

Global Summer School

Chasing Future : Advanced Optoelectronic Information Materials

July 20–31, 2026

Harbin Institute of Technology, Harbin, P.R. China

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**Contact Information**

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General Information

Optoelectronic information materials are indispensable key core materials in the high-tech field. The "Chasing Future : Advanced Optoelectronic Information Materials" Global Summer School will further integrate high-quality resources from top domestic and foreign scientific research institutions, and invite authoritative experts and scholars in this field worldwide. Focusing on cutting-edge scientific issues and interdisciplinary innovation points in the field of optoelectronic information materials, the school will offer a series of frontier lectures and innovative practical courses. Through theoretical learning and group research projects, participants will delve into areas such as materials for optoelectronic conversion, photovoltaic materials and devices, energy storage systems, and advanced display technologies. This summer school provides an excellent platform for participants to access the latest progress in optoelectronic information materials, communicate with global authoritative experts and scholars, collaborate to tackle technical challenges, and make academic partners worldwide. Participants are mainly expected to attend offline, with the option of online participation.

Attendance Requirements

Open to undergraduate or graduate students, applicants are required to have relevant academic backgrounds in materials science, optics, Optoelectronic Information Science, chemistry, electronic information science, etc. All participants must possess proficient English proficiency.

Lectures and Talks (Tentative)

The summer school will offer 16 class hours of academic courses and 4 special-topic lectures. Lecturers and speakers are invited from top universities and scientific research institutions worldwide, including City University of Hong Kong, Russian Academy of Sciences, Linköping University, University of Surrey, Chalmers University of Technology-, Jackson State University, and Aalborg University.

Topic (preliminary)	Units (50 mins/unit)
Advanced Optoelectronic Materials and Devices	16 (Academic courses)
Integrated Material, Interface, and Process Engineering for Highly Efficient Organic, Perovskite, and Hybrid Devices	2 (Lecture)
Optoelectronic Materials Design and Characterization by EPR	2 (Lecture)
The Interfacial Energy Barrier in Photovoltaic Devices	2 (Lecture)
Large-Area Flexible Organic Solar Cells: Research and Applications	2 (Lecture)

University of Technology-, Jackson State University, and Aalborg University.

Group Research Project

The group research project includes an innovative experiment and an academic competition on optoelectronic information materials and devices. In the experiment, students will prepare solar cell and photodetector materials and devices, integrating fundamental knowledge with hands-on practice to deepen their understanding. For the competition, 2-3 special topics will be set up, and students will participate in teams. Through independent learning of students and guidance from mentors, they will collect relevant knowledge on the topics, prepare competition materials and take part in the competition. The competition aims to help students understand the frontier of scientific research and cultivate their abilities in academic induction and summary, academic innovation and team cooperation.

Campus Culture and Technological Experience

Participants will be organized to visit Harbin Institute of Technology's University Museum, Aerospace Museum, and key laboratories of the School of Materials, so as to systematically understand the university's development history, brilliant achievements in the aerospace field, and scientific research achievements in the field of optoelectronic information materials. Senior professors of the university will be invited to give a themed sharing on "HIT Spirit and National Defense Responsibility" to enhance participants' patriotism and sense of mission in serving national strategic needs.

International Cultural Exchange

An international cultural exchange ice-breaking activity will be held at the beginning of the summer school. Through fun games, cultural displays, group cooperation and other forms, it will promote communication and understanding between Chinese and foreign participants; during the summer school, activities such as campus orienteering and cultural experience days will be organized to allow participants to enhance friendship through interaction, improve cross-cultural communication capabilities, and create an open and inclusive learning atmosphere.

Program Dates and Times

	Week 1 (July 20–24)					Week 2 (July 27–31)				
	Mon	Tue	Wed	Thur	Fri	Mon	Tue	Wed	Thur	Fri
M	Mentor Meeting	Courses	Courses	Lecture	Lecture	Innovative Experiment	Innovative Experiment	Group Research	Group Research	Defense
A	Campus Tour	Lecture	Lecture	Courses	Courses	Innovative Experiment	Innovative Experiment	Group Research	Group Research	Closing Ceremony

(Registration: July 19, 2026)

Please note that the program schedule is subject to change based on actual circumstances.