#### No.34/36/2009-EO(F) Government of India Ministry of Personnel, P.G. and Pensions Department of Personnel & Training

North Block, New Delhi-1 Dated the 18 May 2009.

#### TRAINING CIRCULAR

Subject : A Group Training Course on Tsunami Disaster Mitigation to be held in Japan from 28/9/2009 to 18/9/2010 (Core Phase).

The undersigned is directed to state that the Japan International Cooperation Agency (JICA), under the Technical Cooperation Programme of the Government of Japan has invited applications for a Group Training Course on Tsunami Disaster Mitigation. The total duration of the programme is from August 2009 to October 2010, out of this, the Core Phase from 28/9/2009 to 18/9/2010, will be held in Japan. The Preliminary Phase and the Finalization Phase will be held in the candidate's home country. This programme is approved as a Master's Degree Program by the GRIPS and BRI. The details of the programme and the application form may be drawn from Ministry of Personnel, Public Grievances and Pensions website (persmin.nic.in).

2. The Program is designed for the organization concerning to earthquake and tsunami disaster mitigation. The overall goal of this training course is to mitigate tsunami disasters in developing countries.

3. The Candidates should be University Graduates in Seismology, Tsunami or their Disaster Mitigation, or be university graduates in Science and Technology other than the above mentioned subjects with professional experience of three or more years in the field of Seismology, Tsunami or their Disaster Mitigation; be well versed in advanced mathematics such as differentiation and integration, partial derivatives, differential equations, matrix, vector algebra, Fourier analysis, etc.; be able to write research reports on the individual study in English; have good command over English; be between twenty-two years and forty years of age; be in good health, both physically and mentally to undergo the training and not be serving in the military.

4. The fellowship award covers a Round-trip air ticket between an international airport designated by the JICA and Japan; travel insurance from arrival to departure in Japan; allowances for (accommodation, living expenses, outfit and shipping); expenses for JICA study tours and free medical care for participants who may fall ill after reaching Japan (costs related to pre-existing illness, pregnancy, or dental treatment are not included). The participants are not allowed to take any family member during the training course.

5. It is requested that the nomination of the suitable candidates may please be forwarded to this Department in accordance with the eligibility criteria and the terms and conditions of the JICA's Circular dated 11<sup>th</sup> May 2009. The Ministry/ State Governments may sponsor the names of only Government/ Public Sector Undertaking functionary.

6. The nomination details should be submitted in the JICA's prescribed proformas (A2A3 Forms), duly authenticated by the Department concerned alongwith the country report.

7. The applications should reach this Department <u>through proper channel</u> not later than 21<sup>st</sup> May 2009. Nominations received after the prescribed date will not be considered. The circular inviting applications for training courses is available on this Department's website persmin.nic.in

(Trishaljit Sethi) Director

- 1. The Secretary, Ministry of Earth Sciences, Mahasagar Bhavan, Block No. 12, CGO Complex, Lodhi Road, New Delhi.
- 2. The Secretary, Ministry of Science & Technology, Technology Bhavan, New Mehrauli Road, New Delhi.
- 3. The Secretary, Ministry of Home Affairs, North Block, New Delhi.
- 4. All State Governments/ Union Territories. [With the request to circulate it amongst the related organizations]
- 4. Director (Technical), NIC with the request to post the circular along with the JICA's circular and the enclosed application Proformas on the Department's website



Japan memanonal cooperation Agency (Government of Japan)

34/36

### No. 42/GT-CP/2009

11<sup>th</sup> May, 2009

Dear Mr. Kharb,

A Group Training Course Tsunami Disaster Mitigation will be held in Japan from 28<sup>th</sup> September, 2009 to 18<sup>th</sup> September, 2010 under the Technical Cooperation Programme of the Government of Japan.

We are forwarding herewith two copies of the General Information Booklet on the above offer. It is requested that the following documents of the selected candidate may please be submitted to this office by  $22^{nd}$  May, 2009:-

(1) The Nomination Form A2A3 together with the medical history questionnaire,

(2) The desired Inception Report

(3) The Application Materials for GRIPS/BRI Master Program

Further details are available in the General Information Booklet. It may be noted that the completed Inception Report and Application Materials for GRIPS/BRI Master Program are essential for screening of applications.

It is further informed that 15 slots are available globally for the above course and it /would be much appreciated if you could take further necessary action and submit the nomination(s) of suitable candidate(s) to this office by the designated date.

With regards,

Yours sincerely,

Asakuma Senior Representative

Encl: As stated above. Mr. R.K. Kharb Desk Officer Department of Personnel and Training Ministry of Personnel, Public Grievances and Pensions North Block New Delhi

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JICA India Office 2nd Floor, Dr. Gopal Das Bhawan 28, Barakhamba Road, New Delhi-110001



# TRAINING AND DIALOGUE PROGRAMS

# GENERAL INFORMATION ON TSUNAMI DISASTER MITIGATION 地域別研修「津波防災」

Approved as a master's degree program by GRIPS and BRI

JFY 2009 <Type: Solution Creation / 類型:課題解決促進型> No. J09-04199 / ID. 0984165 From August 2009 to October 2010 Phases in Japan: From September 28, 2009 to September 18, 2010

This information pertains to one of the Training and Dialogue Programs of the Japan International Cooperation Agency (JICA), which shall be implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

# I. Concept

Seismic and tsunami disasters, which instantly take human lives, destroy houses and devastate social properties, are clearly distinguished from other natural disasters. Fires and collapse of man-made structures caused by earthquakes and tsunamis may accelerate human losses, to say nothing of other aspects common to all natural disasters such as heavy economic losses, difficulty of preparedness and precautions due to unpredictability, and difficulty of immediate response to damages due to sudden occurrence. Tsunami disaster, however, can be mitigated by tsunami early warning utilizing the time difference between the earthquake occurrence and tsunami attack.

The 2004 Sumatra earthquake had caused giant tsunami. The tsunami damage was enormous and still now people are suffering from it on the Indian Ocean costal area. We need countermeasures against tsunami disasters to reduce their damages. The countermeasures have to be based on latest knowledge of earthquakes and tsunamis. The development of technologies in Seismology and Tsunamis has materialized seismic-proof living environments in developed countries such as Japan and the United States. In the meantime, the situation in developing countries has not changed, although efforts to transfer seismic- and tsunami-technologies from developed countries have been made. In order to mitigate tsunami disaster in developing countries, it is not enough to merely transfer knowledge and technologies of Seismology and Tsunamis from developed countries. It is, however, essential to develop earthquake and tsunami-related technologies applicable to each country by its own efforts, taking into consideration actual conditions and systems of the respective countries. To achieve this aim, it is also necessary to nurture human resources to be highly capable of planning, instructing, and extending tsunami disaster mitigation technologies, by combining advanced relevant technologies with administrative capability to utilize and disseminate those technologies.

This Training Course, implemented with collaboration of the Building Research Institute (BRI), aims to foster persons to have high capabilities to plan, teach, and extend technologies related to tsunami disaster mitigation, through the training not only in the fields of Tsunamis, but also in the field of Tsunami Disaster Mitigation Policies.

<u>The curriculum of this course is approved as a master's degree program by National Graduate</u> <u>Institute for Policy Studies (GRIPS) and BRI.</u> Acquiring required credits during the training, the participants will be awarded a Master's degree, "Master of Disaster Mitigation" by GRIPS and BRI. Accordingly this training is very demanding. <u>Applicants, with an excellent demonstrable</u> <u>educational and professional background, should be highly motivated and confident enough to</u> <u>pursue and attain the requirement of the program so that they can obtain the degree.</u> The Overall Goal is to mitigate tsunami disasters in developing countries (e.g., mitigation of tsunami disasters through dissemination and transfer of technologies and knowledge of tsunamis).

# <u>Remark:</u>

This program is supported by UNESCO in the framework of its program on disaster reduction.

# **II.** Description

# 1. Title (J-No.): Tsunami Disaster Mitigation (J09-04199)

### 2. Period of program:

Duration of whole program :

(1) Preliminary Phase:	August 2009 to September 2009
(in a participant's home country)	

- (2) Core Phase in Japan:

September 28, 2009 to September 18, 2010 September 2010 to October 2010

(3) Finalization Phase:

(in a participant's home country)

August 2009 to October 2010

## 3. Target Regions or Countries: 7 countries

Cook Islands, Fiji, India, Indonesia, Malaysia, Peru and Vanuatu

### 4. Eligible / Target Organization:

This program is designed for the organization concerning to earthquake and tsunami disaster mitigation.

### 5. Total Number of Participants:

7 participants

6. Language to be used in this program: English

### 7. Program Objective:

Nurture of personnel who have acquired advanced technologies and knowledge in the fields of tsunami and are able to establish, utilize and disseminate tsunami disaster mitigation technologies applicable to their respective countries and/or regions under consideration of their actual conditions, regulations and institutions

### 8. Overall Goal:

Tsunami disaster in developing countries will be reduced.

