



湖南大学  
HUNAN UNIVERSITY

**2020 Master of Industrial Engineering  
Prospectus**

**Hunan University**

December, 2020

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# **1. Program Introduction**

## **1) Program Description**

### **Brief Introduction**

Mofcom Degree Education Programs sponsored by the Ministry of Commerce of People's Republic of China started from 2008. It is designed to foster high-end and inter-disciplinary talent working in the applied fields of government, economy and trade, foreign affairs, agriculture, science and technology, education, culture and health, energy resources and transportation, public administration etc building intellectual capacity and facilitating the economic and social development of the recipient countries., offering one-year and two-year master programs as well as three-year doctoral programs. 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 needed for the degrees.

The program plays an increasingly significant role in the economic development cooperation between China and students' home countries, and is highly valued by the government of students' home countries.

Hunan University has started the two-year master program sponsored by Ministry of Commerce since 2015. It specializes in Industrial Engineering and taught in English.

### **Prospective Students**

Our prospective students are mid-to-senior level officials or managers from the government, the media, NGOs, and other public sectors, who have demonstrated superior performance, both academically and in their work.

### **Program Objective**

To prepare high-level, compound and applied talents in the field of politics, economy and trade, diplomacy, agriculture, science & education & culture & public health, energy resources and transportation, public administration for developing

countries.

**Enrollment Plan:**

In 2020 we have planned to enroll up to 20 students in our master program with a concentration on industrial engineering. The program duration is 2 years and the instruction language is English.

**Financial Aid**

- a. Students are exempt from tuition fee, teaching materials fees, research fees, English teaching grants, graduation thesis guidance fee;
- b. University will provide free accommodation;
- c. The living expense being 3000 RMB/month will be deposited to students account by the university;
- d. The settlement allowance being 3000 RMB/person will be given to students account by the university;
- e. University will buy comprehensive medical insurance for students;
- f. Two round-trip international air tickets will be provided. One is for you come to register in the university and for you back home after graduation; The other one is for you to go back home to visit your families during the summer or winter vocation;
- g. Students are required to take part in the Annual Evaluation. Those who meet the criteria can continue to enjoy full scholarship in the following year.
- h. The Ministry of Commerce subsidizes the university related expenses for its teaching and managing. Only the settlement allowance and the living expenses should be granted to the students, and other fees will be managed by Ministry of Commerce or by the university, not to be granted to the students.

The Ministry of Commerce only provides students with financial support during the school system (two-years for master students). The students who postponed their graduation will not receive the continuing support.

## **2) Introduction to Hunan University**

### **Brief Introduction**

Hunan University is situated at the foot of the picturesque Yuelu Mountain and on the west bank of the rippling Xiangjiang River in the historically and culturally renowned City of Changsha, capital of Hunan Province. Hunan University, an extension of one of the four famous Academies of the Song Dynasty, dates back to the period of the founding of Yuelu Academy in 976 AD. It enjoys the title of an "Ancient Millenarian Academy, Famous Centennial University". As one of the key and most comprehensive universities affiliated with the Ministry of Education, it has been included in the state's "Project 211" and "Project 985" for priority investment and construction. It is also classified in the country's construction plan of world-class universities and first-class disciplines.

It has a staff of nearly 4,000, of which 2,231 are full-time teachers. It has 12 members of the Chinese Academy of Sciences and Chinese Academy of Engineering; 6 members of the Academic Degree Commission under the State Council; 42 candidates of the state's special talents programs; 22 obtained supports from the National Science Fund for Distinguished Young Scholars; 21 gained supports from the National Science Fund for Outstanding Young Scholars; 6 winners of national famous teacher awards; 14 young and middle-aged leading talents in the Innovative Talent Promotion Program of the Ministry of Science and Technology; and, 134 candidates of the New Century Excellent Talents Supporting Program of the Ministry of Education. There are 4 innovative research groups supported by the Natural Science Foundation of China (NSFC), and 8 innovative teams of the Ministry of Education.

Hunan University, since 1998, has started to enroll international students for 22 years. In 2020, Hunan University has more than 1000 international students from 108 countries.

### **College of Mechanical and Vehicle Engineering**

College of Mechanical and Vehicle Engineering originates from Mechanical Department in 1908, which is one of the time-renowned colleges in Hunan University. There are 2 first-order disciplines authorized to confer Ph.D degrees and with Post doctoral research centers which are Mechanical Engineering and Mechanics, and 8

second-order disciplines authorized to confer Ph.D degrees; 10 disciplines authorized to confer Master's degree and 4 professional master's degree authorizations. Mechanical Engineering is a first-order national key program. There are multiple national, provincial scientific development institutions including National Engineering Research Center for High Efficiency Grinding and State Key Laboratory of Advanced Design and Manufacturing for Vehicle Body.

