Original copy	Photocopy
1	Graduation and Degree Certificates	<ol style="list-style-type: none"> <li>1. Bachelor's degree and graduation certificates</li> <li>2. If applicant is in university, please provide study certificate</li> </ol>	1	1
2	Recommendation Letters	<ol style="list-style-type: none"> <li>1. A superior in the institution where the applicant works</li> <li>2. An associate professor or professor who knows the applicant well.</li> <li>3. Both recommendation letters are needed</li> </ol>	2	2
3	Official Transcripts	<ol style="list-style-type: none"> <li>1. It should be the original one or notarized copy</li> <li>2. Applicant's bachelor's study transcripts are necessary.</li> </ol>	1	1
4	Personal Statement	<ol style="list-style-type: none"> <li>1. A study plan includes the information of goals set for each study stage, the tasks and research activities planned during the study duration, etc.</li> <li>2. Study and research plan</li> <li>3. Future development Aim</li> </ol>	1	1
5	CV	Background information and the education and social experiences since the high school.	1	0
6	English Language Proficiency Test Results	Applicants who are not native English speakers or whose undergraduate education was not conducted in English shall provide TOEFL or IELTS test scores or other sufficient English proficiency certificate. ( details are in brochure)	1	1
7	Photocopy of a Valid Passport	<ol style="list-style-type: none"> <li>1. The passport must be a personal regular passport, and it is valid</li> <li>2. All successful candidates must enter China and register with Nankai University using the same passport as used for applying for the program</li> <li>3. The name and passport number can be seen</li> </ol>	0	2
8	Recent Passport Size Photograph	Number: 2 Size: 2 inches Within 3 month bareheaded	2	0
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

### **(2) Online application of university**

Register and apply in Nankai University International Student



Service System ([nankai.at0086.cn/student](http://nankai.at0086.cn/student)). Select college of software-software engineering, click “To pay” finally to finish the application (pay 0 in fact) and there will be a serial application number after it succeeds. Send the application form to mailbox [softwaremposs@nankai.edu.cn](mailto:softwaremposs@nankai.edu.cn).

### **(3) Submission**

- (a) 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.
- (b) Submit a written request to the Economic and Commercial Counsellor’s Office of Chinese Embassy for an official recommendation letter and clearly state whether the applicant is willing to be considered for a similar program at other universities if the program at NUIST is already full. Other special requests can be put forward too if any.

### **(4) Acceptance of admission materials**

- 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. If admitted, they must take the documents to China for verification and submit them to NUIST during registration.

### **3. Deadline**

The application deadline is 07 June, 2024.

## **III. Other Important Information**

### **1. Contact Methods**

Contact person: Junxia Yu

E-mail: [softwaremposs@nankai.edu.cn](mailto:softwaremposs@nankai.edu.cn)

Telephone: (86)-022-85358085

Fax: (86)-022-85358085

Website: <http://cs.nankai.edu.cn/>

Mailing address: Room 402, The College of Software, Tongyan Road  
38, Haihe Education Park, Jinnan District, Tianjin, China

### **2. Other Clarifications**

(1) All the application documents will not be returned whether the application is successful or not.

(2) Chinese government will not explain the details of admission

whether applicants are admitted or not.

(3) Spouses or children are not allowed to accompany applicants to study in China.

(4) The formalities of entering China and other requirements will be informed in the admission documents.