### 9. Outputs:

Participants are expected to achieve the following outputs;

- (1) To understand fundamental theories of seismology and tsunami.
- (2) To acquire applied techniques of seismology and tsunami.
- (3) To acquire techniques and knowledge for tsunami disaster mitigation.

- (4) To understand policies for tsunami disaster mitigation.
- (5) To improve participants' capacities to apply techniques and knowledge learnt in lectures and practices through their studies on individual topics, and to make action plans in order to solve problems in their respective countries.

#### **10. Expected Module Output and Contents:**

This program consists of the following components. Details on each component are given below;

## (1) Preliminary Phase in a participant's home country;

(August 2009 to September 2009)

Participating organizations make required preparation for the Program in the respective countries.

Outputs	Activities
Inception report is	Formulation and submission of Inception Report.
formulated.	

(2) Core Phase	in Japan;		
(September 28,	2009 to Septem	ıber 18, 2010)	
Participants dispat	ched by the organ	izations attend the Program implemented in .	Japan.
Outputs	Subjects/Agend Category Orientation	as Tsunami group (T group) Overview of Earthquake and Disasters	Methodology Lecture
To understand fundamental theories of seismology and tsunami	Basic Subjects Related with Earthquake and Disasters	Information Technology related with Earthquake and Disasters         -Computer         -Theory of Seismic Waves         -Surface Waves         -Scattering and Attenuation         Earthquake Phenomenology         -Practice on Theory of Seismic         Waves         -Local Earthquake Analysis         -Analysis of Teleseismic Records         -Earthquake Focal Mechanism         -Seismicity and Statistics         -Crust and Upper Mantle Structure         -Seismic Tomography	Lecture, Practice and Seminar
To acquire applied techniques of	Advanced Subjects Related with Earthquake	Seminar of Basic Seismology Earthquake Circumstance -Overview for Earthquake Prediction Research (1) &(2)	Lecture, Practice and Seminar

seismology and	and Disasters	-Mathematics for Seismology	
tsunami		-Crustal deformation	
		-Earthquake and Plate Tectonics	
		-Earthquake Source Process	
		Durinquike Source Process	
		Theory of Tsunami	
		-Tsunami Simulation	
		-Data Processing	
		-Practice for Theory of Tsunami	
		-Tsunami Magnitude and Catalogue	
		-Mathematics for Tsunami	
		-Hydrodynamics for Tsunami	
		-Tsunami Generation and	
		Propagation	
		-Tsunami Source	
		-Theory of Tsunami	
		-Propagation and Inundation	
		Simulation	
	Tsunami	Tsunami Hazard Assessment	Lecture,
	Hazard and Risk	-Tsunami Hazard Map	Practice and Seminar
	Assessment	-Tsunami Disaster Prevention	Seminar
		Administration	
		-Education of Tsunami Disaster	
		Reduction and International	
		Tsunami Warning	
		-Tsunami Disaster Mitigation Policy	
To operation		and Risk Management in Japan	
To acquire		-Introduction of Tsunami Disaster	
techniques and		Mitigation	
knowledge for		-Tsunami Hazard Assessment	
tsunami disaster		-Tsunami Damage Survey	
mitigation.		-Geology for Tsunami	
		-Scenario Earthquakes	
		Tsunami Countermeasures	
		-Tsunami Protection Facility	
		-Tsunami Observation	
		-Tsunami Early Warning System and	
		Dissemination	
		-Practice for Tsunami	

		Countermeasure	
		-Tsunami Force and Tsunami	
	E a stila seconda a	Resistant Structure	Lastana
	Earthquake Disaster Mitigation Policy	Seismic Disaster Mitigation Policy -Social System against Disasters -Education on Basic Knowledge for Disasters -Policy for Infrastructure -Policy Making Process for Disaster Disaster Risk Management - International activities for disaster mitigation -Community based disaster risk management -Practical risk assessment Dissemination for Earthquake Disaster Mitigation -Japanese ODA Policy and	Lecture, Practice and Seminar
To understand		Development Support Related with	
policies for		Disaster Mitigation	
tsunami disaster		-Observation visit for Dissemination	
mitigation.		for Earthquake Disaster Mitigation	
C		-Project Cycle Management for	
		Disaster Mitigation	
		Seminar of Earthquake Disaster	
		Mitigation Policy	T (
	Case Studies	Practice of Earthquake Disaster Mitigation Policy	Lecture, Practice,
		-Colloquium	Seminar and
		-Observatory Practice	Presentation
		-Earthquake Information	
		-Practice for Seminar of Earthquake	
		Disaster mitigation	
		-Study Trips	
To improve	Individual	Menu for the topics of Individual	Practice,
participants'	Study	Study Turner Simulation	Seminar and Presentation
capacities to		-Tsunami Simulation	1 resentation
apply techniques		-Tsunami Source -Tsunami Hazard Assessment	
and knowledge			
learnt in lectures		-Studies Related with Tsunami Early	
and practices		Warning System	
through their		-Source Parameter Determination	
studies on		for Tsunami Early Warning System	
individual topics,			1

and to make		
action plans in		
order to solve		
problems in their		
respective		
countries.		

# (3) Finalization Phase in a participant's home country;

(September 2010 to October 2010)

Participating organizations produce final outputs by making use of results brought back by participants. This phase marks the end of the Program.

Outputs	Activities
To implement an	After completing the program at BRI, each participant is
Final Report.	required to write and submit a Final Report to JICA/BRI.

Course Objective	,Nurture of personnel who have utilize and disseminate tsunami d		acquired advanced technologies and knowledge in the fields of tsunami and are able to establish isaster mitigation technologies applicable to their respective	e in the fields of tsunami a cheir respective	nd are able to establish
Course Outputs	Understanding fundamental theories of seismology and tsunami through lectures and practices.	Acquiring applied techniques of seismology and tsunami through lectures and practices.	Acquiring techniques and knowledge for tsunami disaster mitigation through lectures and practices.	Understanding policies for tsunami disaster mitigation through lectures and practices.	Improving participants' capacities to apply techniques and knowledge learnt in lectures and practices through their studies on individual topics. Action plans to solve problems in their respective countries.
The way of checking the outputs	Confirming participant's understanding level of technique and knowledge on lectures and practices by examinations, reports and discussions among participants.	Confirming participant's understanding level of technique and knowledge on lectures and practices by examinations, reports and discussions among participants.	Confirming participant's understanding level of technique and knowledge on lectures and practices by examinations, reports and discussions among participants.	Confirming participant's understanding level of technique and knowledge on lectures and practices by examinations, reports and discussions among participants.	Confirming participant's understanding level by evaluating their reports and presentations, and contents of their Action Plans.

<u>Outline of the group training course "Tsunami Disaster Mitigation"</u> The first plan

The way of Checking the achievement level of the course objective through checking <u>and discussions among participants. lecturers and researchers</u> the course objective

# **III.** Conditions and Procedures for Application

## 1. Expectations for the Participating Organizations

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Participating organizations are expected to use the project for those specific purposes.
- (2) This program is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the project to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.
- (3) As this program is designed to facilitate organizations to come up with concrete solutions for their issues, participating organizations are expected to make due preparation before dispatching their participants to Japan by carrying out the activities of the Preliminary Phase described in section II-10.
- (4) Participating organizations are also expected to make the best use of the results achieved by their participants in Japan by carrying out the activities of the Developing Phase (Finalization Phase) described in section II-10.

### 2. Nominee Qualifications

Applying Organizations are expected to select nominees who meet the following qualifications.

- be university graduates in Seismology, Tsunami or Their Disaster Mitigation, or be university graduates in Science and Technology other than the above mentioned subjects with professional experience of three or more years in the field of Seismology, Tsunami or Their Disaster Mitigation.
- 2) <u>be well versed in advanced mathematics</u> such as differentiation and integration, partial derivatives, differential equations, matrix, vector algebra, Fourier analysis, etc.
- 3) be able to write research reports on the individual study in English.
- 4) have a good command of English --- minimum TOEFL score; 79 (Internet Based Test), 213 (Computer Based Test) or 550 (Paper Based Test), or equivalent.
  \* Applicants with these scores normally can give and understand detailed directives or instruction with technical terms.
- 5) be between the ages of twenty-two(22) and forty(40) years.
- 6) Must be in good health, both physically and mentally, to participate in the Program in Japan.
- 7) Must not be serving any form of military service.

### 3. Required Documents for Application

(1) Application Form: One (1) original and three (3) copies

### (2) Application Materials for GRIPS\*/BRI\*\* Master Program (See ANNEX I )

A part of Curriculum of this course is approved as a master's degree program by GRIPS and BRI. Therefore, each applicant is required to prepare and submit all of the following materials for admission to GRIPS/BRI Master Program as written in ANNEX I.