### **Campus Life**

Hunan University is located in Changsha, capital city of Hunan province. Changsha is located in the northeast of Hunan province. It is a subtropical monsoon humid climate, characterized by mild climate, abundant precipitation, rain and heat in the same period and four seasons. Summer and winter are long, spring and autumn are short. Temperature of Spring is 8°C -15 °C, summer 23 °C -30°C , autumn 20 °C -29 °C, winter 5 °C -12 °C, and annual average temperature is 17.2 degrees Celsius .

Hunan University is located at the foot of Yuelu Mountain with natural beauty, including two campuses, south campus and north campus. Students apartments are located in South campus, North campus, Tianma residential area and Dezhiyuan residential area. International students live in the International Students Apartment of Dezhiyuan in Dezhiyuan residential area. Students for Master of Industrial Engineering program will be offered a single room equipped with washing room, air-condition, refrigerator, television, network. Public kitchen and laundry are arranged on each floor. Student canteen including Halal canteen, and banks are distributed in Dezhiyuan residential area.

## **3) Teaching**

### **Curriculum**

#### **Compulsory Courses**

No.	Core Curriculum	Credits
1	Advanced Manufacturing Technology	3
2	Operational Research	3
3	Quality and Reliability Engineering	3
4	Production Scheduling Technology	3

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5	Project Management	3
6	Management Information Systems	3
7	Introduction to Probability Models	3
8	Advanced Engineering Machinery	3
9	China Culture Communication	2
Total		26

**Elective Courses**

No.	Elective Curriculum	Credits
1	Logistics and Supply Chain Management	3
2	Engineering Materials	3
3	The Chinese Conditions	3
合计		9

**Requirement of Credits**

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

All the courses incorporate seminars, lectures, discussions and field works, which are all instructed in English.

Total Credits	Courses		Thesis Proposal	Academic Activities	Thesis
	Compulsory Courses	Elective Courses			
70	26	6	2	2	34

**Lecturing Professors**

No.	Curriculum	Professor	Academic Background
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No.	Curriculum	Professor	Academic Background
1	Operations Research	Jiang Chao	Prof. Jiang received Ph.D. from the College of Mechanical and Vehicle Engineering, Hunan University. Prof. Jiang is also the laureate of National Excellent Doctoral Dissertation of China, and visiting scholar of the Department of Mechanical Engineering of NUS (National University of Singapore). Jiang is designated as the deputy director of MOE (Ministry of Education) Key Lab of Special Equipment Advanced Design Technology and Stimulation, professor, and doctoral advisor of the College of Mechanical and Vehicle Engineering.
2	Fundamental Industrial Engineering	Wen Guilin	Prof. Wen received his/her Engineering Ph.D. from NTU (Nanyang Technological University) Singapore. Prof. Wen once undertook the researching work or served as visiting scholar successively in the School of Mechanical and Aerospace of NTU, Department of Electrical and Computer Engineering of NUS, Department of Mechanical Engineering of University of New Brunswick, Canada. Wen is designated as the vice-president, professor, and doctoral advisor of the College of Mechanical and Vehicle Engineering, Hunan University. Prof. Wen is also the laureate of National Science Fund for Distinguished Young Scholars.
3	Systems Engineering	Deng Qianwang	Prof. Deng received Ph.D. from Otto-Von-Guericke University Magdeburg, Germany. Prof. Deng was a visiting scholar of the Mechanical Design Institute of Otto-Von-Guericke University Magdeburg. Presently, Deng is the responsible professor and doctoral advisor of in the field of Industrial Engineering of Hunan University.
4	Advanced Manufacturing Technology	Song Lijun	Prof. Song received Ph.D. from the School of Precision Instrument & Opto-Electronics Engineering of Tianjin University, and served as postdoctoral researcher in the Department of Electrical Engineering and Computer Science of Northwestern University, and the Department of Mechanical Engineering of University of Michigan, USA. Song is the research scientist of the Department of



