

4th Edition of

ARC-HEST 2026-2027

Architecture for Human Environment
with Smart Technologies

스마트 기술을 이용한 인간적 환경의 건축

Swiss-Korean Academic Exchange Program:

Study of the synergy of architectural design, human factors, and technologies as well as their combined effects on the indoor environmental quality (IEQ) and human-building interaction in the context of the local culture and architecture *with real prototyping experiences*



The strong traditions, use of advanced technologies and direction towards a sustainable society, that Switzerland and South Korea share, pave the way to the international cooperation **ARC-HEST** between two countries to raise awareness about urbanism and related social issues and facilitate solutions inspired by different cultures and policies. Through the collaborative work of Swiss and Korean academicians and students from different disciplines, the program aims to comprehensively study the working environment in each country in conjunction with the local culture and architecture.

Program Dates (Participation in both schools mandatory)

Part 1: **17 - 28 August, 2026** in **Fribourg, Switzerland**

Part 2: **25 January - 5 February, 2027** in **Seoul, Korea**

Focus 2026-2027

- The **interaction** between **architecture materiality** and **atmosphere** : By analyzing the engenderment relationship between the materiality and atmosphere, the groups revisit the essential questions of “*What are the fundamentals elements of architecture.*”
- **Summer School 2026 in Switzerland** : analysis of the effects of diverse materials on indoor performance measures and create prototypes of the resulting fictional space atmospheres
- **Winter School 2027 in South Korea** : real building case studies for ideation of how the fictional atmospheres of an actual space impacts their materiality

Key Eligibility:

- *Be committed* to participating in both Exchange Schools
- Have *good English communication skills*

Each Exchange School will involve a total of selected **30 students** equally shared between 2 countries. Each country coordinates the selection of students that have applied at the three individual universities. However, the trans-disciplinary approach has been identified as the *fundamental element* for the generation of innovative solutions applied to the built environment within the framework of this Exchange Program. Therefore, the common selection guidance is to aim for an interdisciplinary mix of excellent students.

Targeted Outcomes:

- Establishment of the long-term cooperation programme between the partners, facilitate the exchange of ideas among students and enhance creativity.
- Increased mutual knowledge of Swiss and Korean cultures and traditions in architecture, engineering, and technology.
- Reinforced Swiss scientific and cultural presence in the fields of architecture and construction in East-Asia and vice versa.
- Dissemination of the results of the two Exchange Schools.
- Joint research topics originated from the meeting of different competencies among the academicians of the universities involved in the programme.
- Long-term research cooperation and scientific publications as a result of the joint research.