- Application Form
- Certificate of Health
- Certificate of Employment
- Two letters of Recommendation
- Official Transcripts or Official Copy of Transcripts
- Official Copy of Diploma or Degree Certificate
- Official Document Certifying English Proficiency

\*GRIPS -National Graduate Institute for Policy Studies \*\*BRI –Building Research Institute

#### (3) Inception Report (See ANNEX II)

Each applicant is required to originally write and prepare a <u>typewritten</u> Inception Report by him/herself in accordance with the Instruction for the Preparation of Inception Report (see ANNEX II).

The Inception Reports are used for screening applicants and for presentation. Each participant is required to make a 20-25 minutes presentation on Inception Report within about two weeks after the training begins. It is mandatory to bring these materials in digital forms.

Note: Applications without any of required documents will be out of the selections.

### 4. Procedure for Application and Selection:

(1) Submitting the Application Documents:

Closing date for application to the JICA Center in JAPAN: <u>May 22, 2009</u> <u>Note: Please confirm the closing date set by the respective country's JICA office</u> <u>or Embassy of Japan of your country to meet the final date in Japan.</u>

#### (2) Selection

- After receiving the document(s) through due administrative procedures in the respective government, the respective country's JICA office (or Japanese Embassy) shall conduct screenings, and send the documents to the JICA Center in charge in Japan, which organizes this project.
- The JICA Center in charge in Japan will carry out the screening jointly with BRI by the end of May and decide the passed applicants out of those who fulfill the set qualifications described above in III.2.
- A committee, which consists of GRIPS and BRI, will screen the above qualified applicants academically with the Application materials such as Official Transcripts by <u>the end of June</u>.

 The applicants who are accepted to participate in this program will be decided by a faculty council of GRIPS finally by <u>the middle of July</u> (This schedule cannot be delayed).

In case the number of applicants is more than the capacity of this course, some applicants may not be accepted due to the limited number of seats even though they fulfill the requirements.

#### (3) Notice of Acceptance

Notification of results shall be made by the respective country's JICA office (or Embassy of Japan) to the respective Government by **not later than <u>July 31, 2009</u>**. In case of acceptance, Acceptance Agreement from GRIPS will be informed together.

#### 5. Conditions for Attendance

- (1) to observe the schedule of the program,
- (2) not to change the program subjects or extend the period of stay in Japan,
- (3) not to bring any members of their family,
- (4) to return to their home countries at the end of the program in Japan according to the travel schedule designated by JICA,
- (5) to refrain from engaging in political activities, or any form of employment for profit or gain,
- (6) to observe the rules and regulations of their place of accommodation and not to change the accommodation designated by JICA, and
- (7) to participate the whole program including a preparatory phase prior to the program in Japan. Applying organizations, after receiving notice of acceptance for their nominees, are expected to carry out the actions described in section -9 and section -4.

#### 6. Certificate, Diploma and Master's Degree

- (1) Participants who have successfully completed the course will be awarded a certificate by JICA.
- (2) Participants, who have successfully fulfilled requirements given by International Institute of Seismology and Earthquake Engineering (IISEE), will be awarded another certificate and a diploma by IISEE.
- (3) Participants, who have successfully achieved required credits, will be awarded a Master's Degree, 'Master of Disaster Mitigation', by GRIPS and BRI.

# IV. Administrative Arrangements

### 1. Organizer:

(1) Name: JICA Tsukuba

## 2. Implementing Partner:

- (1) International Institute of Seismology and Earthquake Engineering (IISEE) at Building Research Institute(BRI)
  - 1) URL: http://iisee.kenken.go.jp
  - 2) Address: 1 Tachihara, Tsukuba, Ibaraki 305-0802, Japan
  - 3) TEL: +81-29-879-0679
  - 4) FAX: +81-29-864-6777
  - 5) E-mail: iisee@kenken.go.jp
  - 6) Remark: IISEE is an organization that trains participants from earthquake-prone developing countries on Seismology and Earthquake Engineering. In 1962, the BRI established the IISEE as an institute exclusive for training in the field of seismology and earthquake engineering.

### (2) National Graduate Institute for Policy Studies (GRIPS)

- 1) URL: http://www.grips.ac.jp/
- 2) Address: 7-22-1 Roppongi, Minato-ku, Tokyo, 106-8677 Japan
- 3) TEL: +81-3-6439-6046
- 4) FAX: +81-3-6439-6050
- 5) E-mail: admissions@grips.ac.jp
- 6) Remark: The National Graduate Institute for Policy Studies (GRIPS) is a graduate school and research institute. GRIPS was established in October 1997. GRIPS aims to be an international center of excellence for the education of future leaders in the policy arena, for the advancement of policy research, and for the systematic collection and dissemination of policy-related information.

# 3. Travel to Japan:

(1) Air Ticket:

The cost of a round-trip ticket between an international airport designated by JICA and Japan will be borne by JICA.

(2) Travel Insurance:

Term of Insurance: From arrival to departure in Japan.

#### 4. Accommodation in Japan:

JICA will arrange the following accommodations for the participants in Japan:

JICA Tsukuba International Center (JICA TSUKUBA)

Address: 3-6 Koyadai, Tsukuba, Ibaraki 305-0074, Japan

TEL: +81-29-838-1111, FAX: +81-29-838-1790

(where "81" is the country code for Japan, and "29" is the local area code)

If there is no vacancy at JICA TSUKUBA, JICA will arrange alternative accommodations for the participants.

### 5. Expenses:

The following expenses will be provided for the participants by JICA:

- (1) Allowances for accommodation, living expenses, outfit, and shipping
- (2) Expenses for study tours (basically in the form of train tickets).
- (3) Free medical care for participants who become ill after arriving in Japan (costs related to pre-existing illness, pregnancy, or dental treatment are not included)
- (4) Expenses for program implementation, including materials

For more details, please see p. 9-16 of the brochure for participants titled "KENSHU-IN GUIDE BOOK," which will be given to the selected participants before (or at the time of) the pre-departure orientation.

### 6. Training Course and Master's Degree Program

The curriculum of this training course is approved as a master's degree program by GRIPS and BRI. <u>The entrance examination fee, admission fee and tuition for the Master's</u> <u>Degree Program will be provided by BRI.</u>

### 7. Pre-departure Orientation:

A pre-departure orientation will be held at the respective country's JICA office (or Japanese Embassy), to provide participants with details on travel to Japan, conditions of the workshop, and other matters.

# V. Other Information

#### 1. Computer:

The participants are recommended to bring own laptop/notebook computers to prepare the Action Plan, presentation slides and to communicate by e-mail.

#### 2. Relevant Data for Tsunami Disaster in your country:

The participants are recommended to bring the relevant data in your country on your laptop/notebook computers for preparing the Action Plan, presentation slides etc.

END

ANNEX-I: Application Materials for GRIPS/BRI Master Program ANNEX-II: Instruction for the Preparation of Inception Report ANNEX-III: Syllabus of the Training Program (Tentative)

### For Your Reference

#### **JICA and Capacity Development**

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that "capacity development" is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, training programs, JOCV programs, etc.

Within this wide range of programs, Training Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs and are being customized to address the specific needs of different target organizations, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

#### Japanese Development Experience

Japan was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the "*adopt and adapt*" concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this "*adoption and adaptation*" process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan's developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of "tacit knowledge," a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



# CORRESPONDENCE

For enquiries and further information, please contact the JICA office or the Embassy of Japan. Further, address correspondence to:

JICA Tsukuba International Center (JICA TSUKUBA) Address: 3-6 Koyadai, Tsukuba, Ibaraki 305-0074, Japan TEL: +81-29-838-1111 FAX: +81-29-838-1790

# ANNEX I : Application Materials for GRIPS/BRI Master Program

Instructions: Please read this information carefully before completing application materials for the GRIPS/BRI program.

Any false or misleading statement or incomplete or inaccurate application may be the basis for denial of screening for admission or, if admitted, dismissal from the School. All questions must be answered, and the application form must be signed and dated. You must notify the School of any changes of status in any part of your application that may occur after the date of the signature on the application form and write an explanation required thereby within 30 days of the status change. All materials submitted by an applicant become the property of GRIPS and will not be returned.

