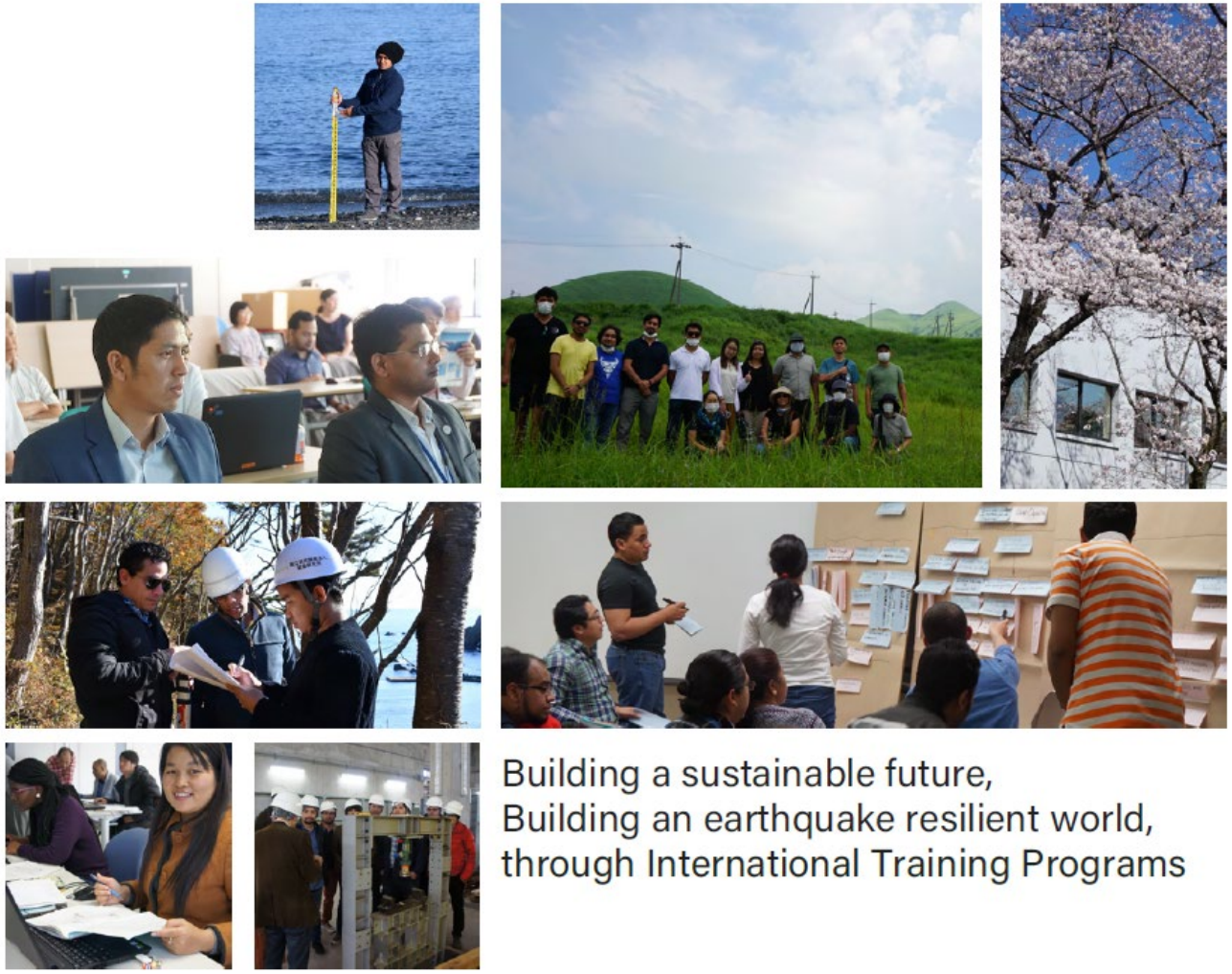
International Institute of Seismology and Earthquake Engineering (IISEE), Building Research Institute (BRI)



In order to contribute to earthquake and tsunami disaster mitigation, the International Institute of Seismology and Earthquake Engineering (IISEE) at the Building Research Institute (BRI), in cooperation with JICA, has provided training courses in seismology, earthquake engineering and tsunami disaster mitigation to researchers and engineers from developing countries.

https://iisee.kenken.go.jp/en/assets/pdf/brochure_en_20220622.pdf

IISEE training programs

	Training Course	Estimate	Period	Commencement
Regular	Seismology	6	One year (Oct.-Sep.) Lectures in Class (8 months) Individual Study (3 months)	1960
	Earthquake Engineering	10		
	Tsunami Disaster Mitigation	4		2006
Short-term	Global Seismological Observation	10	2 months (Jan.-Mar.)	1995
	Latin American Earthquake Engineering	10-15	2 months (2 weeks in Latin America)	2014

JICA Knowledge Co-Creation Program (Group & Region Focus)：
Seismology, Earthquake Engineering and Tsunami Disaster Mitigation

Since 1962, the International Institute of Seismology and Earthquake Engineering (IISEE) of the Building Research Institute (BRI) has been training researchers and engineers in seismology and earthquake engineering with the cooperation of JICA, UNESCO, and leading Japanese and foreign researchers. The aim is to reduce damage to buildings caused by earthquakes and tsunami disasters around the world.

