

KIGAM & i-WSSM

Joint Capacity Building Program for Next Generation Water Security Leaders with a Focus on Groundwater

CALL FOR APPLICATIONS

The Korea Institute of Geoscience and Mineral Resources (KIGAM) and the International Centre for Water Security and Sustainable Management under the auspices of UNESCO (i-WSSM) are pleased to announce the [Joint Capacity Building Program for Next Generation Water Security Leaders with a Focus on Groundwater](#). The program will take place from Sunday, July 13 to Friday, July 18, 2025, in Daejeon and Jeju Island.

* The program will begin with an **on-site orientation** session and dinner on Sunday, July 13 at KIGAM IS-Geo in Daejeon.

Overview

This field-based program is designed to equip participants with applied knowledge and global perspectives on the sustainable management of groundwater resources, particularly in terms of quantity and quality. Through a balanced combination of expert-led lectures and immersive study visits—including visits to UNESCO-designated natural heritage sites—participants will deepen their understanding of groundwater systems, policies, and technologies in the context of climate resilience and sustainable development.

Site Visits	Lectures
<ul style="list-style-type: none"> • K-water • Hancheon Reservoir • Hanbalk Reservoir • Suwolbong Peak • Western Wastewater Treatment Plant • Geomun Oreum Volcanic Cone, etc 	<ul style="list-style-type: none"> • Water Crisis and the Role of Groundwater • Status and Challenges of Groundwater Management • Groundwater Contamination and Remediation • Managed Aquifer Recharge (MAR) • Coastal Groundwater Management • Utilization of Groundwater, etc

*The schedule may be subject to change

[\[For further details, please refer to Annex 1\]](#)

Objectives

This capacity-building program provides comprehensive knowledge of groundwater geology and its hydrological cycle. Participants will also learn about the value of the cultural and natural significance of groundwater.

Program type & language

This course is a hybrid program, consisting of an **online pre-course*** and a **5-day face-to-face course** including lectures and study visits. The entire program will be conducted in **English**.

* *The topics include water security and groundwater, etc.*

Cost

The full amount of expenses will be covered by the organizers.

- **Covered:** Transportation including round flight ticket to Jeju Island, accommodation, meals, program expenses, basic travel insurance
- **NOT covered:** Compensation for damage and indemnification caused by participants, medical expenses exceeding insurance coverage, other personal expenses

* *Transportation during the official program will be covered by the organizing institution, however, for individual train tickets, bus, etc. on arrival (starts in Daejeon) and from return airport (three options of the airport are given in the application form) to residence should be arranged and covered individually.*

Application guidelines

Interested individuals who meet the eligibility criteria below and are available during the program period are invited to complete the application form directly via the following link: <https://forms.gle/zAov2scmHZdN7yuW6>.

Eligibility

The program is designed for students who have an academic or professional background in **water-related fields**.

All applicants must meet the following criteria:

- ✓ An international student currently enrolled in an academic program in Korea.
- ✓ He/she must hold a valid visa for the Republic of Korea and live in Korea during the program.
- ✓ He/she must not have previously participated in any program organized by i-WSSM.
- ✓ Proficiency in English.

Applicants with the following criteria are preferred:

- ✓ Applicants from a country in the OECD DAC List of ODA Recipients.
- ✓ Professional working experience as a government official, staff member of an

organization, or relevant stakeholder working directly on issues regarding (ground) water.

- ✓ Applicants majoring in water-related fields such as water resource management, environmental/ agricultural engineering, etc.
- ✓ Applicants who demonstrate a desire to engage in the program with a clear vision and purpose in the application form.
- ※ This program promotes the minimum women participation rate (30%) for gender-balanced opportunities.

Due dates

23:59(KST), 14 May 2025

Certificate

Participants will be awarded a certificate after completing all course requirements.

Notes

- The results of the selection will be announced on our website (unesco-iwssm.org – Newsroom - Announcements) by **6 pm (KST), 25 May 2025**. Selected applicants will be contacted individually.
- Selected applicants are required to complete an online pre-course before the program.

Annex 1 : Program Schedule

Date	Time	Content	Instructor
July 13 (Sun)	Gathering and Orientation		
	16:00 ~ 16:30	Daejeon Station → KIGAM	IS-Geo & i-WSSM
	16:30 ~ 18:00	Orientation	
	18:00 ~ 20:00	Welcome Dinner	
July 14 (Mon)	Opening Ceremony, Country Presentation and K-water Visit		
	09:20 ~ 10:00	Opening Ceremony at KIGAM	KIGAM
	10:00 ~ 12:00	Country Presentation	
	12:00 ~ 13:00	Lunch	
	13:00 ~ 15:00	(Lecture 1) Water Crisis and the Role of Groundwater (Lecture 2) Status and Challenges of Groundwater Management	
	16:00 ~ 17:50	(Visit 1) - K-water Integrated Water Resources Center - National Drought Information Analysis Center(NDIC) - National Groundwater Information Center	K-water
July 15 (Tue)	Lecture (KIGAM)		
	09:30 ~ 12:00	(Lecture 3) Groundwater Contamination and Remediation	
	12:00 ~ 13:00	Lunch	
	13:00 ~ 15:30	(Lecture 4) - Managed Aquifer Recharge (MAR) - Coastal Groundwater Management	
	15:30 ~ 17:30	(Lecture 5) Utilization of Groundwater : Focusing on Shallow Geothermal System	
July 16 (Wed)	Site Visit (Jeju-island)		
	09:00 ~ 12:00	Transit Daejeon to Jeju (via flight)	
	12:00 ~ 13:30	Lunch & Transit to Site Visit	
	13:30 ~ 14:15	(Lecture 6) Groundwater Monitoring System in Jeju : Status and Challenges	
	14:30 ~ 15:15	(Visit 2) Hancheon Reservoir : Managed Aquifer Recharge	
	15:35 ~ 16:10	(Visit 3) Hanbalk Reservoir : Drinking Water Supply Resource, Spring	

		Water from Highland Area	
	16:30 ~ 17:00	(Visit 4) Horticultural Seed and Nursery Research Center : Rainwater-based Managed Aquifer Recharge	
	17:40 ~ 18:10	(Visit 5) Suwolbong Peak : Volcanic Rock and Pyroclastic Deposits	
July 17 (Thu)	Site Visit (Jeju island)		
	08:30 ~ 09:00	Transit to Site Visit in Jeju	
	09:00 ~ 11:00	(Lecture 7) Wastewater Treatment and Reuse in Western Jeju (Visit 6) Western Wastewater Treatment Plant	
	11:00 ~ 13:00	Lunch & Transit	
	13:00 ~ 15:00	(Visit 7) Geomun Oreum Volcanic Cone : Starting Point of Lava Tube System in Northeastern Jeju	
	15:00 ~ 16:00	(Visit 8) Groundwater Drilling Site	
	17:00 ~ 18:00	(Visit 9) Cheonjaeyeon Waterfall : From Groundwater to Surface Water	
	18:00 ~ 20:00	Goodbye Dinner	
July 18 (Fri)	Site Visit (Jeju island)		
	08:30 ~ 08:45	Check Out	
	09:30 ~ 11:30	Group Presentation & Closing Ceremony	
	11:30 ~ 13:00	Lunch & Transit	
	14:00 ~ 15:00	(Visit 10) Manjanggal : Groundwater Flow and Natural Geological Lava Tube	
	15:00 ~ 16:00	Jeju Airport End of the Training Course	

Note: Lecturers, topics and orders can be subject to change.