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No.	Curriculum	Professor	Academic Background
			Mechanical Engineering of University of Michigan, doctoral advisor of the College of Mechanical and Vehicle Engineering, Hunan University, and the laureate of the “Thousand Young Talent Program”.
5	Quality Engineering and Reliability	Li Rong	Prof. Li received Ph.D. from the College of Mechanical and Vehicle Engineering, Hunan University. He was a visiting scholar in University of California, San Diego, and now serves as the vice-professor, master instructor of the College of Mechanical and Vehicle Engineering at Hunan University.
6	Modern Design Method	Han Xu	Prof. Han received his/her Mechanical Engineering Ph.D. from NUS, and served as postdoctoral researcher in NTU, Singapore. Han is designated as the president of the College of Mechanical and Vehicle Engineering at Hunan University, Changjiang Scholar, and doctoral advisor.
7	Fundamentals of Mechanical Manufacturing Technology	Jin Tan	Prof. Jin received Ph.D. from China Northeastern University, and served as postdoctoral researcher in Liverpool John Moores University, visiting scholar in Kaiserslautern University, Germany. Jin is the Chief Engineer of National Engineering Research Center for High Efficiency Grinding, professor and doctoral advisor of the College of Mechanical and Vehicle Engineering at Hunan University.
8	System Modelling and Stimulating	Liu Jian	Prof. Liu received Ph.D. from Hunan University. Liu is also served as a visiting scholar of Toronto University, Canada, and executive director of the academy of Machinery Diagnostic and Failure Analysis. Presently, Liu is the assistant president, professor and Ph.D. of the College of Mechanical and Vehicle Engineering at Hunan University.

**Teaching Methods**

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

All the courses incorporate seminars, lectures, discussions and field works, which are all instructed in English.

### **Lessons**

48 periods for each course;

45 minutes for each period.

### **Discussion**

Under the guidance of teachers, the whole class or a small group give their opinions and views around one topic and inspired by each other. One question should be raised each month.

### **Field Study**

During Study, our college will arrange academic activities including academic reports by Local Government officials, industrial managerial personals, industry associations chairman and scholars from universities. Students will also be invited to join internship and investigations in established enterprises of mechanical engineering, track traffic, vehicle manufacturing and special equipments.

### **Thesis**

After getting full credits required by the university, a student should choose a professor as his/her supervisor, and determine the subject matter for thesis proposal on the basis of a real world problem to be solved in his/her own countries. If the thesis proposal is approved by the supervisor and the college, students are expected to complete their thesis with no less than 20000 words and apply for an oral defense.

### **Timetable for One Academic Year**

Autumn Semester: September

Register: 6th -10th September, 2021

Winter Vocation: February (almost 1 month)

Spring Semester: March

Summer Vocation: July and August (almost 2 month)

Graduation: June or July

### **Awarding Degree**

A master degree of Industrial Engineering will be conferred upon a candidate in the master program after his/her successful completion of required credits and thesis.

## **2. How to Apply**

### **1) Qualifications of Application**

Applicants should:

- a) Be in compliance with the laws and regulations of the People's Republic of China (PRC) and the university regulations, and respect Chinese customs and habits;
- b) Be non-Chinese nationality from developing countries under the age of 45 (born after 1 Sep, 1974) and be healthy;
- c) Be physically and mentally healthy with the Health Certificate or Physical Examination Result issued by local public hospitals. Without diseases classified as “prohibited entry into China” under Chinese laws and regulations and without diseases classified as “prohibition of long-term residency in China”; Without serious Chronic diseases such as hypertension, cardio-cerebral vascular disease, diabetes, cancers etc; Without Psychiatric diseases; Without Infectious diseases which may bring great harm to the public health; Not in the recovery period after a major operation; Not in the acute episode of the acute disease; Not severely disabled. Pregnant women are not allowed to attend this program in China. If you are pregnant during your studies in China, you will be dropped out of school.
- d) Hold a Bachelor's degree or above and with 3 years or more working experience ;
- e) The applicants with profession studying or working background related to the major applied and be on the job are preferred.
- f) To serve as Public officer (section chief or corresponding levels and above) of the government departments of the host country, Or Senior managers of various institutions and enterprises, Or Academic backbone of the universities and scientific research institutions.
- g) Have a good command of English, proficiency in English for academic coursed (For example IELTS 6.0 or TOEFL 80);
- h) With the potential of career development in this field and with the intention to

- promote friendly exchanges and cooperation between China and the host country;
- i) The applicants who are studying in China or have been admitted to other programs of Chinese government scholarship are not allowed to apply;
  - j) Preferred (not limited to) academic background are mechanical engineering, industrial engineering, information engineering, electrical engineering, mathematics, physics, management science, economics and accounting;
  - k) Only applicants recommended by the Economic and Commercial Counselor's Office of Chinese Embassy in the country that accords with the candidate's nationality will be considered.

## 2) Application Procedure

### Application to Hunan University

- a) Please contact [imiehnu@126.com](mailto:imiehnu@126.com) to get the *Application Form of Hunan University* and *Physical Examination Form* for IMIE program.
- b) Fill in the *Application Form of Hunan University*, print out it, and sign your name with the date.
- c) Post your photo on the form;

### Application to Mofcom Scholarship for Industrial Engineering

- a) Please visit the online application system of Chinese Scholarship Council at [campuschina.org](http://campuschina.org), and register for online application. Select the program "Chinese Government Scholarship", choose **category B**, 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.