Training Objectives and Characteristics

The program will nurture and educate leading researchers, engineers, and government officials in the fields of seismology, earthquake engineering, and tsunami disaster mitigation. They will then be able to contribute to earthquake and tsunami disaster prevention.
Upon completion of the one-year training course, participants will be awarded a Master's degree (Disaster Management Policy) from the National Graduate Institute for Policy Studies (GRIPS) and the Building Research Institute.

Contents of training

There are three courses (Seismology, Earthquake Engineering, and Tsunami Disaster Mitigation).
Groupe Training (8 months)

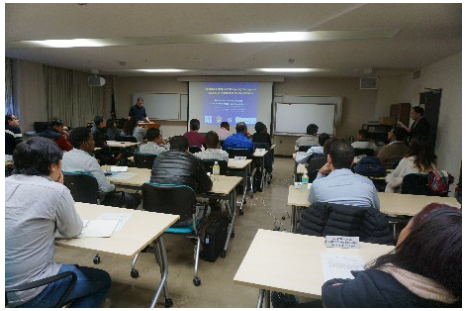
- Earthquake Engineering: Geomechanics, structural mechanics, seismic design, seismic diagnosis and reinforcement, seismic hazard and risk assessment;
- Seismology: Information technology, earthquake phenomenology, earthquake circumstance, characteristics of earthquake disasters;
- Tsunami Disaster Mitigation: Earthquake phenomenology, theory of tsunami, tsunami hazard assessment, tsunami countermeasures;
- Common lectures: Disaster management policies, study trips.

Individual Study (3 months)
To complete a research report (Master's report) for solving problems in participants' countries by applying techniques and knowledge acquired in the course.

Outline of Training

Program	Seismology, Earthquake Engineering and Tsunami Disaster Mitigation
Institution	Building Research Institute
Period	Early October - Early September (for approximately one year)
Capacity Language	Twenty English

IISEE ex-participants are working very actively in government ministries, national research institutes, universities, etc. as directors or professors!



Lecture Scene

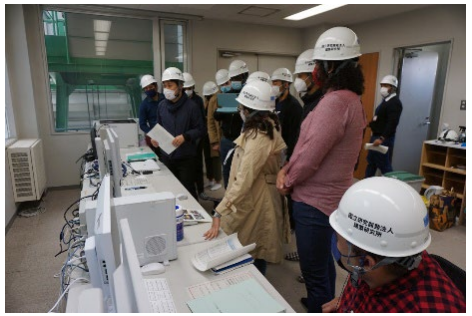


Photo in the laboratory building

Knowledge Co-Creation Program (Group & Region Focus)
Global Seismological Observation Course

The course was launched in 1995 at the request of the Ministry of Foreign Affairs of Japan. It is conducted as part of Japan's contribution to the world's nuclear disarmament in cooperation with JICA and the Japan Meteorological Agency (JMA).

Course objective

The program objective is for participants to acquire knowledge and advanced techniques of global seismological observation for playing an important role in the monitoring system of nuclear tests under the Comprehensive Nuclear-Test-Ban Treaty (CTBT) and also natural earthquakes.

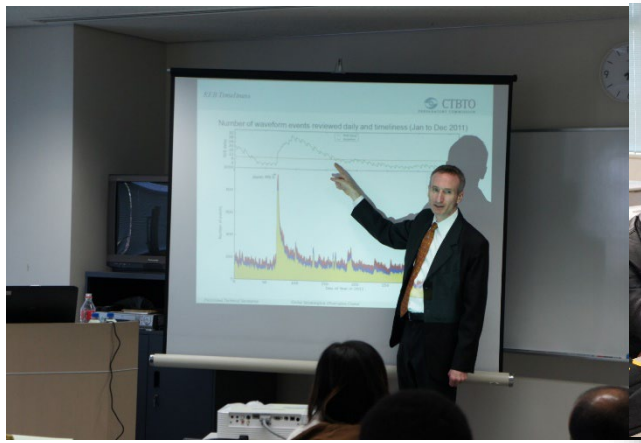
Contents of training

Participants are expected to study the following:

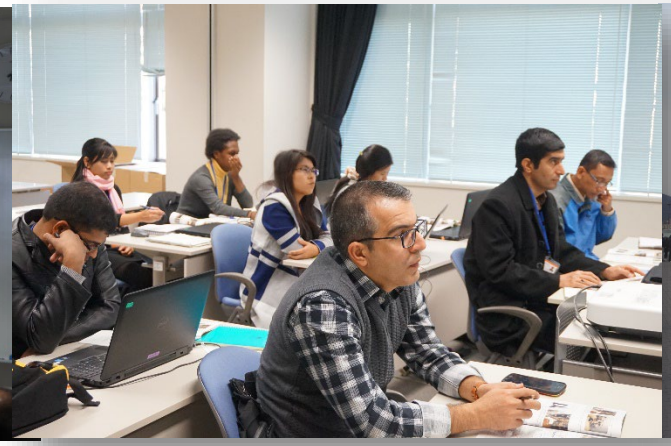
- the role of seismology in the CTBT,
- seismological observation technologies for monitoring nuclear tests and earthquakes,
- analytical techniques to discriminate nuclear tests from natural earthquakes,
- analysis of natural earthquakes.

Study trips: Hiroshima and Kobe, Japan Meteorological Agency

Program	Global Seismological Observation
Institution	Building Research Institute (BRI)
Period	Early January - Early March (two months)
Capacity, Language	Ten, English



Lecture by CTBTO


Lecture at BRI


Study trip to A-Bomb Dome in Hiroshima