



## **GSJ International Training Course on Practical Geological Survey Techniques 2018 - application to geological disaster mitigation -**

March 14, 2018  
Geological Survey of Japan, AIST

### ■ Scope

The Geological Survey of Japan (GSJ) starts regular training course for young geological researchers and engineers in the CCOP member countries from 2018. This training course focuses on practical geological survey techniques, considering that accurate geological mapping is fundamental for natural resources development, environmental conservation, and mitigation of geological disasters. GSJ has published geological maps in Japan, which is tectonically active and its geology is very complex, for more than 130 years and contributed to the national prosperity and safety. Today, geological maps have become more reliable and accessible with the latest analytical methods and information technology. This training course offers the participants an opportunity to improve their geological survey skills through intensive lectures, field trips, and laboratory practices. This year, the GSJ's researches on geological disaster mitigation are also introduced in the course.



### **Outline of the Course**

Period: 26 June - 13 July 2018

Venue: Geological Survey of Japan, Tsukuba, Japan

Language: English

Quota: One person from one country (except for China and the Republic of Korea)

Lecturers: GSJ researchers and other Japanese organizations

Fees: None

Travel costs: Economy-class round-trip air ticket between the trainee's country and Tokyo-Narita as well as accommodation at the GSJ guest house will be provided by GSJ.

### ■ Objectives

- Buildup of practical capability on geological mapping based on field survey and laboratory work.
- Human networking not only among the trainees but also with GSJ researchers.
- Promotion of collaborative geoscience research activities in the future.

### ■ Who can apply?

- Young geological researchers and engineers in the CCOP member countries who;
  - belongs to a national geological survey institute and is involved in the surveys to produce geological and other geoscientific maps of the country;
  - can write reports and give presentations about geology of the country and his/her researches in English; and
  - is eager to learn advanced geological survey techniques in Japan.
- One person from each CCOP member country with the nomination by the Permanent Representative of the country to CCOP.

## ■ Links with 2030 Agenda



This project is in accordance with the Goal 11 “Sustainable Cities and Communities” of the United Nations Sustainability Development Goals (SDGs).

## ■ Course topics

*First day: Opening and Country Report presentation*

- ✓ Visit to the Geological Museum of GSJ

*Section 1: Practical geological survey techniques for accretionary geology (5 days)*

- ✓ Petrology: lecture and practice (petrographic thin section microscopy, elemental analysis using EPMA, etc.)
- ✓ Geochronology: lecture and practice (SEM observation of radiolarian fossils, U-Pb dating of zircon, etc.)
- ✓ Field excursion and surveys around Tsukuba
- ✓ Interpretation of geological structure



*Section 2: Exploration and analysis techniques (3 days)*

- ✓ Gravity and magnetic survey
- ✓ Remote sensing
- ✓ GIS

*Section 3: Application to geological disaster mitigation (3 days)*

- ✓ Geohazard (earthquake, volcano, landslide, etc.)
- ✓ Urban geology (3D modeling, earthquake ground motion, etc.)
- ✓ Visit to a geological consultant company



*Last day: Discussion, Reporting and Closing*

## ■ How to apply

Send the following documents to the Secretariat by e-mail. Deadline is April 20, 2018.

- 1) Application Form
- 2) CV
- 3) Nomination Letter by the Permanent Representative

### **Contacts:**

The Secretariat of GSJ International Training Course

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