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湖南大學  
HUNAN UNIVERSITY

# 2023 Master of Industrial Engineering Prospectus

**Hunan University**

February, 2023

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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 2023 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 3000RMB/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 4,300, of whom 2,307 are full-time teachers. It has 21 members of the Chinese Academy of Sciences and the Chinese Academy of Engineering(working in full-time or part-time); 13 members of the Academic Degree Commission under the State Council; 75 candidates of the state's special talents programs; 27 winners of the National Science Fund for Distinguished Young Scholars; 37 winners of the National Science Fund for Excellent Young Scholars; 4 winners of national outstanding teacher awards; 16 young and middle-aged leading talents in the Innovative Talent Promotion Program of the Ministry of Science and Technology. HNU has 6 innovative research groups supported by the Natural Science Foundation of China (NSFC), and 9 innovative teams recognized by the Ministry of Education, and the State Administration of Science, Technology and Industry for National Defense. HNU has been shortlisted for the China highly cited researchers list 45 times in 2021, and the global highly cited researchers list for 32 times in 2022.

Hunan University, since 1998, has started to enroll international students for 23years. In 2022, Hunan University has more than 800 international students from over 90 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, 8 second-order disciplines authorized to confer Ph.D degrees, and 2 post-doctoral research programs; 11 disciplines authorized to confer Master's degree and 2 professional master's degree authorizations. Mechanical Engineering is a first-order national key program and is listed as "world-class discipline" of the Ministry of Education. There are 2 national scientific research bases including National Engineering Research Center for High Efficiency Grinding and State Key Laboratory of Advanced Design and Manufacturing for Vehicle Body. And 11 provincial and ministerial scientific research bases.

### **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 is distributed in Dezhiyuan residential area.

## **3) Teaching**

### **Curriculum**

#### **Compulsory Courses**

No.	Core Curriculum	Credits
1	Advanced Manufacturing Technology	3

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2	Operational Research	3
3	Quality and Reliability Engineering	3
4	Production Scheduling Technology	3
5	Project Management	3
6	Management Information Systems	3
7	Modern Design Technology	3
8	Advanced Engineering Machinery	3
9	A Brief Introduction of China	2
Total		26

**Elective Courses**

No.	Elective Curriculum	Credits
1	Logistics and Supply Chain Management	3
2	Engineering Materials	3
3	A Brief Survey of Chinese Culture	3
4	Chinese Language Courses	3
合计		12

**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
1	Operations Research	Jiang Chao	<p>Prof. Jiang, a doctoral advisor in Hunan University, is the Dean of the College of Mechanical and Vehicle Engineering, Hunan University. He is a winner of the National Science Foundation for Distinguished Young Scholars, of China Youth Science and Technology Award, of Tencent Scientific Exploration Award, the laureate of National Excellent Doctoral Dissertation of China, and visiting scholar of the Department of Mechanical Engineering of NUS (National University of Singapore). He is a Member of the Executive Committee of the Asian Society for Structural and Multidisciplinary Optimization (ASSMO) and editorial board of several international journals.</p>
2	Advanced Manufacturing Technology	Song Lijun	<p>Prof. Song, a doctoral advisor in Hunan University, was 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. He is the research scientist of the Department of Mechanical Engineering of University of Michigan. He is a candidate of Oversea High-level Young Talents Program, and a winner of Contribution Award of Oversea Chinese”.</p>
3	System Modelling and Stimulating	Liu Jian	<p>Prof. Liu, a doctoral advisor in Hunan University, is the Vice Dean of College of Mechanical and Vehicle Engineering, Hunan University. He was served as a visiting scholar of Toronto University, Canada. He is the executive director of the Academy of Machinery Diagnostic and Failure Analysis.</p>



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No.	Curriculum	Professor	Academic Background
4	Fundamentals of Mechanical Manufacturing Technology	Jin Tan	Prof. Jin, a doctoral advisor in Hunan University, received Ph.D. from China Northeastern University, and served as postdoctoral researcher in Liverpool John Moores University, visiting scholar in Kaiserslautern University, Germany. He is the Chief Engineer of National Engineering Research Center for High Efficiency Grinding.
5	Project Management	He Liping	Prof. He, a doctoral advisor in Hunan University, received her Ph.d degree from Delft University of Technology, the Netherlands. She was a URF of City University of Hong Kong and a visiting professor of University of Alberta, Canada. She has won many awards in lecture competitions.
6	Production Scheduling Technology	Li Mao Jun	Associate Prof. Li, a doctoral advisor of Hunan university, has obtained his Ph.d degree from University of Birmingham, UK. Many graduate students won "National Scholarship for Graduate Students" and "Excellent Graduate Students of Hunan University" under his guidance.
7	Management Information Systems	Zhou shizhe	Associate Prof. Zhou, a doctoral advisor in Hunan University, was served as postdoctoral researcher in both National Institute of Information, France and University of Science and Technology of China. He has won the title of Young Talents of Hunan Province.
8	Frontiers of Engineering Technology & Management	Zhang Guanhua	Associate Prof. Zhang, a doctoral advisor in Hunan University, received her Ph.d degree from both Arizona State University, US and Hunan university, China. She has won the title of Yuelu Scholar, and Young Talents of Hunan Province.

