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## Exploring the Role of GIS Technology with Environmental Health and Human Health, Impacts, Vulnerability and Adaptations of Climate Change

3 – 25 November 2020

*Closing date for application :17 August 2020*

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### **TICA : Thailand International Cooperation Agency**

is a national focal point for Thailand's international development cooperation. TICA was established in 2004 to realize Thailand's aspiration to be a contributor of development cooperation. Believing that global challenges are best addressed by international cooperation and global partnership, today we continue to strengthen our contribution to achieve global development agenda through various capacity-building and human resources development programmes. In response to the recent changes in the global landscape of development cooperation, especially through the concept of South-South and Triangular Cooperation, TICA continues to realign our focuses in order to deliver Thailand's commitment to be a relevant partner in global agendas including the 2030 Agenda for Sustainable Development.

### **AITC : Annual International Training Course**

was initiated in 1991 as a framework in providing short-term training for developing partners. Today, the AITC remains one of TICA's flagship programmes. It offers not only a training experience, but also a platform in exchanging ideas and establishing professional network among participants from across the developing world. Aiming at sharing Thailand's best practices and experience to the world, the AITC training courses focus on development topics of our expertise currently categorized under five themes namely; "**Sufficiency Economy Philosophy**" or **SEP**, **Food Security**, **Public Health**, **Climate Change**, and **Other topics related to Sustainable Development Goals (SDGs)**.

### **Faculty of Environment and Resources Studies Mahidol University**

Faculty of Environment and Resources Studies, Mahidol University was founded in 1978 as a successor of the environment education, research project and certainly reaches its aim for sustainable development. The faculty's vision is to be a renowned institution of Asia in cultivating sustainable nature and society and main mission is to develop teaching, research and academic service qualities, and to cultivate environmental ethics in order to reach sustainable environment and society.

### **AITC Theme : Climate Change**

This training course falls under the AITC theme – "Climate Change". We believed that Climate Change is one of the most serious and pressing global challenges with momentous consequences if left unattended. Therefore, strengthening resilience and adaptive capacity to climate-related hazards and natural disasters is crucial to sustainable future. The AITC courses under the theme "Climate Change" are part of Thailand's commitment to work with the international community to achieve SDG goal # 13 on Climate Action.

## Course Objectives

This training course examined the extent to which climate change impacts on human health, health studies, mostly in public health and epidemiology, using geographical information systems (GIS). At the end of this course, participants are expected to;

- Understand to basic knowledge of health and GIS and meaningful information about advanced technology for mapping, assessment, monitoring and management
- Be able to enhance further applications and information about current laws, regulations and policies of prevention, rapid surveillance systems and environmental management

## Course Methodology

Training methodologies to be used during this training course include;

- Lecture
- Workshop
- Field visit
- Mini-project

## Assignment and Evaluation

- In-class participation.
- Advance assignment - Submission and presentation of “Country Report” which include information regarding the current situation on climate change issues, country policy related to climate change planning, vulnerability, impact, adaptation and the best practices related to climate change in participant’s respective country.
- Attendance - Participants are required to attend all activities organized during the course. TICA reserves the rights to revoke its fellowship offered or take appropriate action in case a participant is in attendance of less than 90 percent of the training hours.

## Course Outline

This training course covers focuses on concepts and principles of geo-information technology and develops well-educated people who have basic knowledge concerning climate change impacts on health, GIS and control and environment management. The topics of training are such as;

- Overview of Geo-informatics
- Health applications and climate change impact using spatial analysis
- Lessons learned from land slide and ongoing challenges for disaster vulnerability assessment using LiDAR
- Risk and health impact from environmental disaster
- Geo-Informatics on environmental issues. The extreme weather events and health effects
- Potential impact of climate change on air pollution-related human health effects and adaptation
- Spatial temporal dynamics and risk zonation of vector-borne diseases in Thailand
- Extreme precipitation, health vulnerability and adaptation

## Participant Criteria

Candidates must possess qualifications as specified in “Guideline for Thailand’s Annual International Training Course Programme” No. 2 “Qualifications” as well as following qualifications;-

- Currently working more than two-year experience in relevant fields.
- Graduated to bachelor degree or higher degree in relevant fields.
- Less than 40 years old of age, in good health and be able to physically carry out field visits.
- Good command in English.

## Application

- Candidates must be nominated/ endorsed by their respective governments of the eligible countries/territories by the closing date for application.
- Complete nomination documents must be submitted to TICA through the Royal Thai Embassy/ Permanent Mission of Thailand to the United Nations/Royal Thai Consulate-General accredited to eligible countries/ territories.

(See “List of Eligible Countries” for more information)

## Number of Participants

20 persons

## Training Institution and Venue

Faculty of Environment and Resource Studies,  
Mahidol University,  
999 Phutthamonthon 4 Rd.,  
Salaya, Phutthamonthon,  
Nakhon Pathom, 73170 THAILAND.  
Website: [www.en.mahidol.ac.th](http://www.en.mahidol.ac.th)

## Selection and Confirmation

- Particular attention shall be paid to the candidates’ background, their current position, and practical use they expect to make of the knowledge and experience gained from training on the return to their positions.
- Selection of participants is also based on geographical distribution and gender balance.
- Successful applicants will be informed approximately 4 weeks before the beginning of training course.
- Successful applicants must return duly completed and signed acceptance form by the deadline to confirm their participation in the programme.

## Terms of Awards

**For AITC Eligible Countries** - AITC Training Fellowship\* include training fee, return economy-class, airfare, accommodation, allowance, insurance, airport transfer and social programme.

**For Non-AITC-Eligible Countries** - AITC Training Fellowship\* include training fee, accommodation, allowance, insurance, airport transfer and social programme.

\* Subject to rates and conditions established by TICA

## Contact

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For more information on qualifications, application forms, and application procedures, please visit our website at <http://www.tica.thaigov.net/main/en/information/73803-Annual-International-Training-Course.html>

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