

## Curriculum Design

Public Courses of Chinese Language and China Understanding Opened by University		
Frontiers of Materials Science and Engineering	YIN Lan	Fall
Materials Characterization	SHAO Yang	Spring
Advanced Materials Physics	SUN Jingbo	Fall
Multi-Scale Modeling in Materials Science	LIU Jianbo	Spring
Mechanical Properties of Metallic Materials	Andy Godfrey	Spring
Advanced Materials Processing Technology	XU Qingyan	Spring
Materials for Sustainable Development: Energy and Environment	WU Hui	Spring
Blomedical Materials	WANG Xiumei	Spring
Advanced Materials in Sensing Technology	WANG Weipeng	Spring
Radiation Effects in Materials	LI Zhengcao	Spring
Semiconductor Materials Processing and Advanced Chip Manufacturing	WANG Chen	Spring
Advanced Materials Physics	SUN Jingbo	Fall
Processing and Characterization of Ceramics	WANG Ke	Fall
Multi-Component Phase Equilibrium Diagram	KANG Jinwu	Fall
Fundamentals and Properties of Transition Metal Oxides	YI Di	Fall
Introduction to Piezoelectricity: Theory, Materials and Devices	LI Qian	Fall
Literature Review and Topic Selection Report		
Field Study		
Academic Activities		

Public Courses Core Courses Elective Courses Tasks

## Study Plan

The IMP-MSE program lasts 2 years (could be extended to 3 years due to special circumstances).

Year/Semester	Year/Semester
First Year /1st -2nd Semester	Course Study & Thesis Proposal
Summer break	Field Trip
Second Year / 3rd -4th Semester	Thesis Writing, Thesis Defense

## Admission to IMP-MSE Program

International applicants could apply for this program in the online application system of Tsinghua (<http://gradadmission.tsinghua.edu.cn/f/login>)

during the designed THU application period.

Applicants should fill in the application information online, upload the application documents listed below to the Online Application System, and pay the application fee (800RMB) online at the time of submission.



### Admission requirements:

- Bachelor's degree or equivalent;
- English proficiency test certificate (Non-native speaker: TOEFL 85 or IELTS 6.5);
- Two recommendation letters from scholars who have the title of associate professor or above or are senior professionals in the related field;
- Transcript of academic record, research, and awards.

### Admission schedule:

- 1st Round: Oct 15th, 2023 to December 15th, 2023.
- 2nd Round: January 1st, 2024 to March 1st, 2024.
- Rolling: March 1st, 2024 to April 30th, 2024 (based on vacancies).

## Tuition/Administrative Fee for International Students

TUITION FEE	33000 RMB/Year
ADMINISTRATIVE FEE	800 RMB

Full tuition waivers and monthly stipend (6000 RMB) are provided for outstanding applicants on a competitive basis.

## Contact Information

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清华大学材料学院  
School of Materials Science and Engineering, Tsinghua University



Please kindly note that the programme information is subject to change. Please feel free to contact us via email or phone for any inquiries.

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For more admission details please refer to our admission official webpage:  
[https://www.mse.tsinghua.edu.cn/mseen/International\\_Students/Admissions.htm](https://www.mse.tsinghua.edu.cn/mseen/International_Students/Admissions.htm)



# International Master Program of Materials Science and Engineering (IMP-MSE)



刚 RIGID  
毅 TOUGH  
坚 HARD  
卓 EXCELLENT

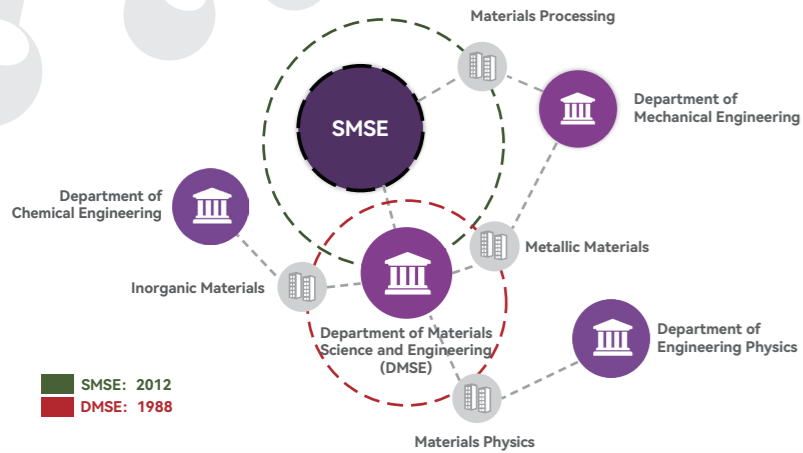
2023 US News Ranking

No.1 in China!  
No.3 in the world!