No.	Curriculum	Professor	Academic Background
9	Quality and Reliability Engineering	Li Fan	Associate Prof. Li, a doctoral advisor in Hunan University, was served as postdoctoral researcher in the ENSAM under the Paris Institute of Technology. He is also the secretary of Car Body Branch of China Society of Automotive Engineering.
10	Engineering Materials	Mo Fuhao	Associate Prof. Mo, a doctoral advisor in Hunan University, received his Ph.d degree from Aix-Marseille University- IFSTTAR Institute. He has won the title of Yuelu Scholar, and Young Talents of Hunan Province.
11	Modern Design Technology	He Zhelong	Assistant Prof He, a master's Supervisor of Hunan University, has obtained his bachelor and master degree from Tsinghua University, China, Ph.d degree from University of Virginia, US, and was served as postdoctoral research in University of Texas at Austin. He is also a reviewer of several international SCI journals.
12	A Brief Survey of Chinese Culture, A Brief Introduction of China	Xie Jun	Prof. Xie, a master's advisor, has obtained her Ph.d majoring in English Language and Literature in the Hunan Normal University. During her master's period, she studied in the University of Sheffield for one year. She is the Director of Center of International Studies, Hunan University.
13	Academic Lecture	Liu Jie	Prof. Liu, a doctoral advisor in Hunan University, is the Vice Dean of College of Mechanical and Vehicle Engineering, Hunan University. He is a visiting scholar in the Northwestern University, USA. He is a candidate of National High-level Young Talents Program and served as deputy editor of international SCI journals. He is a winner of Royal Society-Newton Mobility Grant.

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No.	Curriculum	Professor	Academic Background
14	Academic Lecture	Feng Kai	Prof. Feng, a doctoral advisor in Hunan University, is the Director of National High-Efficiency Grinding Engineering Technology Research Center, Hunan University. He is a national leading talent in the Scientific and Technological Innovation Program, and a candidate of Oversea High-level Young Talents Program.
15	Academic Lecture	Liu Kan	Prof. Liu, a doctoral advisor in Hunan University, is the Director of Automotive Electronics and Control Technology Engineering Research Center of the Ministry of Education, China. He has obtained Ph.d degree in the University of Sheffield, UK, and a Lecturer of Control System Group of Loughborough University, UK. He is also candidate of Oversea High-level Young Talents Program.
16	Academic Lecture	Duan Huigao	Prof. Duan, a doctoral advisor in Hunan University, is the Dean of Guangdong-Hong Kong-Macao Greater Bay Innovation Research Institute, and the laureate of National Excellent Doctoral Dissertation of China. He has successively engaged in scientific research at Massachusetts Institute of Technology, Singapore Science and Technology Research Bureau, Stuttgart University and Mapu Solid State Institute. He is also a winner of China's Top Ten Prominent Tech Figures, and a candidate of National High-level Young Talents Program.

No.	Curriculum	Professor	Academic Background
17	Academic Lecture	Sun Guangyong	Prof. Sun, a doctoral advisor in Hunan University, is a postdoctoral researcher in the University of Sydney. He is a winner of the Outstanding Young Researcher Award of the Australian Research Council and winner of the Postdoctoral Award issued by the President of the University of Sydney. He is the highly cited scientist of Korovian Global and the highly cited scholar of Elsevier China. He is also candidate of Oversea High-level Young Talents Program.
18	Academic Lecture	Han Xiaoxiao	Prof. Han, a doctoral advisor in Hunan University, was a master and Ph.d majoring in Advanced Mechanical Engineering in the University of Leicester, the UK and served as a postdoctoral researcher in the University of Warwick, and Loughborough University, the UK. She is a candidate of Oversea High-level Young Talents Program, served as editorial board member of several academic journals, presided over the European Union "Horizon 2020" Marie Curie Plan project.

### **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 equipment.

### **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: 4th -8th September, 2023

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, 1978) 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

Please contact [imiehnu@126.com](mailto:imiehnu@126.com) to get *Physical Examination Form* for IMIE program.

### Application to Mofcom Scholarship for Industrial Engineering

- a) Please visit the online application system of Chinese Scholarship Council at <https://studyinchina.csc.edu.cn/#/login>, and register for online application. Select the program “Chinese Government Scholarship”, choose **category B**, fill in all the information required, 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 Number of Hunan University is 10532**; For the master program, the discipline is “Engineering”, the major is “Industrial Engineering”, the teaching Language is “English”, and the duration of Study is 01/09/2023-31/08/2025.

- 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 intention 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,	1	1

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Documents Needed		Requirements	Originals	Copies
		past achievements and research ability of the applicant.		
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 Hunan University.	0	2
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	0	1



Documents Needed		Requirements	Originals	Copies
		health situations prohibited by China's Entry-Exit Inspection and Quarantine Laws and Regulations.		
12	CSC Application Form	Complete online application at CSC website <a href="https://studyinchina.csc.edu.cn/#/login">https://studyinchina.csc.edu.cn/#/login</a> , print it and sign it with dates.	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: 6<sup>th</sup> June, 2023**

## **3. Notes**

### **Contact of Hunan University**

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

Tel & Fax: +86-731-88684912

Email: imiehnu@126.com

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

Address: Office B163, 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's 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.