- b) To complete the form successfully, please note the following information: The agency No. of Hunan University is 10532; For the master program, The discipline is "Engineering"; The major is "Industrial Engineering"; Teaching Language is "English"; Duration of Study is 01/09/2021-31/08/2023.
- c) For this program, the university will offer Professional master degree after the students achieve all the requirements. Different from Academic master degree, Professional master degree is to cultivate applied high-level talents with solid

theoretical foundation and adapt to the practical needs of the industry, which is also a form of master education in China.

### Documents Required

If the application materials are incomplete, the application will not be accepted.

Please read the following carefully and prepare the application materials as required.

Documents Needed		Requirements	Originals	Copies
1	Recommendation Letter	It should be issued by the department where the applicant is working in. It should cover the basic information of the applicants and the intension to recommend the applicant.	1	1
2	Recommendation Letter	It should be issued by vice professors or professors. It should cover the academic background, research field, past achievements and research ability of the applicant.	1	1
3	Graduation Certificate and Degree Certificates	Graduation and Degree Certificates must be originals or the notarized copies, in Chinese or English; If the applicant has not graduated yet, he or she should provide a letter issued by the school to state the graduation date.	1	1
4	Transcripts	Official transcripts must be originals or notarized copies in Chinese or English; Transcripts must cover all the courses studied and final standards achieved.	1	1
5	Resume	Written in English. It should cover the personal background information and the applicant's experience of study and work after the high school.	1	1
6	Personal Statements	Written in English. It should cover the applicant's ideas and objectives for studying the major applied.	1	1
7	Research Plan or Study Plan	Written in English; It should cover the applicant's learning and research tasks that he/she wishes to accomplish during their study in China.	1	1
8	Passport Copy	The passport must be valid; Do not use the Diplomatic passport or Service passport; The passport used to apply must be the same with passport used for entry into China and registration in	0	2

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Documents Needed		Requirements	Originals	Copies
		Hunan University.		
9	Photos	2 photos (the last 3 months) in passport photo size; White background and bareheaded;	2	0
10	English Proficiency Certificate	Non-native English speakers or those who did not participate English-taught Bachelor Program should submit English proficiency certificate like TOEFL, IELTS etc.	1	1
11	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.	0	1
12	Application Form	Complete "International Master of Industrial Engineering Application Form", print it and sign it with dates.	1	1
13	CSC Application Form	Complete online application at <a href="http://campuschina.org">campuschina.org</a> , finish the application in the Chinese Government Scholarship Website, for more details please see <b>Application to Chinese Government Scholarship</b>	1	1

**Note:** All application materials must be in English or Chinese. If originals can not be provided, please make sure you will provide notarized copies in English or Chinese. Accepted or not, all the application materials will not be returned.

**Submission**

- a) The applicant can apply for this scholarship program only after you have been approved and recommended by the relevant departments of the government in the host country;
- b) Under the condition that the government of the host country allows the applicant to directly submit the application materials to the Chinese Embassy, and With the proof or recommendation letter concerning permission for the applicant to study in China, the applicant should submit all the application

materials listed in the above table in both original ones and scanned copy to the **Economic and Commercial Counselor's Office of Chinese Embassy**.

- c) The relevant departments of the government in the host country should submit a written request to **the Economic and Commercial Counselor's Office of Chinese Embassy** for **an official recommendation letter** and clearly state: Whether the applicant is willing to be transferred to the other same or similar programs in the other universities if declined by the university he/she applies. Other special requests 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. After verification, students themselves should send the documents to the university.
- c) Applicants will get back all the hard-copy materials, both original copies and photocopies from the Economic and Commercial Counselor's Office. If admitted, they must take the documents to China and submit them to the Hunan University during registration in early September.

**3) Deadline of Application: 30<sup>th</sup> April, 2020**

## **3. Notes**

### **Contact of Hunan University**

Name: Zeng Ting(Ms.) from Center of International Studies

Tel & Fax: +86-731-88823130

Email: imiehnu@126.com

Website: <http://www.hnu.edu.cn/>

Address: Office B160, B1 Floor International Students Apartment of Hunan University, Dezhiyuan, Zuojialong, Yuelu District, Changsha, Hunan Province, P.R.China

## **Other notes**

- a) None of the materials submitted to Hunan University will be returned.
- b) Accepted or not, Chinese government reserves the rights of elaboration.
- c) No spouse or children are allowed to accompany students in China. Any expenses regarding spouse and children' visit to the applicants will not be covered by the scholarship.
- d) The procedure of admission and visa application will be elaborated in the admission documents.