**Documents to be submitted:** Applicants are requested to submit the following documents (preferably in one complete set so as to avoid delays in further evaluation):

#### Step1: Prepare the following supporting documents:

Please check I whether you have submitted all the necessary documents

- $\Box$  completed application form
- $\Box$  certificate of health
- 2 identical photographs (30 x 40 mm) (please paste one photograph on the application form)
- □ 2 letters of recommendation in sealed envelopes
- □ official certificate of employment describing applicant's <u>present</u> job title and employer. Information on civil servant qualification (e.g. BCS, IAS, IRS, CSS) should be also included there, if applicable. (The certificate of employment must bear official seal and sign obtained from the employer )
- □ official transcripts or official copies of transcripts from all undergraduate and postgraduate institutions previously attended\*
- official copy of diploma or degree certificate from all undergraduate and graduate institutions previously attended\*

TOEFL/IELTS score report, or other official document certifying English proficiency of those applicants whose undergraduate education was in a language other than English (GRIPS TOEFL code no. 9040). Native speakers of English are exempted from this requirement. Those who received (under) graduate education in English should submit an official document confirming that the language of instruction was English.

#### Notes

- 1. \*Letters of recommendation must be submitted in sealed envelopes, signed across the seal. Recommendations should be written by people who have supervised the applicant either in an academic or work capacity. Preferably, one letter should be written by a university professor and the other should be written by a senior member of the applicant's present work place.
- 2. \*An official copy means a certified true copy of the original document with an official seal obtained from the administration office of the university attended. A true copy of the original document certified by a notary public may also be accepted. Copies attested by organizations/persons not having notary/legal functions will not be accepted or considered for screening.
- 3. All documents must be presented in English. Translations in English without an official seal obtained from the administration office of the university attended or without a signature of the recommender or the drawer of the document are not acceptable.
- 4. Faxed documents and digital copies sent through e-mail are not acceptable.

#### INQUIRIES

Details regarding to the graduate program may be obtained at the following websites: <u>http://www.grips.ac.jp</u> <u>http://iisee.kenken.go.jp</u>

# Disaster Management Policy Program by GRIPS and BRI In Co-operation with JICA, Japan Photographs

Application Form	Please write your name on the back of
(Type or write in block letters)	each photo
PERSONAL DATA	Size:30 x 40 mm
1. Full Nameas written in your passport.	
Name to be used in correspondence, if different from above.	
2. Date and Country of Birth 3. Age (as of October 1 <sup>st</sup> 2009) MM/DD/YY country	)
4. Gender: male female 5. Marital Status: single	married
6. Citizenship (as written in your passport)	
7. Present Employer Does your organization belong to a central or regional authority?	regional
8. Present Position	
9. Work Address	
tel: fax email country code city code local number country code city code local number	
10. Home Address	
tel: fax email	
country code city code     local number       country code city code     local number	
11. Present Mailing Address: home   work   other, namely:	
tel: fax email email	

#### **APPLICATION INFORMATION**

12. List names and locations of educational institutions attended, with dates of attendance and degrees attained or expected. Please attach academic transcripts from all colleges and universities listed.

Elementary Education – Secondary Education	Dates (from-to)	Period of Schooling
(before higher education)		years
		months

Higher Education	Institution and Location	Dates (from–to) Month Year	Period of Schooling	Degree	Major
Undergraduate level			years		
			months		
Graduate level			years months		
Total years of s (including eler	schooling mentary and secondary educatio	n)	years months		

13. [Optional] Undergraduate GPA \_\_\_\_\_\_ out of maximum GPA scale of (e.g. 4.0) \_\_\_\_\_\_, if available Please see appendix for GPA calculation procedure

14. [Optional] Graduate GPA \_\_\_\_\_\_ out of maximum GPA scale of \_\_\_\_\_\_, if available

15. [Optional] Undergraduate Class obtained or Passed Division \_\_\_\_\_\_, if available

16. [Optional] Graduate Class obtained or Passed Division \_\_\_\_\_\_, if available

17. Honors and Awards received:

18. TOEFL/IELTS scores or any other qualifications to show English proficiency:

TOEFL:		IELTS:	
score	date	score	date
	duata advantian instructed in	English (please submit certificate)	

All applicants must submit either TOEFL/IELTS score report or an official document with the attestation from the university confirming that undergraduate/graduate education was instructed in English.

19. List below two persons familiar with your past academic or professional activity whom you have requested letters of recommendation.

name

name

position and affiliation

2. \_\_\_\_\_

1.

position and affiliation

20. List all previous employment, starting with your current employment (please make sure to submit an official certificate of employment from the present employer)

Employer and Location	Dates (to-from)	Job Title and Description

21. Summarize your present duties and responsibilities (applicants, who are still studying but will have graduated by October, should describe their future career plans). Applicants with specific civil servant qualification and ranking (e.g. BCS, IAS, IRS, CSS) are also requested to provide the respective information. Please use only this space and pay special attention to completing this section, as it is often the principal source of information for evaluating the relevance of the program to the applicants' assignment, as well as the relative merits of each applicant.



22. Are there any other factors that you would like to have the admissions committee consider in evaluating your application (e.g. personal background, leadership role)?

#### **CERTIFICATION**

I certify that to the best of my knowledge all information given above is correct and complete, and I understand that any omission or misinformation may invalidate my admission or result in dismissal.

Signature of applicant

date

You need to submit this completed application form together with the supporting documents listed on page 1. Please use the check list to make sure that you have collected all the supporting documents.

# Disaster Management Policy Program by GRIPS and BRI In Co-operation with JICA, Japan

# **CERTIFICATE OF EMPLOYMENT**

EMPLOYER DETAILS		
Name of Organization:		
Address of Organization:	,	
	faxemail	
country code city code local number	country code city code local number	
EMPLOYEE DETAILS		
	to	
	MM/DD/YY MM/DD/YY	
Present position, rank, responsibilities, etc.:		
ful has been employed by this organization from	MM/DD/YY MM/DD/YY	

#### LEAVE OF ABSENCE APPROVAL SECTION

I will approve one year of Leave of Absence for the above employee to participate in the Disaster Management Policy program, if he/she is admitted to GRIPS and BRI.

Name of person completing the form Position/Title: Signature Date
Signature Date
Signature   Date

\*Please put Official Stamp or Seal on this space.

T

# Disaster Management Policy Program by GRIPS and BRI In Co-operation with JICA, Japan

	LETTER OF RECOMMENDATION						
то	THE APPLICANT:	Complete this section. Give this	form to the person wl	nom you have asked t	o recommend you.		
App	olicant's Name						
	as w	vritten in your passport					
Rec	ommender's Name						
seal	ed envelope to the applica	<b>ER:</b> Please enclose the complet int. If you prefer, you may write for the applications screening pr	a separate letter and				
1.	How long have you	known the applicant?	years	months			
2.	In what capacity ha	we you known the application	int?				
3.	How often have yo	u seen him/her?					
	□ daily	□ weekly	$\Box$ monthly		rarely		
4.		other students/staff in the administrative ability?	e same field who	n you have know	n, how would you	rate the applicant's	
	<ul> <li>Truly Exceptional (one of the best you have known)</li> <li>Outstanding (highest 5%)</li> <li>Excellent (next highest 5%)</li> </ul>						
	<ul> <li>Good (strong ability, but not in top 10%)</li> <li>Average (upper 50%)</li> <li>Below Average (lower 50%, but recommended)</li> <li>Not Recommended</li> </ul>						
5.	Please evaluate as a	excellent, average or poor					
	Academic Perform Intellectual Potenti Creativity & Origir	al	excellent	average	poor		
	Motivation for Gra						
6.	<ul><li>(For university professors and instructors only)</li><li>Is the academic record indicative of the applicant's intellectual ability? If no, please explain.</li></ul>						

7. Discuss the applicant's competence in his/her field of study, as well as the applicant's career possibilities as a professional worker, researcher or educator. In describing such attributes as motivation, intellect, and maturity, please discuss both strong and weak points. Specific examples are more useful than generalizations.

8.	Discuss the applicant's character and personality. Please comment on his/her social skills, emotional stability, leadership skills and reliability.						
9.	Additional comments	s, if any.					
10.	How would you eval GRIPS and BRI ?	How would you evaluate the applicant's overall suitability as a candidate for admission to the Graduate Program of GRIPS and BRI ?					
_	outstanding	🗌 good	average	poor			
	Name of person com	pleting this form					
	Position/title						
	Organization						
	Address						
	phone	fax		email			
	Signature			date			

# Disaster Management Policy Program by GRIPS and BRI In Co-operation with JICA, Japan

		Lett	ER OF RECOM	MENDATIO	<u>N</u>	
то	THE APPLICAN	Complete this section. Give th	is form to the person wh	om you have asked	to recommend you.	
Арр	blicant's Name	as written in your passport				
Rec	ommender's Name					
seal	ed envelope to the app	NDER: Please enclose the comp licant. If you prefer, you may wr sed for the applications screening	ite a separate letter and a			
1.	How long have y	you known the applicant?	years	months		
2.	In what capacity	have you known the appli	icant?			
3.	How often have	you seen him/her?				
	□ daily	□ weekly	$\Box$ monthly		] rarely	
4.		with other students/staff in the or administrative ability?		n you have knov	vn, how would you	rate the applicant's
	<ul> <li>Outstanding</li> <li>Excellent (n</li> <li>Good (stron</li> <li>Average (up)</li> </ul>	rage (lower 50%, but recor	%)			
5.	Please evaluate a Academic Perfor Intellectual Pote Creativity & Ori Motivation for C	ntial ginality	or: excellent	average	poor □ □ □ □ □	
6.		professors and instructors of record indicative of the ap		ability? If no, p	lease explain.	

