



The 5th “Zhi-Hong” International Summer School of Advanced Materials (ISS-AM) -Advanced Functional Materials

Time:
July 5-18, 2020

Venue:
Minhang Campus,
Shanghai Jiao Tong University

Program Overview

About ISS-AM

The “Zhi-Hong” International Summer School of Advanced Materials (ISS-AM) is organized by School of Materials Science and Engineering (SMSE) at Shanghai Jiao Tong University (SJTU), aiming at promoting the interactive cultural and academic exchange between top-level scholars and students from all over the world. The ISS-AM is named as “Zhi-Hong” not only to commemorate the school founder Professor Zhihong Zhou, but also to inspire the summer school participants since “Zhi-Hong” in Chinese means “being ambitious”. “Zhi-Hong” ISS-AM is a two-week program with one theme every year.

“Advanced Functional Materials” will be the theme of the program in 2020.

In the last four years, the 1st to 4th “Zhi-Hong” ISS-AM were organized successfully. 96 foreign students from over than ten countries and 105 outstanding Chinese students have been selected to attend the past four events. Many renowned experts and scholars from our university and foreign institutes, e.g. Harvard University, Northwestern University, The Ohio State University, Osaka University, Monash University, National Institute for Materials Science in Japan, Federal University of Sao Carlos, were invited to give academic lectures.

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 59 in 2019 QS world university rankings.
- SJTU was ranked 82 in 2019 ARWU.
- The number of majors at SJTU listed in ESI's top 1% is 19 in 2019.

Introduction to SMSE

Materials Science and Engineering (MSE) program in SJTU

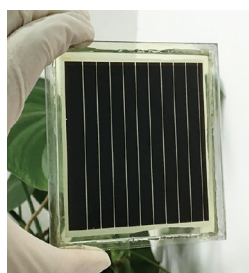
was ranked 25 in 2019 QS world university ranking.

has been consistently remained in national top 5 in last ten years.

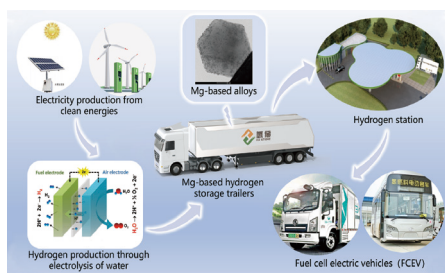
was ranked No. 1 by the Ministry of Education in 2003.

was authorized as the first-class National Key Discipline in 2007.

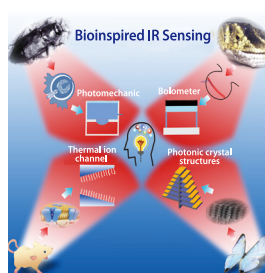
has been listed in world top 1% discipline of ESI for 10 years.



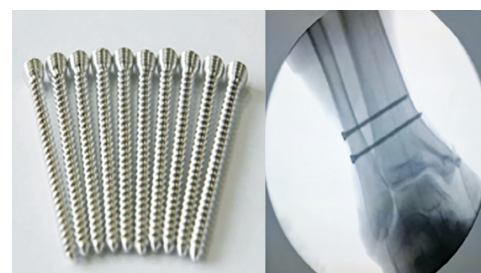
Low-cost highly efficient and stable perovskite solar cells



Mg based hydrogen storage materials and applications



Bioinspired Thermal Detection



Biodegradable JDBM magnesium alloy orthopaedic implants



ACTIVITIES

1) Lectures

Lectures about advanced functional materials will be given by distinguished professors from overseas universities and SJTU.

2) Poster shows

All participants are required to prepare an academic poster in advance. During the summer school, the most popular poster and the best poster will be voted to pick out.

3) Field trips

On campus:

The research labs affiliated to SMSE at SJTU, e.g. State Key Laboratory of Metal Matrix Composites, Light Alloy Net Forming National Engineering Research Center.

Off campus:

Visits to research facilities and manufacturing companies in Shanghai, e.g. Shanghai Synchrotron Radiation Facility (SSRF), SAIC Volkswagen Company, etc.

4) Student seminars

All participants will be teamed up into several study groups. Students in each group will work together on a topic. Groups will make a final competition with each other through group presentation. The faculty committee will choose the best group and present the group members "Award of Excellent Team".

5) Culture activities

Campus tour, Chinese culture activities, and Shanghai city tour will be arranged.

PROGRAM AGENDA (Tentative)

Day	Time	Event
1	5-Jul, Sun	Arrival, Registration
2	6-Jul, Mon	Opening Ceremony, Teaming-up, Campus Tour, Ice-breaking, etc.
3	7-Jul, Tue	Lectures
4	8-Jul, Wed	Lectures
5	9-Jul, Thu	Lectures
6	10-Jul, Fri	Company Visit
7	11-Jul, Sat	Culture Tour
8	12-Jul, Sun	Free time
9	13-Jul, Mon	Lectures
10	14-Jul, Tue	Lectures
11	15-Jul, Wed	Lectures, Cultural Festival
12	16-Jul, Thu	Company Visit
13	17-Jul, Fri	Group Presentation, Awards & Closing Ceremony
14	18-Jul, Sat	Departure

ELIGIBILITY

Graduate and senior undergraduate students who are majored in Materials Science and Engineering (MSE), or any other majors related to MSE, such as mechanical engineering, physics, and chemical engineering. A total of 60 overseas and domestic participants will be recruited. SJTU will provide necessary assistance for the participants to apply for the visa to come to China.

ABOUT FACULTY

The lecturers will be from:

USA: Northwestern University, Harvard University

Germany: TU Dresden

Australia: Monash University, University of New South Wales

China: Shanghai Jiao Tong University

For most updated list of confirmed lectures, please visit the website of "Zhi-Hong" ISS-AM: <http://en.smse.sjtu.edu.cn/admission/admission.aspx?id=5>

FEES

Tuition: 3000 RMB

Others costs: meals (~50 RMB/day) and transportation

The summer school will cover the costs of lecture materials, lodging (in SJTU student dormitory), and transportation for group activities.

SCHOLARSHIPS

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" Scholarships

Amount: 3000 RMB/person

Number: more than 80% of the enrolled participants

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

HOW TO APPLY

For international students: Apply on the website <http://apply.sjtu.edu.cn>. Please provide GPA (e.g. **/100), Ranking (in percentage) and academic transcript online.

For Chinese students: The applications should be submitted to Ms. Weihui Xie by email at zh_iss@sjtu.edu.cn. The application materials include 1) application form, 2) CV, 3) academic transcripts, 4) IELTS/TOEFL/CET6 score certificate or any other certificate showing the competency of English (waived for native English speakers), and 5) a one-page personal statement.

Application deadline: **Apr. 15, 2020**



Website

<http://en.smse.sjtu.edu.cn/admission/admission.aspx?id=5>

CONTACT US

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