

# KOSEN Global Camp 2023 (September 13-22, Akashi college(KOSEN))

## International Collaborative Workshop on Countermeasures against Natural Disasters

Date: September 13-22, 2023

Venue: National Institute of Technology,  
Akashi College (Akashi Kosen)

Accommodation: Akashi Kosen International  
dormitory.

Participation fee: International airfare and  
living expenses in Japan (Akashi Kosen  
International Dormitory) will be paid by JST  
Sakura Science Exchange Program.

Participation requirements: This is an  
English-based program. There are no  
requirements regarding English proficiency,  
however, the applicants are expected to have  
the will to actively participate in discussions using English.



### About National Institute of Technology, Akashi College

National Institute of Technology, Akashi College (Akashi Kosen) is located in the western part of Akashi City along the 135th east longitude. It was founded in 1962 as one of the first 12 national technical colleges of Japan.

In 1996, An Advanced Course was established to provide a bachelor's degree.

Currently, we have four departments, which include the Departments of Mechanical Engineering, Electrical and Information Engineering, Civil Engineering, and Architecture.

### About the Workshop Program

Japan, a country prone to natural disasters, can be considered an advanced country in terms of disaster prevention technology and disaster prevention education. In particular, the area around Akashi City, where our school is located, was severely damaged by the Great Hanshin Awaji Earthquake in 1995. Since then, our school has established a subject called Disaster Prevention Literacy as a compulsory subject, and has focused on education related to disaster prevention. Disaster prevention technology is a problem that can be solved by use of comprehensive technologies such as mechanical engineering, electrical engineering and construction engineering. This problem is considered to be one of the most suitable topics for students majoring in a wide variety of specialties to work together to take up. In this program, students will learn the basics of engineering design methods and disaster prevention literacy, and learn how to use them through a series of workshops. During the training, participants will visit the Disaster Reduction and Human Renovation Institution and the Memorial Park, where they will also experience the process of applying empathy, which is required in engineering design, to product development. Finally, the students' group will propose a prototype and make a presentation. In addition, this program fosters competency for collaborative work in the international community by conducting collaborative work with participants from multiple countries.

## Workshop Program

### Advance Online Program

16/08/23	PM	Orientation (precautions, conveying program content) <b>CANCELLED</b>
21/08/23	PM	Description of pre-assignment
28/08/23	PM	Follow-up on pre-assignment, information sharing, final confirmation



### On-Campus Program

13/09/23	AM	Arrival	(Kansai Int'l Airport)
	PM	Orientation	(Akashi Kosen)
14/09/23	AM	Interactive lecture of disaster prevention literacy	(Akashi Kosen)
	PM	lecture of engineering design	(Akashi Kosen)
15/09/23	AM	Discussion: Globally shared issues of natural disasters	(Akashi Kosen)
	PM	Problem identification	(Akashi Kosen)
16/09/23	AM	Disaster prevention study tour at the Disaster Reduction and Human Renovation Institution	(Kobe)
	PM	Cultural exchange tour	(Kobe)
17/09/23	AM	Cultural exchange tour	(Kyoto)
	PM	Cultural exchange tour	(Kyoto)
18/09/23	AM	Empathize with issues and extract problems	(Akashi Kosen)
	PM	Prototype proposal: suggest solutions for the issues	(Akashi Kosen)
19/09/23	AM	Making the prototype	(Akashi Kosen)
	PM	Making the prototype	(Akashi Kosen)
20/09/23	AM	Re-discussion: Progress of prototype making	(Akashi Kosen)
	PM	Modification of the prototype Creating the presentation of progress and results	(Akashi Kosen )
21/09/23	AM	Achievement presentation	(Akashi Kosen )
		Closing ceremony	(Akashi Kosen )
	PM	Cultural Exchange Tour (Himeji Castle)	(Himeji)
		Opinion exchange	(Akashi Kosen )
22/09/23	AM	Student dormitory check-out	(Akashi Kosen)
	PM	Departure	(Kansai Int'l Airport )