7. Discuss the applicant's competence in his/her field of study, as well as the applicant's career possibilities as a professional worker, researcher or educator. In describing such attributes as motivation, intellect, and maturity, please discuss both strong and weak points. Specific examples are more useful than generalizations.

8.	Discuss the applicant's character and personality. Please comment on his/her social skills, emotional stability, leadership skills and reliability.						
9.	Additional comment	s, if any.					
10.	How would you eval GRIPS and BRI ?	How would you evaluate the applicant's overall suitability as a candidate for admission to the Graduate Program o GRIPS and BRI ?					
	outstanding	🗌 good	average	poor			
	Name of person com	pleting this form					
	Position/title						
	Organization						
	Address						
	phone	fax		email			
	Signature			date			

# **<u>CERTIFICATE OF HEALTH</u>** (to be completed by the examining physician) Please fill out (PRINT/TYPE) in English. <u>Do not leave any items blank.</u>

		$\Box Male Da  \Box Female Ag$	te of Birth :	<u> </u>
Name :,,			<u>.                                    </u>	
Family name, First name	Middle name			
<ol> <li>Physical Examinations         <ol> <li>(1) Heightcm, Weight</li> <li>(2) Blood pressuremm/Hg ~r Pulse Rate/min, □ regula</li> <li>(3) Eyesight : (R) (L) without glasses</li> <li>(4) Hearing : □ normal □ impaired specific</li> </ol> </li> </ol>	nm/Hg, Blood Type [ ar □ irregular <u>(R)</u> with glasses or contac	(L) . t lenses	-, —]	
2. Please describe the results of physical and X-ray certification is NOT valid).			-	an 6 months prior to the
Lung : $\Box$ normal $\Box$ impaired $\underline{\Box}$	Date	., <u>Film No.</u>	<u>.</u>	
	escribe the condition of a	e e		
Cardiomegaly : □ normal □ impair If impaired: Electroca	ired ardiograph, □ normal	□ impaired		
3. Disease Treated at Present □ Yes (Disease:			) □	No
<ul> <li>4. Past history : Please indicate with + or - and find the ruberculosis□(), Malaria□</li> <li>Epilepsy□(), Kidney Dise Diabetes□(), Drug Allerg Functional Disorder in extremities□()</li> </ul>	$\Box( ), \qquad Ot \\ ease\Box( ), He \\ gy\Box( ), Ps \\ gy\Box( ), Ps \\ gy\Box($	her communicable eart Diseases…□( ychosis □( .	e disease □( . ) . ),	. )
5. Laboratory tests Urinalysis : glucose ( ), protein ( Feces : Parasite (egg of parasite) (+, -) ESR :mm/Hr, WBC count : Hemoglobin:g/dl, AST (GO	$x10^{3}/\mu l$ , RBC :	x10 <sup>6</sup> /µ		
6. Please describe your impression.				
<ul><li>7. In view of the applicant's history and the above f Japan ?</li><li>yes □ no □</li></ul>	indings, is it your observa	ation his/her health	1 status is adequate	e to pursue studies in
Date: Signature:				<u>.</u>
Physician's Name in Print:				<u>.</u>
Office/Institution:				-
A 11				

# How to calculate your GPA

If GPA is not indicated on your transcript, take the value of the grade earned and multiply by the number of credits earned for each course. Add "total value" and divide by the "total number of credits" earned to get GPA.

#### Example:

grade	value		# of credits		total value
А	4.0	х	3	=	12.00
B-	2.7	х	4	=	10.80
A-	3.7	х	3	=	11.10
C+	2.3	х	3	=	6.90
total			13	/	40.80
GPA				=	3.14

Value of Letter Grades				
А	4.0			
A-	3.7			
B+	3.3			
В	3.0			
B-	2.7			
C+	2.3			
С	2.0			
C-	1.7			
D+	1.3			
D	1.0			
D-	0.7			
F	0.0			

# **ANNEX II:** Instructions for the Preparation of Inception Report

The Inception Report should be originally written by the applicant herself/himself and typewritten including items listed below. Applicants are requested to follow strictly the technical instruction shown in the next page of this General Information. It is requested to record the Inception Report on FD or CD and bring it to Japan.

Topics of Inception Report to be included are,

- 1. Tsunamis, earthquakes, and tsunami mitigation in your country
- 1.1. Geographic and geoscientific information with maps (tectonics, seismicity, tsunamigenic earthquakes, etc.)
- 1.2. Destructive tsunamis and earthquakes
  - (tsunami damage, tsunami height, casualties, tsunami catalogs, photographs, etc.)
- 1.3. Tsunami mitigation (tsunami hazard assessment, tsunami awareness activities, etc.)
- 1.4. Tsunami countermeasures (tsunami early warning system, tsunami observation system, etc.)

## 2. Regarding your organization

- 2.1. Role in the national government or country
- 2.2. Internal structure along with the organization chart
- 2.3. Equipment and systems (tsunami early warning system, tsunami observation system, etc.)
- 2.4. Analysis of tsunamis (tsunami modeling, tsunami forecasting, tsunami hazard maps, real-time determination of earthquake parameters, etc.)
- 2.5. Analysis of your organization's and country's capacity (strengths and weaknesses) (Tsunami disaster mitigation plan, responsible organization, tsunami hazard maps, tsunami early warning system, etc.)
- 2.6. Other organizations collaborating with yours for tsunami activities

## 3. Your responsibilities and interests

- 3.1. Your own responsibility in your organization
- 3.2. The potential target of your study in the course, the difficulties or obstacles in obtaining your target, and a list of your strengths and weaknesses.
- 3.3. Your expectations of the course: What do you expect to derive from it?
- 3.4. <u>A concrete plan of individual study</u>. Please select the topics of individual study from "II. Description, 9.Expected Module Output and Contents".

The cover page of Inception Report should include:

### (1) Name of Applicant,

(2) Name of Organization to which Applicant belongs, namely, the affiliation,

The first page of Inception Report should include:

- (3) Title and Author's Name,
- (4) Abstract,

The abstract should be informative and include the principal findings and conclusions. References to formulas or figures are not necessary. It should not be consist of more than 200 words.

- (5) Introduction,
- (6) Affiliation of the Author.

(Affiliation should appear as a foot note on the first page as following sample shows.)

The main part of Inception Report that starts from the second page should include:

- (7) Topic mentioned above,
- (8) "Acknowledgement" and "Appendix" after the topic if necessary.
- (9) References,

Applicants are requested to submit attached documents including 3 items,

#### (10) Attached Document

- Information about the structure of Organization, for example, Organization Chart,
- Research activity of Organization related to Seismology, Tsunami, or Their Hazard/Risk Analysis, and,
- A list of governmental or private organizations related to Seismology or Tsunami in the country of Applicant.

