PRACTICAL INFORMATION

Duration
9 weeks of training divided into 5 weeks of lectures in Geneva, 2 weeks of field immersion and 2 weeks of exams and project presentation. Lectures are given in English. Finally, a personal dissertation should be completed by the following February.

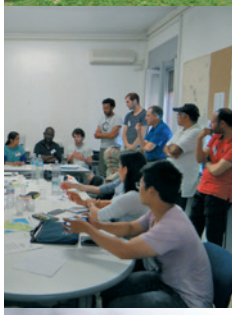
Admission
Candidates are selected on the basis of a submitted proposal, their professional experience and their academic background. More information on documents required:
www.unige.ch/hazards

Training Cost
Complete training (including university fees, course material and field work): **CHF 4400.-**

Living costs (i.e. accommodation, meals, insurance, public transport) are **between CHF 2200.- and 3900.-**

Grants are available to participants coming from developing or emerging countries.

Professional Perspectives
Previous participants having achieved the CERG-C certificate are working with national public administration (e.g. Universities, national environmental or construction agencies), international organizations (e.g. UN/ISDR) or private companies.



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CERGC

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FACULTY OF SCIENCE
Section of Earth and Environmental Sciences

UNIVERSITÉ DE GENÈVE
INSTITUTE FOR ENVIRONMENTAL SCIENCES

UNOSAT
satellite imagery for all

Schweizerischer Erdbebendienst
Swiss Seismological Service

UNISDR
The United Nations Office for Disaster Risk Reduction

UNIL | Université de Lausanne

heig-vd
Haute Ecole d'Ingénierie et de Gestion du Canton de Vaud

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

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CERG-C

SPECIALISATION CERTIFICATE
in Geological and Climate Related Risk

FACULTY OF SCIENCE

UNIVERSITÉ DE GENÈVE

COURSE OBJECTIVES

The purpose of this certificate is to train participants on how to integrate state-of-the art strategies of risk assessment and mitigation in their professional activities in an attempt to reduce the number of casualties. Key components of our program include hazard, vulnerability, risk assessment and management of geological and climate related events as well as how to communicate effectively with government agencies, media, public and private sectors, before, during and after hazardous events.

PARTICIPANTS

People working in the field of disaster reduction in governmental and non-governmental organizations or in private institutions, and those who wish to deepen their understanding of geological and climate related risk and risk management.

DEGREE AWARDED

The specialisation certificate in geological and climate related risk will be awarded to participants having fulfilled the CERG-C requirements:

- 5 modules and associated exams (18 ECTS credits)
- A personal dissertation (12 ECTS credits).

The degree corresponds to 30 ECTS (European Credit Transfer and accumulation System) credits.

Modules may be taken independently with prior discussion with the CERG-C committee.

WHAT IS OFFERED

- An enriching multidisciplinary and multicultural training environment
- Extended field studies of landslide, flood and volcanic risks

COURSE CONTENT (5 MODULES):

MODULE 1: RISK MANAGEMENT

Integrates a multi-disciplinary team of experts representing fields such as social sciences, geography, law, land-use planning, statistics, media communication and economics. The main goal is to provide participants with tools they can use to assess vulnerability and risk and provide solutions to risk management issues in their own countries.

MODULE 2: VOLCANIC RISK

Focuses on the basic understanding of volcanic processes and their associated hazards and risks. It also integrates the process of risk mapping and decision making during volcanic crisis.

MODULE 3: SEISMIC RISK

Introduces seismology, the seismic vulnerability of buildings and infrastructures, earthquake risk reduction measures and earthquake loss modelling.

MODULE 4: LANDSLIDE RISK

Addresses the causes and mechanisms of landslide phenomena, as well as mitigation strategies, such as engineering controls and land-use planning.

MODULE 5: FLOOD AND CLIMATE RELATED RISK

Discusses hydrological processes and both flood hazard and risk analysis, as well as mitigation measures. It also integrates climate related issues such as climate change and slow onset events (e.g. drought, sea level rise).

TEACHING TEAM

Our teaching team comprises some 25 international experts in the field of natural risk and disaster risk reduction.

Academic institutions

- University of Geneva (Section of Earth and Environmental Sciences and Institute for Environmental Sciences)
- University of Lausanne
- Swiss Federal Institute of Technology of Zürich (Swiss Seismological Service)
- Swiss Federal Institute for Forest, Snow and Landscape Research
- School of Business and Engineering Vaud
- Politecnico of Milan, Italy
- East Tennessee State University (Department of Geosciences), USA
- York University, Canada

Non-governmental, national and international organizations

- Swiss Geological Survey Swisstopo
- Swiss Federal Office for the Environment (Coordination Center for Earthquake Mitigation)
- Swiss Humanitarian Aid
- INGV, Italy
- Italian Civil Protection Department
- World Meteorological Organization, Geneva
- UNISDR, Geneva
- UNOSAT/UNITAR, Geneva