

SMSE



The 11th "Zhi-Hong" International Summer School of Advanced Materials (ISS-AM)

-Materials and AI

PROGRAM OVERVIEW

About ISS-AM

The "Zhi-Hong" International Summer School of Advanced Materials (ISS-AM) is hosted by the School of Materials Science and Engineering (SMSE) at Shanghai Jiao Tong University (SJTU), with the aim of facilitating the interactive cultural and academic exchanges between top-notch scholars and students globally. The ISS-AM is named "Zhi-Hong" not only to honor the school's founder, Professor Zhihong Zhou, but also to motivate the summer school participants as "Zhi-Hong" in Chinese implies "having great ambitions".

The "Zhi-Hong" ISS-AM is a two-week program with a specific theme each year. The theme for 2026 is "Materials and AI".

In the last ten years, the 1st to 10th editions of the "Zhi-Hong" ISS-AM have been successfully organized. A total of 199 foreign students from more than ten countries and 267 outstanding Chinese students have



been selected to participate in these ten events. Numerous renowned experts and scholars from SJTU and international institutions such as Harvard University, Northwestern University, The Ohio State University, University of Cambridge, KTH Royal Institute of Technology, Osaka University, and Monash University have been invited to deliver academic lectures. Join the "Zhi-Hong" International Summer School at SJTU for a once-in-a-lifetime opportunity! You will broaden your horizons and make new friends with peers from across the world while studying at one of the top universities in China.

Introduction to SJTU

- Since its founding in 1896, Shanghai Jiao Tong University (SJTU) has become a comprehensive, research-oriented, and internationalized top university in China.
- SJTU was ranked No. 51 in 2024 QS world university rankings.
- SJTU was ranked No. 43 in 2024 Times Higher Education World University rankings.
- The number of majors at SJTU listed in top 50% was 22 in 2024 ARWU.

Introduction to SMSE

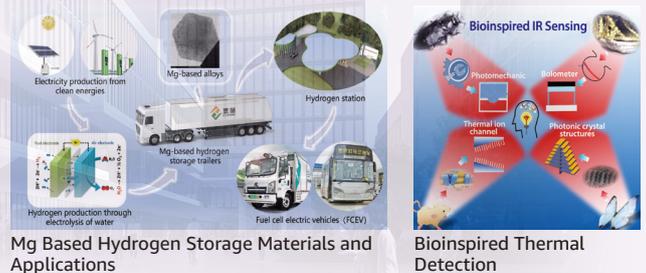
Materials Science and Engineering (MSE) program in SJTU

ranked **No. 16** in 2025 QS world university.

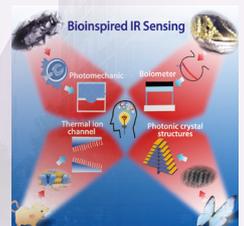
ranked **No. 12** in 2024 USNews world university.

authorized as the **first-class** National Key Discipline since 2007.

listed in world **top 1‰** discipline of ESI in 2024.



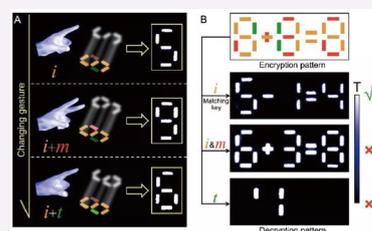
Mg Based Hydrogen Storage Materials and Applications



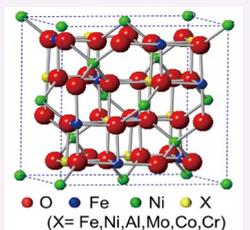
Bioinspired Thermal Detection



Biodegradable JDBM Magnesium Alloy Orthopaedic Implants



The Gesture as A Matching Key for Information Decryption



Crystal Structure Model of Multicomponent Porous Spinel Nanowires

ACTIVITIES

1) Academic lectures

Academic lectures about future materials will be given by distinguished professors from oversea universities and SJTU.

2) Poster shows

All participants are required to prepare their academic posters in advance. During the summer school, the most popular poster and the best poster will be selected through voting.

3) Colorful trips

A campus tour, a tour of Shanghai city, and visits to the research labs affiliated with SMSE at SJTU will be arranged.

4) Student seminars

All participants will be grouped into several study groups. Students in each group will collaborate on a single topic. The groups will compete in a final competition through group presentations. The faculty committee will select the best group and award the group members the "Award of Excellent Team".

5) Cultural activities

Some Chinese traditional cultural experiences will be provided, including Chinese cultural activities and festivals.

6) Special programs

Dragon boat and Chinese Gongfu lessons, as well as a fun sports meeting, will be offered.

ELIGIBILITY

Graduate and senior undergraduate students majored in Materials Science and Engineering (MSE), or any other majors related to MSE, such as mechanical engineering, physics, and chemical engineering, are eligible.

A total of 40 domestic and overseas participants will be recruited.

ABOUT FACULTY

The lecturers will be from:

USA: Harvard University, Northwestern University

EU: KTH Royal Institute of Technology (Sweden),

UK: University of Cambridge

ASIA: Nanyang Technological University (Singapore)

CHINA: Shanghai Jiao Tong University

For most updated list of confirmed lectures, please visit the website of "Zhi-Hong" ISS-AM: <https://smse-iss.sjtu.edu.cn/>

FEES & SCHOLARSHIPS

Tuition: 3000 RMB (about \$430), which covers tuition fee, cultural activities and field trips.

Participants are responsible for accommodation (about 150 RMB/day, twin bed room), daily meals (about 50 RMB/day), local transportation,

airfare, and insurance. (Participants are required to purchase travel insurance in their own country BEFORE coming to China.)

Type A: "Zhi-Hong Future" Scholarships

Amount: 8000 RMB/person

Number: 5

Each "Zhi-Hong Future" scholarship covers the tuition fee (3000 RMB) and part of the international travel costs up to 5000 RMB/person.

Type B: "Zhi-Hong Excellence" Scholarship

Amount: 3000 RMB/person

Number: more than 85% of the enrolled participants

Each "Zhi-Hong Excellence" scholarship covers the tuition fee (3000 RMB).

HOW TO APPLY

For all students: apply via questionnaire <https://www.wjx.cn/vm/Olnbk1F.aspx#>

For international students: also need to apply online at <http://apply.sjtu.edu.cn>

If international students can apply before March 23, it will help them apply for a certain national funding program.

(However, there is no guarantee that it will be obtained)

Application deadline: May 12, 2026

Selection results will be notified by email to the applicants at the end of May 2026.

PROGRAM AGENDA (Tentative)

Day	Time	Event
1	Jul 12, Sun	Registration
2	Jul 13, Mon	Opening Ceremony, Ice-break, Campus Tour
3	Jul 14, Tue	Lectures, Special Program
4	Jul 15, Wed	Lectures, Fun Sports Meeting
5	Jul 16, Thu	Lectures, Dragon Boat Lesson
6	Jul 17, Fri	Group Discussions, Field trip
7	Jul 18, Sat	Culture Activities
8	Jul 19, Sun	Free Time
9	Jul 20, Mon	Lectures, Cultural Festival
10	Jul 21, Tue	Lectures, Gongfu Lesson
11	Jul 22, Wed	Lectures, Field trip
12	Jul 23, Thu	Lectures, Group Discussions
13	Jul 24, Fri	Group Presentation, Awards & Closing Ceremony
14	Jul 25, Sat	Leave Shanghai



CONTACT US

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