#### (11) Format

- **1.** The manuscript must be carefully prepared and should be submitted with A2A3 form and GRIPS application materials. The total pages of the Country Report should not exceed 15 pages including tables and figures.
- 2. Page Format: Use A4 white paper sheets (21 cm x 29.7 cm). Leave 2.5 cm margins at the top, right and left sides of the text and 3.5cm margin at the bottom. Special attention has to be paid in preparing papers using US letter-size paper. It should be appropriately arranged so that it conforms to the above requirements in appearance, namely the manuscript should occupy 16cm x 23.7cm in each page. All main text should be single spaced, Times New-Roman types. Use 18pt in capital letters and boldface for TITLE, 12pt for authors, and 11pt for the rest, including affiliations, abstract, main text, headings, sub-headings, sub-subheadings, acknowledgement, appendix, references, and captions for figures, photos and tables.
- **3.** Organization of the papers: Write the TITLE of your paper, centered and in 18pt capital letters and boldface types at the top of the first page. After two more line space, write your names in 12pt. Last names should be in capital. Affiliations should be cited by superscripts. Leave two lines, and then write abstract in 11pt. "ABSTRACT" should be in capital letters and boldface and be followed by the text of Abstract. After three lines, start main body of your paper in 11pt. The ordinary pages, starting from the second page, contain the main text from the top line. Avoid footnotes and remarks. Explain in the main text, or in Appendices, if necessary. Affiliation itself should be put at the bottom of the first page, cities, countries and e-mail addresses of all authors, as indicated above.
- 4. HEADINGS: Use at most three levels of headings, i.e., headings, subheadings and sub-subheadings. Headings shall be written in capital letters, boldface types, and centered of your text. Leave two lines space before headings and one after them. Do not indent the first line after headings, subheadings and sub-subheadings. First lines of the other text paragraphs should be indented as indicated here. Do not leave blank lines between paragraphs. Subheadings: Subheadings shall be written in lower-case letters and boldface types, right against the left side of your text, as indicated here. Leave one line space before and after subheadings. Use the above mentioned rules for indentation. *Sub-subheadings:* The only difference with respect to subheadings is that sub-subheadings shall be in Italic and no lines space shall be left after sub-subheadings. Don't put numbering to heading of any level.
- **5. EQUATIONS AND SYMBOLS:** Use high quality fonts for both mathematical equations and symbols. Papers with hand-written mathematical equations and symbols are not accepted. Equations should be centered and numbered. Leave one line above and below equations. The equation number, enclosed in parentheses, is placed flush right. Equations should be cited in the text as Eq. (1).
- 6. FIGURES, TABLES AND PHOTOS: Figures and tables shall be legible and well reproducible, and photos shall be clear. Colored figures, tables and photo will be printed in Black and White. Captions shall be written directly beneath figures and photos and above tables, and shall be numbered and cited as Figure 1, Table 1 or Photo 1. They should be written in 11pt, and centered. Long captions shall be indented. Do not use capital letter or boldface types for captions. Figures, tables and photos altogether at the end of manuscripts. Figures, tables and photos should occupy the whole width of a page, and do not place any text besides figures, tables and photos. Leave one line spacing above and bottom of figures, tables and photos. Do not use small characters in figures and tables. Their typing size should be at least 9pt or larger.
- 7. UNIT: Use SI unit in the entire text, figures, and tables. If other units are used, provide it in parentheses after the SI unit as 1MPa (10.2 kgf/cm<sup>2</sup>).

- **8. CONCLUSIONS:** Write a **CONCLUSIONS** section at the end of your paper, followed by ACKNOWLEDGEMENT, APPENDICES and REFERENCES.
- 9. ACKNOWLEDGMENT: Acknowledgment should follow CONCLUSIONS.
- 10. APPENDIX: Appendix should be placed between Acknowledgment and References, if any.
- **11. REFERENCE:** All references should be listed in alphabetical order of the first author's family name. They are referred in the main text like (Richter 1935). Write the reference list as

Gutenberg, B., and Richter, C. F., 1954, Seismicity of the Earth and Associated Phenomena, 2nd ed. Princeton Univ. Press, Princeton, NJ. Richter, C. F., 1935, An instrument earthquake magnitude scale, *Bull. Seis. Soc. Am.* 25, 1-32.

(12) Sample for Inception Report

Sample for the cover sheet	Sample for the first page
THE REGION-FOCUSED TRAINING COURSE ON TSUNAMI DISASTER MITIGATION 2009 – 2010 (COURSE ID: J09-04●●) INCEPTION REPORT ON	TITLE OF THE INCEPTION REPORT by AUTHOR* ABSTRACT
1. Name of Applicant	INTRODUCTION
2. Name of Organization	<ul> <li>* the Author's organization and occupation are to be written here.</li> </ul>

**Download:** the template file that may make your editing task easier from <a href="http://iisee.kenken.go.jp/publications.htm">http://iisee.kenken.go.jp/publications.htm</a>

# ANNEX III: Syllabus of the Training Program

Category	Title	Subtitle	Contents
Orientation	Orientation	Overview of Earthquake and Disasters	Introductory lectures for Seismology Group are given by staff members of IISEE. Basic concepts and general scope of seismology, earthquake phenomena, strong motion study and seismic hazard and risk etc. are described.
		Earthquakes and Tsunami	Basic concept and overview of tsunamis, including tsunami generation, propagation and tsunami warning and hazard reduction systems.
Basic Subjects Related with Earthquake and Disasters	Information Technology Related with Earthquake and Disasters	Computer	Practice on FORTRAN programming for scientific computing is given using PC.
		Theory of Seismic Waves	Basic expressions for strain and stress relations are induced from the fundamental concept of the property of elasticity. Mathematical background of the theory of elasticity is discussed from the standpoint of specific problems such as equilibrium conditions, strain energy and transmissions of elastic waves. Reflection and refraction of plane waves are explained. P and S waves velocity distribution is discussed.
		Surface Waves	Crust and upper mantle structure inferred from surface wave methods will be explained.
		Scattering and Attenuation	Stochastic modeling and measurement of small-scale heterogeneities and intrinsic attenuation of seismic waves in the crust will be explained.
	Earthquake Phenomenology	Practice on Theory of Seismic Waves	This practice is presented for understanding the lecture, "Theory of Seismic Waves" through practices. We use TauP Toolkit developed at University of South Carolina for practices of global scale problems.
		Local Earthquake Analyses	Analyses of seismograms obtained by local networks, e. g., Wadati diagram, particle motion, apparent velocity, hypocenter determination, and magnitude.
		Analyses of Teleseismic Records	Analyses of seismograms obtained by local networks are explained. That is Wadati diagram, particle motion, apparent velocity, hypocenter determination, and magnitude.
		Earthquake Focal Mechanism	Analysis and Practical training in finding fault plane solutions is conducted by using seismic wave.
		Seismicity and Statistics	Fundamental concepts on seismic activity and earthquake statistics including prediction-oriented method analysis.
		Crust and Upper Mantle Structure	Crust and upper mantle structure inferred from explosion seismic and surface methods are explained.
		Seismic Tomography	Theory and application of seismic tomography in local, regional, and global scales are explained. Practice on computer is also given.
	Seminar of Basic Seismology		Discussion, presentation and practice for the topics of Basic Seismology
Advanced Subjects Related with Earthquake and Disasters	Earthquake Circumstance	Earthquake Generation and Prediction (1)	Earthquake dynamics and scaling laws are explained. Earthquake preparation processes and researches on short-term prediction are introduced.
		Earthquake Generation and Prediction (2)	Earthquake cycles and long- and intermediate-term prediction are introduced.
		Mathematics for Seismology	Basic concepts and technique of applied mathematics used often in the field of seismology are explained. Subjects include linear differential equations, Fourier analysis, matrix algebra and vector analysis. Practice of applied mathematics is also given.
		Crustal Deformation	Introductory course of crustal deformation including geodetic survey and continuous measurement with special references to the problems on modeling of earthquake and volcanic events and earthquake forecasting.
		Earthquake and Plate Tectonics	The basic concept of plate tectonics is presented. Methods to obtain plate motions are described.

		Earthquake Source Process	Basic models and conceptions of earthquake source processes
			are provided. The following three subjects: 1) how to describe an earthquake source mathematically, 2) how to synthesize body waves generated from the source, 3) how to determine the model parameters are explained.
	Theory of Tsunami	Tsunami Simulation	Hands-on practices to calculate tsunami waveforms and tsunami height will be given by using Linux WS and Windows PC. In order to help the interpretation of simulation results, visualization technique using mapping software are also introduced.
		Data Processing	Theory and practice of the least squares method used for seismological analyses and those of Discrete Fourier transform and digital filter are introduced.
		Practice for Theory of Tsunami	Specific tasks and subjects on Practice for Theory of Tsunami are given considering interests and backgrounds of participants.
		Tsunami Magnitude and Catalogue	History of large tsunamis in the world is explained and discussed. Existing tsunami catalogues are also studied. The size of tsunami is described by various magnitude scales. Mechanisms of tsunami earthquakes are also learned. Various tsunami generated by non-earthquake origins, such as
		Mathematics for Tsunami	landslides or volcanic activities, are also studied. Practices on applied mathematics used often in the field of tsunami are given.
		Hydrodynamics for Tsunami	The basic equation of fluid dynamics, general ocean wave theory, tsunami generation theory, and non-linear wave theory of tsunamis are explained.
		Tsunami Generation and Propagation	Tsunami generation from earthquake fault motion and tsunami propagation: Both forward and inverse modelings are explained.
		Tsunami Source	To calculate travel time of tsunami some computer practices will be given. Basic concept to estimate a tsunami source area from arrival times of observed tsunami is explained. Hands-on practices to estimate tsunami source will be also given.
		Theory of Tsunami Propagation and Inundation Simulation	This class aims to understand the logic of source program of TUNAMI-N1 and N2 (Linear and Non-linear model of tsunami propagation and run-up).
Tsunami Hazard and Risk Assessment	Tsunami Hazard Assessment	Tsunami Hazard Map	Basic concepts and outline of tsunami hazard map, method of making tsunami hazard map, use of tsunami hazard map and tsunami countermeasures in river and coastal zone in Japan are explained.
		Tsunami Disaster Prevention Administration	Tsunami disaster prevention schemes by local government are introduced. We will visit Kesen-numa city along the Sanriku coast and learn about governmental approaches for tsunami disaster prevention.
		Education of Tsunami Disaster Reduction and International Tsunami Warning	International education of tsunami disaster reduction is introduced.
		Tsunami Disaster Mitigation Policy and Risk Management in Japan	A visit to the Cabinet of Japan and the Port and Harbor Bureau to study tsunami disaster mitigation policy and risk management in Japan is conducted.
		Introduction of Tsunami Disaster Mitigation	Various features of tsunamis are explained with hydrodynamic principles. Many kinds of tsunami disasters are shown by examples in the past, and possible disasters in the future are also estimated.
		Tsunami Hazard Assessment	Basics on the tsunami hazards assessment is introduced by reviewing historical and recent tsunami hazard/disaster and providing the idea of the risk analysis. Records of tsunamis in the documentation and geological evidences are examined to estimate the frequency.
		Tsunami Damage Survey	Characteristics of tsunami damages are introduced through examples of post-tsunami survey results. Survey method is explained with the theory. After explanations for matters to be attended in field survey, survey exercise is conducted.
		Geology for Tsunami	Basic techniques for detecting geological and geomorphological evidences of paleo-tsunami and paleo- earthquake are explained. Subjects include coastal sedimentlogy, coastal geomorphology and Quaternary geochronology.

