



# **2019 Master Program In Software Engineering**

**The College of Software**  
**Nankai University**

March, 2019

## **I. Program Description**

### **1. General Information**

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

The academic 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 third 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>
2019 Master Program Software Engineering	50	English	Two-year

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

The Chinese Ministry of Commerce will provide funds from foreign aid to sponsor students from developing countries. The fund covers academic, administrative fees as well as basic living expenses of each student. The academic fees include tuition, fees of teaching materials, fees of research and internship, thesis instruction fees etc. Living expenses include accommodation fee, stipend, one-time settlement allowance, insurance fee etc. Besides, the one-time settlement

allowance of 3000RMB/person will be paid to students directly. In terms of living expenses, it is 36000RMB/year per person for the master program, and will be distributed to students gradually by the undertaking university. For two year program, we provide return ticket (International) one time. The rest expenses should be managed by the Chinese Ministry of Commerce or the undertaking university rather than granting to students.

## **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 include 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 an 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 campus: TEDA (Tianjin Economic Development Area) of Nankai University; Jinnan campus. First grade students live in Overseas Students' Apartment inside Jinnan campus, second students live in Ruida Apartment outside of TEDA campus. 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 experts apartments. We own 700 dormitory, 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 60 credits for graduation, including 19 credits for compulsory courses, 14 credits for optional courses and 27 credits for graduation dissertation.



(a)Compulsory Courses (at least 19 credits should be obtained)

Course Name	Credit
Chinese National Conditions and Culture	3
Chinese Language	2
Programming On the Open Source	2
Advanced Programming	3
Software Engineering	3
Analysis and Design of Software System	3
Training of Writing a Research Paper	3

(b)Optional Courses (at least 14 credits should be obtained)

Course Name	Credit
Advanced Technology of Database	3
Development of Internet Software	3
Testing of Software System	3
Data Mining Technology	3
Development of Intelligent Mobile Application	3
Practice of Software Engineering	3
Introduction to the Frontier of Technology	2

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Introduction to Internet of Things	2
Security Technology of Information	3
Introduction to Artificial Intelligence	2
Senior Chinese Language	2

### (c) Teaching Staff

Teachers of program from The College of Software and The College of Computer and Control Engineering, including 24 professors, 42 associate professors and 19 lecturers, most of them have PhD and oversea research or business experiences. Among all the teachers, 47 of them could lead English teaching, 39 of them are qualified supervisor for master program.

### (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 1, 2019, and finish it within two weeks since registration. Students are

supposed to graduate and depart from China before July, 2021, 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 30000 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 applicant pass all the course tests. The Thesis Supervisory Committee is consist 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 master's degree when they obtain 60 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 countries. 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 70(or better) or IELTS 5.5 (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) Pregnancy.
- (5) During study in China, applicants should not bring spouse, relative or friend for long stay;
- (6) Only applicants recommended by the Economic and Commercial Counsellor's Office of Chinese Embassy will be considered.

## **2. Procedures**

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

The applicant can download the application material list by accessing

[http://cs.nankai.edu.cn/mposs/app\\_form.doc](http://cs.nankai.edu.cn/mposs/app_form.doc)

If you cannot download the list, you could send email to:

[softwaremposs@nankai.edu.cn](mailto:softwaremposs@nankai.edu.cn) request for it.

- a) After preparing all required information, applicant shall print the form, sign your name and date, and then stick a photo (size of passport photo, white background) on it (same with other

materials) **.Scan them and send them to the email address above.**

**We only receive spreadsheets.**

- b) In Funding resource column please fill in “Ministry of Commerce Scholarship”

## **(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 hand-written name and date, and then post a photo on it. To complete the form successfully, please note the following information

- (a) The agency No. of College of Software, Nankai University is: 10055. Professional Emphasis is “Software Engineering”.
- (b) The CSC No. formed in the online application system will be used for the Visa Application of Study in China (JW 201 Form).

## **(3)Material Preparation**

Please prepare all the materials before application:

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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 Nakai 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 Chinas Entry-Exit Inspection and Quarantine Laws and Regulations.	1	1



#### **(4) 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. Hard copy must include both the original copy and the photocopy, as indicated in the table. The address and contact information can be found at website: <http://www.china-aibo.cn/>.

(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.

#### **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. If admitted, they must take the documents to

China for verification and submit them to NUIST during registration.

### **3. Deadline**

The application deadline is June 28, 2019.

## **III. Other Important Information**

### **1. Contact Methods**

Contact person: Junxia Yu (Ella 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/mposs/>

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

### **2. Other Clarification**

(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) All the expenses related to spouses and children's visiting China are not covered by the scholarship program.

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