# School of Materials Science and Engineering (SMSE)

The School of Materials Science and Engineering (SMSE) at Tsinghua University was officially established in December 2012. It consists of the former Department of Materials Science and Engineering (DMSE) and the Discipline of Materials Processing in the Department of Mechanical Engineering with a high-level faculty team with a total of 98 staffs. SMSE aims to advance the frontiers of materials science and closely integrate with major national needs.

## THE ESTABLISHMENT OF SMSE

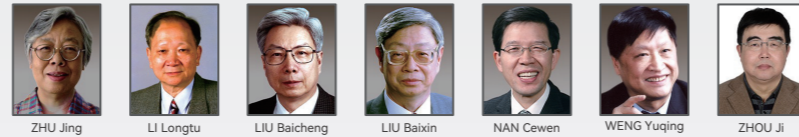


SMSE: 2012  
DMSE: 1988

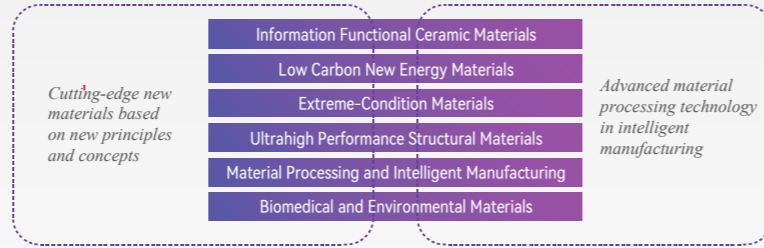
## SMSE Faculty Members, Center and Groups

Faculty Members	98		
Academic Staff	80	One Fund Committee Fundamental Science Center	One Fund Committee Innovative Group
Professors	41		
Associate Professors	35		
Assistant Professors	4	One Ministry of Science and Technology Innovative Group	Two Ministry of Education Innovative Group
Senior Engineers	12		
Engineers	6		
Postdoc Members	100+		

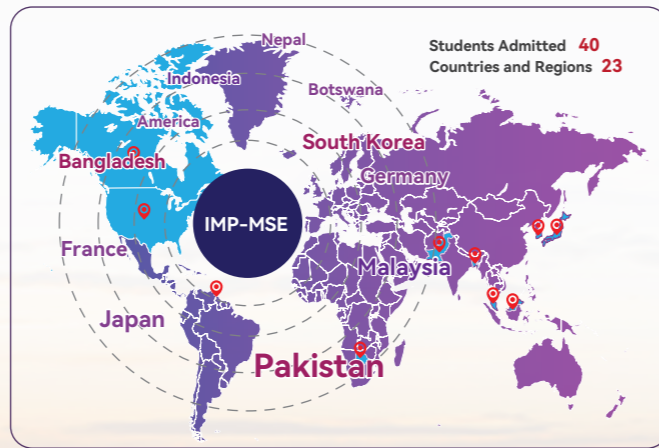
## CAS & CAE Academicians



## 6 Main Research Fields



## Program Overview



## Program Mission

IMP-MSE is designed to prepare students to become international talents with solid theoretical knowledge, excellent research abilities, extraordinary innovation abilities and vast international vision.

## Program Operation Outcomes

The fully English-taught program IMP-MSE has been running for four years with remarkable achievements. 40 outstanding international students from more than 20 countries, continuously expanding its influence and cultivating a group of excellent students.

Till 2022, the IMP-MSE program has graduated 9 students even the program was operated under the negative effect of covid-19 in the past three years. Among the 9 students, 2 students chose to pursue doctoral studies (with one admitted to the

University of Cambridge), six students secured positions in companies (including one joining Huawei's Dubai branch), and one student embarked on a research institute career (at the Vietnam Institute of Science and Technology).



Students Graduated 9



CCTV interview to Harood



Hamza attending a conference with Tsinghua's principle



## Program Highlights

### International Curriculum Design

English courses representing the cutting-edge of Materials Science and Engineering, covering six main research fields, and offering solid fundamental knowledge and vast learning space to students.

### International Faculty Team

Domestic and international top-level experts sharing advanced Materials Science and engineering experiences from both developed and developing countries, and encouraging learning flexibility and innovation.

### International Research Platform

SMSE hosted a number of national and ministry-level key laboratories and centers, aiming to offer students chances to combine theories & practices, to pursuit creative, interdisciplinary and high-impact research covering a wide range of topics.

### Featured Field Trip Arrangement

To share Chinese experiences and enhance international communications, SMSE designed field trips to well-known Chinese enterprises in different regions for students to understand materials sciences and engineering development & applications in China, at the same time, to get prepared for the future careers.

### Merit-based Scholarship Support

Full tuition waivers and monthly stipend are provided for outstanding applicants, on a competitive basis.