		Scenario Earthquakes	You will learn a method for setting Scenario earthquakes for tsunami situation.				
	Tsunami Countermeasures	Tsunami Protection Facility	A field study, in which the tsunami protection facilities will be observed, is included in the course. A field trip to observe the tsunami trace and to understand the damages due to tsunamis will be also conducted along the Sanriku coast.				
		Tsunami Observation	Sea level observation method and tidal data analysis are introduced. Tidal station tour is also conducted.				
		Tsunami Early Warning System and Dissemination	Outline of tsunami warning service and tsunami estimation are explained.				
		Practice for Tsunami Countermeasures	Each participant has practices so that he/she can improve understanding on the subject "Tsunami Countermeasures." IISEE staff members decide specific tasks and subjects considering interests and backgrounds of participants.				
		Tsunami Force and Tsunami Resistant Structure	Design formulas of tsunami force are introduced and some examples to computation of tsunami force are lectured. An experiment to evaluate the tsunami impulsive force is demonstrated during the course. As tsunami resistant structures, breakwaters and tidal barriers are shown as well as greenbelt techniques.				
	Special Topics	Earthquake Information	Theory and Practice on HTML for public provision of earthquake and disaster information and related topics.				
		Earthquake Observation (1)	Basic theory of seismometers is explained. A method for calibration of conventional type of short period seismometer is presented with a practical training				
		Earthquake Observation (2)	Data acquisition and seismic telemetry systems will be explained.				
Earthquake Disaster	Disaster Mitigation P	-	Disaster mitigation policy and seismic risk management of national level are discussed with practical system and laws.				
Mitigation Policy	Disaster Risk Manage		A broad understanding of disaster risk management, including prevention / preparedness before disasters and recovery / reconstruction after disasters is provided.				
	Dissemination for Earthquake Disaster Mitigation	Japanese ODA Policy and Development Support related with Disaster Mitigation	Japanese ODA policy and implementation and the international trend of development assistance related with disaster mitigation activities, e.g., poverty and gender issues are explained.				
		Dissemination for Earthquake Disaster Mitigation	Dissemination process for Earthquake Disaster Mitigation in Japan is explained through observation visits.				
		Project Cycle Management for Disaster Mitigation	Methodology and practice for Project Management Cycle and its facilitation techniques.				
Case Studies	Practice of Tsunami Disaster Mitigation Policy	Colloquium	Three colloquiums are planned: 1) for the report on the seismic observation and its results in the countries of each participant, 2) for the practice of reading scientific papers, and 3) for explaining the plan of individual study.				
		Observatory Practice	Seismic array observation is explained in the Matsushiro Seismological Observatory, Japan Meteorological Agency. The practical training of the analysis of array data is carried out.				
		Real Time Determination of Source Parameter	Real time determination of source parameters (local event) is introduced.				
		Determination of Broadband Moment Magnitude	Broadband moment magnitude (Mwp) is a magnitude determined by processing of first arriving P-waves, and has been adopted by tsunami warning centers. First, this magnitude scale is explained in the lecture. Then, computer practices to determine this magnitude are provided.				
		Study Trips	Study trip to northern part of Japan (Tohoku) for a week and to western part of Japan(Kansai) for a week.				
	Mitigation	of Earthquake Disaster	Practice for the topics of Earthquake Disaster Mitigation				
Individual Study	Individual Study		During individual study period, each participant makes a research on a specific subject and writes a paper under the direction of an instructor. The subject is selected in the list shown in "II. Description, 9.Expected Module Output and Contents".				

# Guidelines of Application Form for the JICA Training and Dialogue Program

The attached form is to be used to apply for the training and dialogue programs of the Japan International Cooperation Agency (JICA), which are implemented as part of the Official Development Assistance Program of the Government of Japan. Please complete the application form while referring to the following and consult with the respective country's JICA Office - or the Embassy of Japan if the former is not available - in your country for further information.

# **1. Parts of Application Form to be completed**

# 1) Which part of the form should be submitted?

It depends on the type of training and dialogue program you are applying for.

# >Application for Group and Region Focused Training Program

Official application and Parts A and B must be submitted.

# >>Application for Country Focused Training Program including Counterpart Training Program

Part B will be submitted. Official application and Part A need not to be submitted

# 2) How many parts does the Application Form consist of?

The Application Form consists of three parts as follows;

# Official Application

This part is to be confirmed and signed by the head of the relevant department/division of the organization which is applying.

## Part A. Information on the Applying Organization

This part is to be confirmed by the head of the relevant department/division of the organization which is applying.

# Part B. Information About the Nominee

This part is to be completed by the person who is nominated by the organization applying. <u>The applicants for Group and Region Focused Training Program are required to fill in **every** <u>item</u>. As for the applications for Country Focused Training Program including Counterpart Training Program and some specified International Dialogue Programs, it is required to fill in the designated "**required**" items as is shown on the Form.</u>

Please refer to the General Information to find out which type the training and dialogue program that your organization applies for belongs to.

## 2. How to complete the Application Form

In completing the application form, please be advised to:

- (a) carefully read the General Information (GI) for which you intend to apply, and confirm if the objectives and contents are relevant to yours,
- (b) be sure to write in the title name of the course/seminar/workshop/project accurately according to the GI, which you intend to apply,
- (c) use a typewriter/personal computer in completing the form, of which the electronic



version is available on the web site: <u>http://www.jica.go.jp/</u>, or write in <u>block</u> <u>letters</u>,

- (d) fill in the form in **English**,
- (e) use  $\square$  or "x" to fill in the ( ) check boxes,
- (f) attach a picture of the Nominee,
- (g) attach additional page(s) if there is insufficient space on the form,
- (h) prepare the necessary document(s) described in the General Information (GI), and attach it (them) to the form,
- (i) confirm the application procedure stipulated by your government, and
- (j) submit the original application form with the necessary document(s) to the responsible organization of your government according to the application procedure.

Any information that is acquired through the activities of the Japan International Cooperation Agency (JICA), such as the nominee's name, educational record, and medical history, shall be properly handled in view of the importance of safeguarding personal information.

## 3. Privacy Policy

## 1) Scope of Use

Any information used for identifying individuals that is acquired by JICA will be stored, used, or analyzed only within the scope of JICA activities. JICA reserves the right to use such identifying information and other materials in accordance with the provisions of this privacy policy.

## 2) Limitations on Use and Provision

JICA shall never intentionally provide information that can be used to identify individuals to any third party, with the following three exceptions:

- (a) In cases of legally mandated disclosure requests;
- (b) In cases in which the provider of information grants permission for its disclosure to a third party;
- (c) In cases in which JICA commissions a party to process the information collected; the information provided will be within the scope of the commissioned tasks.

## 3) Security Notice

JICA takes measures required to prevent leakage, loss, or destruction of acquired information, and to otherwise properly manage such information.



Training Programs under Technical Cooperation with the Government of Japan

# Application Form for the JICA Training and Dialogue Program

# **OFFICIAL APPLICATION**

(to be confirmed and signed by the head of the relevant department / division of the applying organization)

#### 1. Title: (Please write down as shown in the General Information)

2. Number: (Please write down as shown in the General Information)									
J	0		-						

### 3. Country Name:

### 4. Name of Applying Organization:

#### 5. Name of the Nominee(s):

1)	3)
2)	4)

Our organization hereby applies for the training and dialogue program of the Japan International Cooperation Agency and proposes to dispatch qualified nominees to participate in the programs.

