

Global Summer School

Arctic Environment and Ecosystem

July 13–26, 2026

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



Contact Information

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General Information

The Arctic is one of the most stunning but fragile ecosystems on Earth, once characterized by its vast expanses of pristine ice and snow. The relentless march of climate change is transforming these landscapes at an unprecedented pace. Rising temperatures, melting glaciers, and shifting weather patterns are triggering a cascade of ecological disruptions with far-reaching consequences. Once in the environment, persistent organic pollutants (POPs) and Chemicals of Emerging Arctic Concern (CEACs) disperse into air, water, soil, and sediments in the Arctic, and can be taken up by Arctic biota. Many of the processes that determine the environmental fate of POPs and CEACs and their potential for uptake and bioaccumulation in food webs can be influenced by climate change. Participants will deepen their understanding of carbon emissions and the carbon cycle in cold regions in the context of climate change. It is an excellent opportunity for participants to get access to frontiers in Arctic Environment and Ecosystem, to work together tackling challenges, and to make academic friends worldwide.

Attendance Requirements

This Summer School invites undergraduate students and graduate students from universities worldwide who are passionate about the Arctic and wish to gain scientific knowledge of its environment. This program is open to undergraduate students and graduate students from all academic backgrounds. Applicants should be motivated to foster mutual understanding and friendship among peers from different countries. Proficiency in English (both oral and written) is required for academic participation.

Lectures and Talks (Tentative)

The summer school offers one intensive lecture and seven seminar talks. Lecturers and speakers are invited from top institutions in Russia, Norway, Canada, and China, including North-Eastern Federal University, Norwegian University of Life Sciences, Harbin Institute of Technology, Chinese Research Academy of Environmental Sciences, China Institute for Innovation & Development Strategy, and Research Center for Eco-Environmental Sciences.

Topic (preliminary)	Units (50 mins/unit)
Pollution of the Arctic Ecological Environment	24 (lecture)
Frost Resistant Elastomeric Materials for Northern Climate	2 (talk)
Permafrost as an Environmental Variable in Earth Sciences under Changing Climate	2 (talk)
Permafrost Landscape Structure	2 (talk)
Introduction to Biodiversity in China	1 (talk)
China in the Arctic: Identity, Interests, Challenges, and Strategy	1 (talk)
Persistent Organic Pollutants in Polar Regions	1 (talk)
Methods for Detecting Pollutants in the Atmosphere	1 (talk)

Group Research Project

Participants will be grouped into 8 teams or more, each consisting of 6–8 members, to collaborate on projects related to carbon emissions and carbon cycle under the background of climate change in cold regions, Arctic air and water pollution, and ecological dynamics. Each group is expected to conduct discussions and deliver presentations as a team.

Program Dates and Times

	Week 1 (July 13–19)						Week 2 (July 20–26)					
	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat
M	Opening Ceremony & International Orientation	Lecture				Tour	Lecture	Talk	Internship at Monitoring Station	Group Research	Tour	
A		Talk					Group Research & Group Report	Group Report				
					Closing Ceremony							

(Registration: July 12, 2026)

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