Date:			Signature:		
Name:					
Designation / I	Position				
Department / Division			Official Stamp		
Office Address	and	Address:			
Contact Inform	nation	Telephone:	Fax:	E-mail	:

#### Confirmation by the organization in charge (if necessary)

I have examined the documents in this form and found them true. Accordingly I agree to nominate this person(s) on behalf of our government.

Date:	Signature:	
Name:		
Designation / Position		Official Stamp
Department / Division		



# Part A: Information on the Applying Organization

(to be confirmed by the head of the department / division)

# 1. Profile of Organization

### 1) Name of Organization:

2) The mission of the Organization and the Department / Division:

# 2. Purpose of Application

1) Current Issues: Describe the reasons for your organization claiming the need to participate in the training and dialogue program, with reference to issues or problems to be addressed.

2) Objective: Describe what your organization intends to achieve by participating in the training and dialogue program.



3) Future Plan of Actions: Describe how your organization shall make use of the expected achievements, in addressing the said issues or problems.

4) Selection of the Nominee: Describe the reason(s) the nominee has been selected for the said purpose, referring to the following view points; 1) Course requirement, 2) Capacity /Position, 3) Plans for the candidate after the training and dialogue program, 4) Plan of organization and 5) Others.



# Part B: Information about the Nominee

#### (to be completed by the Nominee)

NOTE>>>The applicants for Group and Region Focused Training Program are required to fill in "Every Item". As for the applications for Country Focused Training Program including Counterpart Training Program and some specified International Dialogue Programs, it is required to fill in the designated "**required**" items as is shown below.

#### 1. Title: (Please write down as shown in the General Information) (required)

2. Number: (Please write down as shown in the General Information) (required)										
J	0		-							

Attach the nominee's photograph (taken within the last three months) <u>here</u> Size: 4x6 (Attach to the documents to be submitted.)

#### 3. Information about the Nominee(nos. 1-9 are all required)

### 1) Name of Nominee (as in the passport)

Family Name

Fi	First Name													
Μ	Middle Name													
														L

2) Nationality			5) Date of	of Birth (p	lease write	e out the
(as shown in the passport)			month in	n English a	ıs in "Apri	I")
3) Sex	() Male	() Female	Date	Month	Year	Age
4) Religion						

#### 6) Present Position and Current Duties

Organization							
Department / Division							
Present Position							
Date of employment by the	Date	Month	Year	Date of assignment to the	Date	Month	Year
present organization				present position			

#### 7) Type of Organization

() National Governmental	() Local Governmental	( ) Public Enterprise
( ) Private (profit)	() NGO/Private (Non-profit)	() University
() Other (	)	

#### 8) Outline of duties: Describe your current duties



Т

# 9) Contact Information

	Address:							
Office	TEL:	Mobile (Cell Phone):						
	FAX:	E-mail:						
	Address:							
Home	TEL:	Mobile (Cell Phone):						
	FAX:	E-mail:						
	Name:							
	Relationship to you:							
Contact person in emergency	Address:							
In enlergency	TEL:	Mobile (Cell Phone):						
	FAX:	E-mail:						

## 10) Others (if necessary)

# 4. Career Record

# 1) Job Record (After graduation)

	City/	Period			
Organization	Country	From	То	Position or Title	Brief Job Description
	Country	Month/Year	Month/Year		

# 2) Educational Record (Higher Education)(required)

	City/	Per	riod		
Institution	Country	From	То	Degree obtained	Major
	Country	Month/Year	Month/Year		



**Version 071011** 

3) Training or Study in Foreign Countries; please write your past visits to Japan specifically as much as possible, if any.

	/				
	City/	Per	riod		
Institution	Country	From	То	Field of Study / Program Title	
	Country	Month/Year	Month/Year		

### 5. Language Proficiency (required)

1) Language to be used in the progra	am (as in GI)			
Listening	() Excellent	()Good	()Fair	()Poor
Speaking	() Excellent	()Good	()Fair	()Poor
Reading	() Excellent	()Good	()Fair	() Poor
Writing	() Excellent	( ) Good	()Fair	() Poor
Certificate (Examples: TOEFL, TOEIC)				
2) Mother Tongue				
3)Other languages ( )	() Excellent	( ) Good	()Fair	( ) Poor

<sup>1</sup> Excellent: Refined fluency skills and topic-controlled discussions, debates & presentations. Formulates strategies to deal with various essay types, including narrative, comparison, cause-effect & argumentative essays.

<sup>1</sup> Good: Conversational accuracy & fluency in a wide range of situations: discussions, short presentations & interviews.
 <sup>2</sup> Compound complex sentences. Extended essay formation.
 <sup>3</sup> Fair: Broader range of language related to expressing opinions, giving advice, making suggestions. Limited compound compound complex sentences.

and complex sentences & expanded paragraph formation. <sup>1</sup> Poor: Simple conversation level, such as self-introduction, brief question & answer using the present and past tenses.



#### 6. Expectation on the applied training and dialogue program

1) Personal Goal: Describe what you intend to achieve in the applied training and dialogue program in relation to the organizational purpose described in Part A-2.

2) Relevant Experience: Describe your previous vocational experiences which are highly relevant in the themes of the applied training and dialogue program. (required)

3) Area of Interest: Describe your subject of particular interest with reference to the contents of the applied training and dialogue program. (required)

#### \*7. Declaration (to be signed by the Nominee) (required)

I certify that the statements I made in this form are true and correct to the best of my knowledge.

- If accepted for the program, I agree:
- (a) not to bring or invite any member of my family (except for the program whose period is one year or more),
- (b) to carry out such instructions and abide by such conditions as may be stipulated by both the nominating government and the Japanese Government regarding the program,
- (c) to follow the program, and abide by the rules of the institution or establishment that implements the program,
- (d) to refrain from engaging in political activity or any form of employment for profit or gain,
- (e) to return to my home country at the end of the activities in Japan on the designated flight schedule arranged by JICA,
- (f) to discontinue the program if JICA and the applying organization agree on any reason for such discontinuation.
- (g) to consent to waive exercise of my copyright holder's rights for documents or products that are produced during the course of the project, against duplication and/or translation by JICA, as long as they are used for the purposes of the program.

Date:	Signature:
	Print Name:



)

# MEDICAL HISTORY AND EXAMINATION

#### 1. Present Status

(a) Do you currently use any drugs for the treatment of a medical condition? (Give name & dosage.)

( ) No	( ) Yes >> Name of Medication ( ), Quantity			), Quantity		
	(	)				
(b) Are yo	(b) Are you pregnant?					
( ) No	( ) Yes ( months )					
(c) Are yo	u allergic to any	medication or foo	d?			
( ) No	( ) Yes >>>	( )	(	) Food	(	) Other:
		Medication				
(d) Please	(d) Please indicate any needs arising from disabilities that might necessitate additional support or facilities.					

(

Note: Disability does not lead to exclusion of persons with disability from the program. However, upon the situation, you may be directly inquired by the JICA official in charge for a more detailed account of your condition.

#### 2. Medical History

#### (a) Have you had any significant or serious illness? (If hospitalized, give place & dates.)

Past:	( ) N	o (	) Yes>>Name of illness (	), Place & dates
		(	)	
Present:	( ) N	o (	) Yes>>Present Condition	
		(		)
(b) Have y	/ou ever	been a	a patient in a mental hospital or	been treated by a psychiatrist?
Past:	( ) N	o (	) Yes>>Name of illness (	), Place & dates
		(	)	
Present:	( ) N	o (	) Yes>>Present Condition	

#### (c) High blood pressure

Past:	( ) No	( ) Yes		
Present:	( ) No	() Yes>>Present Condition (	) mm/Hg to (	) mm/Hg

(d) Diabet	(d) Diabetes (sugar in the urine)						
Past:	(	) No	( ) Yes				
Present:			(	)	Yes>>Present		Condition
	(	) No	(			)	
			Are you taking any m	edicine or insulin?		( ) No	() Yes

(e) Past History: What illness(es) have you had previously?

() Stomach and	( ) Liver Disease	( ) Heart Disease	( ) Kidney Disease		
Intestinal Disorder					
( ) Tuberculosis	() Asthma	() Thyroid Problem			
( ) Infectious Disease >:	( ) Infectious Disease >>> Specify name of illness				
(		)			
( ) Other >>> Specify					
(			)		

#### (e') Has this disease been cured?

		( ) No (Specify name of illness)	
(	) Yes	Present Condition:	
		(	)



#### 3. Other: Any restrictions on food and behavior due to health or religious reasons?

I certify that I have read the above instructions and answered all questions truthfully and completely to the best of my knowledge.

I understand and accept that medical conditions resulting from an undisclosed pre-existing condition may not be financially compensated by JICA and may result in termination of the program.

Date:	Signature:
	Print Name: